Nyack Water Department

2020 QUARTER 2 SAMPLING REPORT



ANALYTICAL REPORT

Lab Number:	L2009619
Client:	Envirotest Laboratories Inc. 315 Fullerton Avenue Newburgh, NY 12550
ATTN: Phone:	Debra Bayer (845) 562-0890
Project Name:	Not Specified
Project Number:	42001382
Report Date:	03/16/20

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Serial_No:03162011:25

 Lab Number:
 L2009619

 Report Date:
 03/16/20

Project Name:	Not Specified
Project Number:	42001382

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2009619-01	INTAKE (420-168400-1)	DW	VILLAGE OF NYACK WATER DEPT.	03/02/20 10:00	03/04/20
L2009619-02	INTAKE FIELD BLANK (420- 168400-2)	DW	VILLAGE OF NYACK WATER DEPT.	03/02/20 10:00	03/04/20
L2009619-03	TREATMENT PLANT (420- 168400-3)	DW	VILLAGE OF NYACK WATER DEPT.	03/02/20 10:00	03/04/20
L2009619-04	TREATMENT PLANT FIELD BLANK (420-168400-4)	DW	VILLAGE OF NYACK WATER DEPT.	03/02/20 10:00	03/04/20



Serial_No:03162011:25

Project Name: Not Specified Project Number: 42001382 Lab Number: L2009619 Report Date: 03/16/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Alycia Mogayzel

Authorized Signature:

Title: Technical Director/Representative

Date: 03/16/20



ORGANICS



SEMIVOLATILES



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		Serial_No:	03162011:25
Project Name:	Not Specified	Lab Number:	L2009619
Project Number:	42001382	Report Date:	03/16/20
	SAMPLE RESULTS		
Lab ID:	L2009619-01	Date Collected:	03/02/20 10:00
Client ID:	INTAKE (420-168400-1)	Date Received:	03/04/20
Sample Location:	VILLAGE OF NYACK WATER DEPT.	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Dw	Extraction Method:	EPA 537
Analytical Method:	122,537	Extraction Date:	03/06/20 07:15
Analytical Date:	03/11/20 23:37		
Analyst:	RS		

Parameter	Result Q	ualifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 53	7 - Mansfield Lab				
Perfluorooctanoic Acid (PFOA)	9.98	ng/l	1.74		1
Perfluorooctanesulfonic Acid (PFOS)	5,38	ng/l	1.74		1
PFOA/PFOS, Total	15.4	ng/l	1.74		1
Surrogate		% Recovery	Qualifier	Acc C	eptance riteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (130	C-PFHxA)	99			70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (130	C-PFDA)	125			70-130
N-Deuterioethylperfluoro-1-octanesulfona	midoacetic Acid (d5-NEtFOS/	AA) 93			70-130



		Serial_No:	03162011:25
Project Name:	Not Specified	Lab Number:	L2009619
Project Number:	42001382	Report Date:	03/16/20
	SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2009619-02 INTAKE FIELD BLANK (420-168400-2) VILLAGE OF NYACK WATER DEP T .	Date Collected: Date Received: Field Prep:	03/02/20 10:00 03/04/20 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Dw 122,537 03/12/20 00:11 RS	Extraction Method: Extraction Date:	EPA 537 03/06/20 07:15

Parameter	Result Q	ualifier Units	RL	MDL	Dilution Factor	
Perfluorinated Alkyl Acids by EPA 537	- Mansfield Lab					
Perfluorooctanoic Acid (PFOA)	ND	ng/l	1.80		1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/l	1.80		1	
PFOA/PFOS, Total	ND	ng/l	1.80		1	
Surrogate		% Recovery	Qualifier	Acc C	eptance riteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-F	PFHxA)	104			70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-F	PFDA)	102			70-130	
N-Deuterioethylperfluoro-1-octanesulfonami	doacetic Acid (d5-NEtFOS/	AA) 74			70-130	



		Serial_No:	03162011:25
Project Name:	Not Specified	Lab Number:	L2009619
Project Number:	42001382	Report Date:	03/16/20
	SAMPLE RESULTS		
Lab ID:	L2009619-03	Date Collected:	03/02/20 10:00
Client ID:	TREATMENT PLANT (420-168400-3)	Date Received:	03/04/20
Sample Location:	VILLAGE OF NYACK WATER DEPT.	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Dw	Extraction Method:	EPA 537
Analytical Method:	122,537	Extraction Date:	03/06/20 07:15
Analytical Date:	03/12/20 00:28		
Analyst:	RS		

Parameter	Result Q	ualifier Units	RL	MDL.	Dilution Factor	
Perfluorinated Alkyl Acids by EPA 537	- Mansfield Lab					
Perfluorooctanoic Acid (PFOA)	9.57	ng/l	1.78		1	
Perfluorooctanesulfonic Acid (PFOS)	5.39	ng/l	1.78		1	
PFOA/PFOS, Total	15.0	ng/l	1.78		1	
Surrogate		% Recover	y Qualifier	Acc C	eptance riteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-	PFHxA)	91			70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-	PFDA)	107			70-130	
N-Deuterioethylperfluoro-1-octanesulfonan	nidoacetic Acid (d5-NEtFOS	AA) 76			70-130	



		Serial_No:	03162011:25
Project Name:	Not Specified	Lab Number:	L2009619
Project Number:	42001382	Report Date:	03/16/20
	SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2009619-04 TREATMENT PLANT FIELD BLANK (420-168400-4) VILLAGE OF NYACK WATER DEPT.	Date Collected: Date Received: Field Prep:	03/02/20 10:00 03/04/20 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Dw 122,537 03/12/20 01:02 RS	Extraction Method: Extraction Date:	EPA 537 03/06/20 07:15

Parameter	Result Q	ualifier Unit	S	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Ma	insfield Lab					
Perfluorooctanoic Acid (PFOA)	ND	ng/	I	1.85		1
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/	I	1.85		1
PFOA/PFOS, Total	ND	ng/	l	1.85		1
Surrogate		% Re	covery	Qualifier	Accept Crite	ance eria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHx	A)	1	00		70-	130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	1	03		70-	130
N-Deuterioethylperfluoro-1-octanesulfonamidoac	etic Acid (d5-NEtFOS	AA)	79		70-	130



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Serial_No:03162011:25

Project Name:	Not Specified		Lab Number:	L2009619
Project Number:	42001382		Report Date:	03/16/20
		Method Blank Analysis		

Method Blank Analysis Batch Quality Control

Analytical Method:	122,537
Analytical Date:	03/11/20 22:46
Analyst:	RS

Extraction Method: EPA 537 Extraction Date: 03/06/20 07:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA	537 - Mansfi	eld Lab for	sample(s):	01-04	Batch: WG1347915-1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	
PFOA/PFOS, Total	ND		ng/l	2.00	

		Acceptance
Surrogate	%Recovery Qua	lifier Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	99	70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	101	70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85	70-130



Lab Control Sample Analysis Batch Quality Control

Project Name: Not Specified Project Number: 42001382

Lab Number: L2009619 Report Date: 03/16/20

	LCS		LCSD		%Recovery			RPD
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Perfluorinated Alkyl Acids by EPA 537 - Ma	nsfield Lab Assoc	iated sample	e(s): 01-04 Batc	h: WG134	47915-2 WG1347	915-3		
Perfluorooctanoic Acid (PFOA)	94		100		70-130	6		30
Perfluorooctanesulfonic Acid (PFOS)	75		76		70-130	1		30

	LCS		LCSD		Acceptance	
Surrogate	%Recovery	Qual	%Recovery	Qual	Criteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	100		103		70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	103		106		70-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		84		70-130	



Matrix Spike Analysis Batch Quality Control

Lab Number: Project Name: Not Specified L2009619 Report Date: Project Number: 03/16/20 42001382

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by E (420-168400-1)	EPA 537 - Ma	nsfield Lab	Associated s	sample(s): 01-04	QC Ba	tch ID: WG	61347915-4	QC San	ple: L2009	619-01	Client I	D: INTAKE
Perfluorooctanoic Acid (PFOA)	9.98	1.74	12.0	116		-	-		70-130	-		30
Perfluorooctanesulfonic Acid (PFOS)	5.38	1.74	7.12	100		-	-		70-130	-		30

	MS	MSD	Acceptance
Surrogate	% Recovery Qualifie	er % Recovery Qualifier	Criteria
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	91		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	118		70-130
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	96		70-130



Project Name: Project Number:	Not Specified 42001382	Ł	I	Lab Dup Batch	licate Ar Quality Cor	nalysis ^{htrol}		Lab Numbe Report Dat	e:	L2009619 03/16/20
Parameter			Native Sample	Duplicat	e Sample	Units	RPD	Quai	RPD Limits	
Perfluorinated Alkyl Acids TREATMENT PLANT (42	s by EPA 537 20-168400-3)	- Mansfield Lab	Associated sample(s):	: 01-04 G	C Batch ID:	WG1347915-	5 QC Sa	mple: L20096	19-03 C	lient ID:
Perfluorooctanoic Acid (PF	(AC		9.57	9.	26	ng/l	3		30	
Perfluorooctanesulfonic Aci	d (PFOS)		5.39	5.	04	ng/l	7		30	
PFOA/PFOS, Total			15.0	1-	4.3	ng/l	5		30	
Surrogate				%Recover	y Qualifier	%Recovery	Qualifier	Acceptance Criteria		
Perfluoro-n-[1,2-130	C2]hexanoic Acid	(13C-PFHxA)		91	_	93		70-130		
Perfluoro-n-[1,2-130	C2]decanoic Acid	(13C-PFDA)		107		109		70-130		

76

87

70-130



N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)

Project Name:Not SpecifiedProject Number:42001382

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Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2009619-01A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	А	NA		4.0	Y	Absent		A2-537-PFOA/PFOS(14)
L2009619-01B	2 Plastic Trizma/1 Plastic/1 H20+Trizma	А	NA		4.0	Y	Absent		A2-537-PFOA/PFOS(14)
L2009619-02A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	A	NA		4.0	Y	Absent		A2-537-PFOA/PFOS(14)
L2009619-03A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	A	NA		4.0	Y	Absent		A2-537-PFOA/PFOS(14)
L2009619-03B	2 Plastic Trizma/1 Plastic/1 H20+Trizma	A	NA		4.0	Y	Absent		A2-537-PFOA/PFOS(14)
L2009619-04A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	А	NA		4.0	Y	Absent		A2-537-PFOA/PFOS(14)



Project Name: Not Specified

Project Number: 42001382

Serial_No:03162011:25 Lab Number: L2009619 Report Date: 03/16/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number	
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)			
Perfluorooctadecanoic Acid	PFODA	16517-11-6	
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5	
Perfluorotetradecanoic Acid	PFTA	376-06-7	
Perfluorotridecanoic Acid	PFTrDA	72629-94-8	
Perfluorododecanoic Acid	PFDoA	307-55-1	
Perfluoroundecanoic Acid	PFUnA	2058-94-8	
Perfluorodecanoic Acid	PFDA	335-76-2	
Perfluorononanoic Acid	PFNA	375-95-1	
Perfluorooctanoic Acid	PFOA	335-67-1	
Perfluoroheptanoic Acid	PFHpA	375-85-9	
Perfluorohexanoic Acid	PFHxA	307-24-4	
Perfluoropentanoic Acid	PFPeA	2706-90-3	
Perfluorobutanoic Acid	PFBA	375-22-4	
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)			
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5	
Perfluorodecanesulfonic Acid	PFDS	335-77-3	
Perfluorononanesulfonic Acid	PFNS	68259-12-1	
Perfluorooctanesulfonic Acid	PFOS	1763-23-1	
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8	
Perfluorohexanesulfonic Acid	PFHxS	355-46-4	
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4	
Perfluorobutanesulfonic Acid	PFBS	375-73-5	
FLUOROTELOMERS			
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4	
PERFLUOROALKANE SULFONAMIDES (FASAs)			
Perfluorooctanesulfonamide	FOSA	754-91-6	
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2	
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8	•
PERFLUOROALKANE SULFONYL SUBSTANCES			
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2	
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6	
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9	
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6	
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4	
CHLORO-PERFLUOROALKYL SULFONIC ACIDS			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9	
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9CI-PF3ONS	756426-58-1	



Project Name:	Not Specified
Due to a fi Numera la sur	40004000

Project Number: 42001382

Lab Number: L2009619

Report Date: 03/16/20

GLOSSARY

Acronyms

DL	 Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCSD	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCDD	- Laboratory Control Sample Duplicate, Refer to ECS.
LLD	analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	 Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	 Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.
Footnotes	

Report Format: Data Usability Report



Project Name:	Not Specified	Lab Number:	L2009619
Project Number:	42001382	Report Date:	03/16/20

¹

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum. Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benzo(a)anthracene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration of the analyte at less than ten times (10x) the concentration of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For NDD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For NJ-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For NJ-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit for NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acctone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report



Serial_No:03162011:25

Project Name:Not SpecifiedProject Number:42001382

Data Qualifiers

than 5x the RL. (Metals only.)

- $R \quad \ \ \,$ Analytical results are from sample re-analysis.
- \mathbf{RE} Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.

Lab Number: L2009619 Report Date: 03/16/20



Serial_No:03162011:25

Project Name:Not SpecifiedProject Number:42001382

 Lab Number:
 L2009619

 Report Date:
 03/16/20

REFERENCES

122 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.
Mansfield Facility
SM 2540D: TSS
EPA 8082A: <u>NPW</u>: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. EPA 245.1 Hg. SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

EnviroTest Laboratories 315 Fullerion Avenue

Newburgh, NY 12550

Phone (845) 562-0890 Fax (845) 562-0841

315/20

2009619 Serial_No:03162011:25

Chain of Custody Record

EnviroTest Laboratories Inc.

Client Information (Sub Contract Lab)	Southe.			Lab Bay	Lab FM Bayer, Debra		Camer Intidung Notisy			420-11699-1	
Jieni Contact	Friare			E Ma dba	E-Max dbaver@envirotest/aboratories.com						Page Page 1 of 1
Jonpany Naba Acalutara				Terro			Analys	is Requeste	d		STL Job # 420-158400-1
doress	Due Date Request	led:				TT		no nequeste	TTT		Preservation Codes:
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Mate. Zci MA, 01581	Stor	144	3171320	0							E - NaHSO4 Q - Na2SO3
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mari	WO #				2 2	PF(I-lice U-Acetone J-Di Water V-MCAA
roed Name Zilana of Nuark Water Department	Project # 42001382		-		٤	OA ar				telmen	K-EDTA W-ph 4-5 L-EDA Z-omer (specify)
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Sample Renulcation Chent ID (Cab ID)	Sample Date		Preserva	tion Code:	XX	-				X	opecial instructions more.
Intake (420-168400-1)	3/2/20	10.00	De	Water	Π	x				2	unpres
Intake Field Blank (420-168400-2)	3/2/20	10:00	1	Water		x				1	Unpres
Treatment Plant (420-168400-3)	3/2/20	10.00		Water		x				2	Trizma
Treatment Plant Field Blank (420-168400-4)	3/2/20	10:00	J.	Water		x				1	Trizma
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			321-	20.03							
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Possible Hazard Identification			1		Sam	ple Dispo	osal (A fee m	ay be assesse	d if samples an	e retain	ed longer than 1 month)
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Nyack Water Department

2020 QUARTER 3 SAMPLING REPORT



ANALYTICAL REPORT

Lab Number:	L2038494
Client:	Envirotest Laboratories Inc. 315 Fullerton Avenue Newburgh, NY 12550
ATTN: Phone:	Debra Bayer (845) 562-0890
Project Name:	VILLAGE OF NYACK WATER DEPT.
Project Number:	42001382
Report Date:	09/29/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Serial_No:09292010:25

Project Name:VILLAGE OF NYACK WATER DEPT.Project Number:42001382

 Lab Number:
 L2038494

 Report Date:
 09/29/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2038494-01	RAW INTAKE (420-180665-1)	DW	VILLAGE OF NYACK WATER DEPT.	09/14/20 08:30	09/15/20
L2038494-02	RAW INTAKE TRIP BLANK (420-180665-2)	DW	VILLAGE OF NYACK WATER DEPT.	09/14/20 08:30	09/15/20
L2038494-03	LAB SINK (420-180665-3)	DW	VILLAGE OF NYACK WATER DEPT.	09/14/20 08:30	09/15/20
L2038494-04	LAB SINK TRIP BLANK (420- 180665-4)	DW	VILLAGE OF NYACK WATER DEPT.	09/14/20 08:30	09/15/20



Project Name:VILLAGE OF NYACK WATER DEPT.Project Number:42001382

 Lab Number:
 L2038494

 Report Date:
 09/29/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name: VILLAGE OF NYACK WATER DEPT. Project Number: 42001382

Lab Number: L2038494 **Report Date:** 09/29/20

Case Narrative (continued)

Sample Receipt

L2038494-02 and -04: The sample was received in an inappropriate container for the PFOA/PFOS via EPA 537 analysis. The sample is considered a trip blank rather than a field blank. Per client request the sample is reported as a trip blank.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Juren E Dil Susan O' Neil

Title: Technical Director/Representative

Date: 09/29/20



ORGANICS



SEMIVOLATILES



		Serial_No:	09292010:25
Project Name:	VILLAGE OF NYACK WATER DEPT.	Lab Number:	L2038494
Project Number:	42001382	Report Date:	09/29/20
	SAMPLE RESULTS		
Lab ID:	L2038494-01	Date Collected:	09/14/20 08:30
Client ID:	RAW INTAKE (420-180665-1)	Date Received:	09/15/20
Sample Location:	VILLAGE OF NYACK WATER DEPT.	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Dw	Extraction Method:	EPA 537
Analytical Method:	122,537	Extraction Date:	09/22/20 07:00
Analytical Date:	09/24/20 19:35		
Analyst:	SH		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Man	sfield Lab					
Perfluorooctanoic Acid (PFOA)	9.95		ng/l	1.76		1
Perfluorooctanesulfonic Acid (PFOS)	6.49		ng/l	1.76		1
Surrogate			% Recovery	Qualifier	Acce Cri	ptance iteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)			70		7	0-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)			71		7	0-130

90

N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)



70-130

		Serial_No:	09292010:25
Project Name:	VILLAGE OF NYACK WATER DEPT.	Lab Number:	L2038494
Project Number:	42001382	Report Date:	09/29/20
	SAMPLE RESULTS		
Lab ID:	L2038494-02	Date Collected:	09/14/20 08:30
Client ID:	RAW INTAKE TRIP BLANK (420-180665-2)	Date Received:	09/15/20
Sample Location:	VILLAGE OF NYACK WATER DEPT.	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Dw	Extraction Method:	EPA 537
Analytical Method:	122,537	Extraction Date:	09/22/20 07:00
Analytical Date:	09/24/20 19:44		
Analyst:	SH		

Parameter	Result Qu	alifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 53	7 - Mansfield Lab				
Perfluorooctanoic Acid (PFOA)	ND	ng/l	1.84		1
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/l	1.84		1
Surrogate		% Recovery	Qualifier	Acce Ci	eptance riteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C	Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)			-	70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)		73		-	70-130
N-Deuterioethylperfluoro-1-octanesulfona	midoacetic Acid (d5-NEtFOSA	A) 85		-	70-130



		Serial_No:	09292010:25
Project Name:	VILLAGE OF NYACK WATER DEPT.	Lab Number:	L2038494
Project Number:	42001382	Report Date:	09/29/20
	SAMPLE RESULTS		
Lab ID:	L2038494-03	Date Collected:	09/14/20 08:30
Client ID:	LAB SINK (420-180665-3)	Date Received:	09/15/20
Sample Location:	VILLAGE OF NYACK WATER DEPT.	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Dw	Extraction Method:	EPA 537
Analytical Method: Analytical Date: Analyst:	122,537 09/24/20 19:53 SH	Extraction Date:	09/22/20 07:00

Parameter	Result Qu	alifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 53	7 - Mansfield Lab				
Perfluorooctanoic Acid (PFOA)	8.20	ng/l	1.79		1
Perfluorooctanesulfonic Acid (PFOS)	5.08	ng/l	1.79		1
Surrogate		% Recovery	Qualifier	Acce Cr	ptance iteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C	-PFHxA)	70		7	/0-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C	71		7	0-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)		A) 82		7	/0-130



	Serial_No:	09292010:25
VILLAGE OF NYACK WATER DEPT.	Lab Number:	L2038494
42001382	Report Date:	09/29/20
SAMPLE RESULTS		
L2038494-04 R	Date Collected:	09/14/20 08:30
LAB SINK TRIP BLANK (420-180665-4)	Date Received:	09/15/20
VILLAGE OF NYACK WATER DEPT.	Field Prep:	Not Specified
Dw	Extraction Method:	EPA 537
122,537	Extraction Date:	09/22/20 07:00
09/25/20 08:33		
SH		
	VILLAGE OF NYACK WATER DEPT. 42001382 SAMPLE RESULTS L2038494-04 R LAB SINK TRIP BLANK (420-180665-4) VILLAGE OF NYACK WATER DEPT. Dw 122,537 09/25/20 08:33 SH	VILLAGE OF NYACK WATER DEPT. Lab Number: 42001382 Report Date: SAMPLE RESULTS L2038494-04 R L2038494-04 R LAB SINK TRIP BLANK (420-180665-4) Date Collected: VILLAGE OF NYACK WATER DEPT. Date Received: Field Prep: Field Prep: Dw 122,537 09/25/20 08:33 SH

Parameter	Result Qua	alifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537	- Mansfield Lab				
Perfluorooctanoic Acid (PFOA)	ND	ng/l	1.80		1
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/l	1.80		1
Surrogate		% Recovery	Qualifier	Acce Cr	ptance iteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-	PFHxA)	84		7	70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-	PFDA)	77		7	70-130
N-Deuterioethylperfluoro-1-octanesulfonan	nidoacetic Acid (d5-NEtFOSA	A) 84		7	70-130



Project Name:	VILLAGE OF NYACK WATER DEPT.	Lab Number:	L2038494
Project Number:	42001382	Report Date:	09/29/20
	Method Blank Analysis		

Method Blank Analysis Batch Quality Control

Analytical Method:	122,537	Extraction Method:	EPA 537
Analytical Date:	09/24/20 18:17	Extraction Date:	09/22/20 07:00
Analyst:	SH		

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 5	37 - Mansf	ield Lab for	sample(s):	01-04	Batch: WG1412759-1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	

		Acceptance			
Surrogate	%Recovery	Qualifier	Criteria		
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	76		70-130		
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	76		70-130		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	95		70-130		



Lab Control Sample Analysis Batch Quality Control

Project Number: 42001382

 Lab Number:
 L2038494

 Report Date:
 09/29/20

	LCS		LCSD %Recovery				RPD		
Parameter	%Recovery	Qual	%Recovery	Qual Limits		RPD	Qual	Limits	
		·				750.0			
Perfluorinated Alkyl Acids by EPA 537 -	Mansfield Lab Assoc	lated sample(s): 01-04 Batc	h: WG147	12759-2 WG1412	759-3			
Perfluorooctanoic Acid (PEOA)	104		114		70-130	9		30	
					10.00	Ŭ			
Perfluorooctanesulfonic Acid (PFOS)	100		85		70-130	16		30	

	LCS		LCSD		Acceptance	
Surrogate	%Recovery	Qual	%Recovery	Qual	Criteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	90		102		70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	90		98		70-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		88		70-130	



Project Name: VILLAGE OF NYACK WATER DEPT. Project Number: 42001382

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container Inio	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2038494-01A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	А	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)
L2038494-01B	2 Plastic Trizma/1 Plastic/1 H20+Trizma	А	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)
L2038494-02A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	А	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)
L2038494-03A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	А	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)
L2038494-03B	2 Plastic Trizma/1 Plastic/1 H20+Trizma	А	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)
L2038494-04A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	А	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)

YES


Project Name: VILLAGE OF NYACK WATER DEPT.

Project Number: 42001382

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHXDA	67905-19-5
Perfluorotetradecanoic Acid		376-06-7
Periluorotindecanoic Acid	PF11DA DEDoA	72629-94-8
Periluorouodecanoic Acid	PEUpA	307-55-1
		2000-94-0
		335-70-2
Perfluorooctanoic Acid	PEOA	335-67-1
Perfluorobentanoic Acid	PFHnA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKTE SULFONIC ACIDS (PFSAS)		70700.00 5
Perfluorodocanesultonic Acid	PEDS	79760-39-3
Perfluorononanesulfonic Acid	PENS	69250 12 1
	PEOS	1763-23-1
Perfluorobentanesulfonic Acid	PEHnS	375-02-8
Perfluorohexanesulfonic Acid	PFHyS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
	-	
	10.0570	100000 00 0
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H 1H 2H 2H Derfluoroectenegultenia Asid	6.2F15	39108-34-4
1H 1H 2H 2H Parfluoroboxanosulfonic Acid	0.2F13 4:2ETS	27019-97-2
	4.2113	15/124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9CI-PF3ONS	756426-58-1
PERELUOROETHER SULFONIC ACIDS (PEESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PEEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6



Project Name: VILLAGE OF NYACK WATER DEPT.

Project Number: 42001382

Lab Number: L2038494

Report Date: 09/29/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.
Footnotes	

Report Format: Data Usability Report



Project Name: VILLAGE OF NYACK WATER DEPT.

Project Number: 42001382

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 Report Date:
 09/29/20

1

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum. Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For NJ-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte applies to associated field samples that have detectable concentrations of the analyte applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- **F** The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- **ND** Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: Data Usability Report



L2038494

09/29/20

Project Name:VILLAGE OF NYACK WATER DEPT.Lab Number:Project Number:42001382Report Date:

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- **S** Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Project Name:VILLAGE OF NYACK WATER DEPT.Project Number:42001382

 Lab Number:
 L2038494

 Report Date:
 09/29/20

REFERENCES

122 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.
Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 1-Methylnaphthalene.
SPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs **EPA 625.1**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

01/16/20

62038494

Serial_No:09292010:25 EnviroTest Laboratories Inc.

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01/19/10

MAL

Chain of Custody Record

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Newburgh, NY 12550

EnviroTest Laboratories

one (845) 562-0890 Fax (845) 562-0641	Sampler			Lab PM: Bayer,	Debra			Calliner Housing	and al.	420-12261.1
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Raw Intake Field Blank (420-180665-2)	9/14/20	8:30	-	Water		X				2
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Nyack Water Department

2020 QUARTER 4 SAMPLING REPORT

(1 OF 2)



November 12, 2020

Gilbert Francois Village of Nyack WTP Re: PFNA/PFOS/PFOA

Dear Mr. Francois,

Per your request, this letter is being written as a follow up to the samples EQC collected at the Village of Nyack Water Treatment Plant on 13-Oct-2020 and again on 30-Oct-2020, both for the analysis of PFNA, PFOS, and PFOA.

For each sample collected, there was an associated Field Blank submitted as well. Based on the results of the samples collected on 13-Oct-2020, EQC requested that the lab review the labels on the bottles. It appears that the sample labels were reversed between the sample and the blank bottles.

Based on this apparent label issue, a resample was requested. Additional samples were collected on 30-Oct-2020 by EQC.

The results of the resamples appear to confirm the bottle labeling issue that occurred on 13-Oct-2020.

Please let me know if you have any further questions or issues.

Thank you,

Erin Dougherty Project Manager Eurofins QC, LLC 215-355-3900, extension 3357 Erin.Dougherty@Eurofinset.com

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 702 Electronic Drive Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-8485-1

Client Project/Site: Village of Nyack - PFC Revision: 2

For:

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert Francois

Erin Do

Authorized for release by: 3/1/2021 10:50:59 AM

Erin Dougherty, Project Administrator (215)355-3900 Erin.Dougherty@eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

..... Links **Review your project** results through **Total** Access Have a Question? Ask-The Expert Visit us at:

www.eurofinsus.com/Env

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

- Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

• Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

• Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

• EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

• Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

• The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Zachary Smith (Water Microbiology).

Erin Dougherty Project Administrator 3/1/2021 10:50:59 AM

1 2 3 4 5 6 7

Job ID: 630-8485-1

Laboratory: Eurofins QC, LLC – Horsham, PA

Narrative

Job Narrative 630-8485-1

REVISION

The report being provided is a revision of the original report sent on 10/22/2020. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Report revision history

The report being provided is a revision of the original report sent on 10/22/2020. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Revision 1 - 3/1/2021 - Reason - Certification updated to New York ...

Receipt

The samples were received on 10/13/2020 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.7°C

LCMS

Method 537.1_DW: The following sample(s) were found to contain residual chlorine: POE (630-8485-1).

Method 537.1_DW: The recovery for the internal(s) and surrogate(s) in the following sample: BLANK (630-8485-2) is outside QC acceptance limits. Sufficient sample is not available to re-extract this sample.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset II
630-8485-1	POE	Drinking Water	10/13/20 11:37	10/13/20 14:45	
630-8485-2	BLANK	Drinking Water	10/13/20 11:37	10/13/20 14:45	
30-8485-2	BLANK	Drinking Water	10/13/20 11:37	10/13/20 14:45	

Eurofins QC, LLC – Horsham, PA

RL

MDL Unit

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Result Qualifier

ND ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

101

93

91

94

85 *3

Qualifier

%Recovery

Client Sample ID: POE Date Collected: 10/13/20 11:37 Date Received: 10/13/20 14:45

Analyte

Perfluorooctanoic acid

Perfluorononanoic acid Perfluorooctanesulfonic acid

Perfluorohexanesulfonic acid

Perfluoroundecanoic acid

Perfluorodecanoic acid

Perfluorotridecanoic acid

Perfluoroheptanoic acid

Perfluorohexanoic acid

Surrogate

13C2 PFDA

13C2 PFHxA

13C3 HFPO-DA

d5-NEtFOSAA

d5-NEtFOSAA

Perfluorododecanoic acid

Perfluorobutanesulfonic acid

Perfluorotetradecanoic acid

Lab Sample ID: 630-8485-1 Matrix: Drinking Water

Dil Fac Analyst

1 DCS9

1 DCS9

Matrix: Drinking Water

Lab Sample ID: 630-8485-2

1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
1.8	0.44	ng/L	10/22/20 08:37	1	DCS9
Limits			Analyzed	Dil Fac	Analyst
70 - 130			10/22/20 08:37	1	DCS9
70 - 130			10/22/20 08:37	1	DCS9

10/22/20 08:37

10/22/20 08:37

10/16/20 13:38

Analyzed

D

Client Sample ID: BLANK Date Collected: 10/13/20 11:37 Date Received: 10/13/20 14:45

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 Analyte **Result Qualifier** RL MDL Unit D Analyzed Dil Fac Analyst 1.8 0.45 ng/L 10/16/20 13:38 VK3G Perfluorooctanoic acid 13 1 Perfluorononanoic acid 2.1 1.8 0.45 ng/L 10/16/20 13:38 1 VK3G Perfluorooctanesulfonic acid 8.1 1.8 0.45 ng/L 10/16/20 13:38 1 VK3G 0.45 ng/L Perfluorohexanesulfonic acid 4.6 1.8 10/16/20 13:38 1 VK3G Perfluoroundecanoic acid ND 1.8 0.45 ng/L 10/16/20 13:38 1 VK3G Perfluorotetradecanoic acid ND 1.8 0.45 ng/L 10/16/20 13:38 1 VK3G Perfluorodecanoic acid 0.48 1.8 0.45 ng/L 10/16/20 13:38 1 VK3G .1 Perfluorotridecanoic acid VK3G ND 1.8 0.45 ng/L 10/16/20 13:38 1 Perfluoroheptanoic acid 4.4 1.8 0.45 ng/L 10/16/20 13:38 1 VK3G Perfluorododecanoic acid ND 18 0.45 ng/L 10/16/20 13:38 1 VK3G Perfluorohexanoic acid 1.8 0.45 ng/L 10/16/20 13:38 1 VK3G 5.1 1.8 0.45 ng/L 10/16/20 13:38 1 VK3G Perfluorobutanesulfonic acid 3.2 Surrogate %Recovery Qualifier Limits Analyzed Dil Fac Analyst VK3G 13C2 PFDA 92 70 - 130 10/16/20 13:38 1 73 13C2 PFHxA 70 - 130 10/16/20 13:38 1 VK3G 67 S1-13C3 HFPO-DA 70 - 130 1 VK3G 10/16/20 13:38

70 - 130

70 - 130

70 - 130

1 VK3G

Action Limit Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Client Sample ID: POE

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Unit	Limit	RL Method	Prep Type
na/l			
ng/L	10	1.8 EPA 537.1	Iotal/NA
ng/L	10	1.8 EPA 537.1	Total/NA
	ng/L	ng/L 10	ng/L 10 1.8 EPA 537.1

Client Sample ID: BLANK

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

			NYS-MCL			
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Туре
Perfluorooctanoic acid	13	ng/L	10	1.8	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	8.1	ng/L	10	1.8	EPA 537.1	Total/NA

Job ID: 630-8485-1

Lab Sample ID: 630-8485-1

Lab Sample ID: 630-8485-2

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC Job ID: 630-8485-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20
Alaska	State	PA00009	06-30-21
Alaska (UST)	State	17-027	01-31-21
Arizona	State	AZ0780	03-12-21
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-21
Colorado	State	PA00009	06-30-21
Connecticut	State	PH-0746	12-26-20
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	10-31-20
Delaware (DW)	State	N/A	01-25-21
Florida	NELAP	E87997	07-01-21
Hawaii	State	N/A	01-31-21
Illinois	NELAP	004559	01-14-21
lowa	State	361	03-02-22
Kansas	NELAP	E-10151	10-31-20
Kentucky (DW)	State	KY90088	12-31-20
Kentucky (UST)	State	1.01	11-30-20
Kentucky (WW)	State	KY90088	12-23-20
	NEL AP	02055	06-30-21
Maine	State	2019012	03-12-21
Manle	State	100	06 30 21
Massachusotte	State	M BA000	06 30 21
Michigon	State	0020	00-30-21
Michigan		9930	11 02 20
		042-999-407	04.04.00
Masters (D)A()	State	450	01-31-22
	State	0098	11-08-20
	State		01-01-22
Nedraska	State	NE-US-32-17	01-31-20 *
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	11-17-20
New Jersey	NELAP	PA011	01-03-21
New York	NELAP	10670	11-05-20
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	10-27-20
North Dakota	State	R-205	01-31-21
Oklahoma	NELAP	R-205	02-01-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	05-08-21
Pennsylvania	NELAP	36-00037	11-02-20
Rhode Island	State	LAO00338	02-28-21
South Carolina	State	89002002	01-31-21
Tennessee	State	02838	01-28-21
Texas	NELAP	T104704194-20-38	08-31-21
Utah	NELAP	PA000092019-16	02-28-21
Vermont	State	VT - 36037	10-28-20
Virginia	NELAP	10561	06-14-21
Washington	State	C457	04-11-21
West Virginia (DW)	State	9906 C	12-31-20
West Virginia DEP	State	055	10-25-20
Wyoming	State	8TMS-L	01-07-21
Wyoming (UST)	A2LA	1.01	11-29-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Job ID: 630-8485-1

Qualifiers

_ _ _ _

LCMS		
Qualifier	Qualifier Description	
*3	ISTD response or retention time outside acceptable limits.	 E
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	2
S1-	Surrogate recovery exceeds control limits, low biased.	6

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

eurofins 🕻				СН	AIN OF Page	CUS_of_	STO	DDY	1				Lab LIN	IS No:	MATRIX CODES
	QC	Bill to/Report	to (if differe	ent)									LAB US	<u>SE ONLY:</u> Ascorbic/HCL Vials # HCl Vials	DW: DRINKING WATER
702 Electronic Drive Pho	one: 215-355-3900					01.1									WWW WASTEWATER
Horsham, PA 19044 Fax	: 215-392-0626	Sampling Site	e Address (if diffe	rent) Include	State									SO: SOIL
Client/Acct. No. W09	890						_						#		SU, SULDCE
Address 230 RT E	59												#		SL: SLUDGE
														H2SU4 PH	OIL. OIL
ity/State/Zip W.NYACK, N	Y 10960	P.O. No.			F	WSID	#:						#	NaOH pH	SUL: NUN SUL SULID
hone/Fax 845 358	3734	Quote #											#	Unpreserved	MI: MISCELLANEOUS
lient Contact: Gilbert -	Francois	e-mail:											#	HCI #NH4CI #MeOH	X: OTHER
PROJECT		Collec	tion	G	C		1	Numbe	er of (Contain	ers	-		# DI Water	
FIELD ID		Date	Military Time	R A B	O Matrix M Code P	Total	H 2 S 0 4	H V I a I s	H N O 3	N Z a n O A H c	N P R E	A C T		ANALYSIS REQUESTED	Field pH, Temp (⁰ C), DO, Cl2, Cond. etc.
P.O.E		10/13/20	1137	ίχ.									PŦ	AS + Field Blank	
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															Loc: 630
													630-848	5 Chain of Custody	0400
													1		
GAMPLED BY: (Name/Company)	TAT: 🗆 STAN	DARD (10 DA	Y)	Rep	ort Format:	□ Star	ndard] NJ-	RDD		SRP-	RDD	Field Parameters Analyz	zed By:
EQC	or DUE DATE	0 /13	120		Standard + Q	C 🗆	Form	ns (DD				Initials	Date/Time:
SARA CAMACHO	Please call for pr	icing and availa	bility for ru	sh (<1	0 day) turnaro	und and	for al	ll but s	standa	ard repo	rting	format		JUSIER	
SAMPLE CUSTODY EXCHANG	ES MUST BE DO	CUMENTER	D BELO	N. L	ISE FULL I	EGA	_ SIC	GNA	TUR	RE, DA	TE	AND	MILITARY	TIME (24 HOUR CLOCK, I.E. 8AM IS 0	800, 4 PM IS 1600)
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RELINQUISHED BY	DATE	TIME	ECEIVED	BA						DATE			TIVIE	Rec'd Temp.: 4.7° Initials: SC3 Ic	N Location: EP-
2. RELINQUISHED BY	DATE	TIME R	RECEIVED	BY						DATE			TIME	COMMENTS:	
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Eurofins QC, LLC - Horsham, PA

Chain of Custody Record



eurofins Environment Testing America

702 Electronic Drive Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567

Client Information (Sub Contract Lab)	Sampler			Lab PN Doug	A: herty.	Erin				Carrier	Tracking	g No(s):		COC No: 630-2677.1	
Client Contact:	Phone:			E-Mail:						State of	of Origin:			Page:	
Shipping/Receiving				erindo	oughe	ty@e	urofinsu	IS.com		New	York			Page 1 of 1	
Eurofins Lancaster Laboratories Env LLC				í	NELA	- Ne	w Jerse	(See note ly	s):					630-8485-1	
Address:	Due Date Request	ed:						A	lugia I	2			-	Preservation Co	les:
City	TAT Requested (d	avs):					-	Ana	iysis i	request	ea	1 1	1 1	A - HCL	M - Hexane
Lancaster		-1-1.											1.185	B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: PA, 17601						PFOA,	1011						1	D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone: 717-656-2300(Tel)	PO #:				(0	PFNA,	LINA,							G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahyd
Email:	WO#:				No)	laon	lanu						10	I - Ice J - DI Water	U - Acetone V - MCAA
voject Name: Village of Nyack - PFC	Project #: 63003671				es or	Prep (dai1						Itaine	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
ite	SSOW#:				SD (Y	Md							of con	Other:	
			Sample N Type (v	atrix	Filtered S	DWI537.1	(Hold)						Number o		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT+TI Preservation	sue, A=Alr)	Perfe	537.1 PF05	PFOS				1975		Total	Special Ir	structions/Note:
POE (630-8485-1)	10/13/20	11:37	prink	ng Wate	7	x					100,000	1000	2	5 day turnaround	approved by the lab
3LANK (630-8485-2)	10/13/20	11:37 Eastern	Prink	ng Wate			x						1	5 day turnaround	approved by the lab
					4	Re-M									
	and the				1								10		
					1		4	in a							
					2			3							
			Parent La												
Note: Since laboratory accreditations are subject to change, Eurofins not currently maintain accreditation in the State of Origin listed above prought to Eurofins QC, LLC – Horsham, PA attention immediately.	s QC, LLC – Horsham, PA place a for analysis/tests/matrix being i If all requested accreditations ar	s the ownershi analyzed, the s e current to da	o of method, analyte amples must be shi te, return the signed	& accredit oped back t Chain of C	tation co to the E Custody	mplian urofins attestir	Ce upon (QC, LLC ng to said	out subco – Horsha complicai	ntract lab m, PA lat nce to Eu	oratories. T poratory or o rofins QC, L	his samp ther instr LC – Hor	le shipmen uctions will sham, PA.	is forward be provide	ed under chain-of-cu ed. Any changes to a	stody. If the laboratory creditation status sho
Possible Hazard Identification					Sar	nple	Disposa	al (A fe	e may l	e assess	ed if s	amples a	re retair	ned longer than "	month)
Unconfirmed						Re	turn To	Client	C	Dispose	al By La	b	Arch	ive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	1		Spe	ecial In	nstructio	ons/QC	Require	ments:					
Empty Kit Relinquished by:		Date:		1	Time:					A	lethod of	Shipment	-		
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8

Nyack Water Department

2020 QUARTER 4 SAMPLING REPORT

(2 OF 2)

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 702 Electronic Drive Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-9481-1

Client Project/Site: Village of Nyack - PFC Revision: 2

For:

..... Links

Review your project results through

Total Access

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert Francois

Erin Do

Authorized for release by: 3/1/2021 12:55:18 PM

Erin Dougherty, Project Administrator (215)355-3900 Erin.Dougherty@eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

• Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

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• Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

• The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Zachary Smith (Water Microbiology).

Erin Dougherty Project Administrator 3/1/2021 12:55:18 PM

Job ID: 630-9481-1

Laboratory: Eurofins QC, LLC – Horsham, PA

Narrative

Job Narrative 630-9481-1

REVISION

The report being provided is a revision of the original report sent on 11/10/2020. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Report revision history

The report being provided is a revision of the original report sent on 11/10/2020. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Revision 1 - 3/1/2021 - Reason - Certification updated to include New York..

Receipt

The samples were received on 11/2/2020 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

LCMS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Job ID: 630-9481-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
630-9481-1	LAB SINK	Drinking Water	10/30/20 12:32	11/02/20 15:30	
630-9481-2	FIELD BLANK	Drinking Water	10/30/20 12:29	11/02/20 15:30	

Client Sample Results

RL

1.9

1.9

1.9

Limits

70 - 130

70 - 130

70 - 130

70 - 130

MDL Unit

0.49 ng/L

0.49 ng/L

0.49 ng/L

D

Analyzed

11/06/20 21:51

11/06/20 21:51

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Result Qualifier

9.4

2.2

7.8

%Recovery Qualifier

103

79

72

90

Analyte

Surrogate

13C2 PFDA

13C2 PFHxA

13C3 HFPO-DA

d5-NEtFOSAA

Perfluorooctanoic acid

Perfluorononanoic acid

Perfluorooctanesulfonic acid

Lab Sample ID: 630-9481-1 Matrix: Drinking Water

Dil Fac Analyst

1 Y6ZN

1 Y6ZN

11/06/20 21:51	1	Y6ZN
Analyzed	Dil Fac	Analyst
11/06/20 21:51	1	Y6ZN

Lab Sample ID: 630-9481-2

Matrix: Drinking Water

Client Sample ID: FIELD BLANK Date Collected: 10/30/20 12:29

Date Received: 11/02/20 15:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	ND		1.7	0.44	ng/L		11/06/20 22:03	1	Y6ZN
Perfluorononanoic acid	ND		1.7	0.44	ng/L		11/06/20 22:03	1	Y6ZN
Perfluorooctanesulfonic acid	ND		1.7	0.44	ng/L		11/06/20 22:03	1	Y6ZN
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analysi
13C2 PFDA	89		70 - 130				11/06/20 22:03	1	Y6ZN
13C2 PFHxA	91		70 - 130				11/06/20 22:03	1	Y6ZN
13C3 HFPO-DA	84		70 - 130				11/06/20 22:03	1	Y6ZN
45 NETEOSAA	80		70 130				11/06/20 22.03	1	Y67N

Action Limit Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Client Sample ID: LAB SINK

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

—			NYS-MCL			
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Type
Perfluorooctanoic acid	9.4	ng/L	10	1.9	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	7.8	ng/L	10	1.9	EPA 537.1	Total/NA
		5				

Client Sample ID: FIELD BLANK

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

			NYS-MCL			
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Type
Perfluorooctanoic acid	ND	ng/L	10	1.7	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	ND	ng/L	10	1.7	EPA 537.1	Total/NA

Job ID: 630-9481-1

Lab Sample ID: 630-9481-1

Lab Sample ID: 630-9481-2

Eurofins QC, LLC – Horsham, PA

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC Job ID: 630-9481-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20
Alaska	State	PA00009	06-30-21
Alaska (UST)	State	17-027	01-31-21
Arizona	State	AZ0780	03-12-21
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-21
Colorado	State	PA00009	06-30-21
Connecticut	State	PH-0746	12-26-20
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-22
Delaware (DW)	State	N/A	01-25-21
Florida	NELAP	E87997	07-01-21
Hawaii	State	N/A	01-31-21
Illinois	NELAP	004559	01-14-21
lowa	State	361	03-02-22
Kansas		F-10151	10-31-21
Kentucky (DW)	State	KY90088	12-31-20
Kentucky (LIST)	State	1 01	11-30-20
Kentucky (WW)	State	KV00088	12-23-20
		02055	06 20 21
Louisiana		02055	00-30-21
Manle	State	2019012	05-12-21
			00-30-21
Massachusetts	State	M-PA009	06-30-21
Michigan	State	9930	01-31-21
Minnesota	NELAP	042-999-487	12-31-21
Missouri	State	450	01-31-22
Montana (DW)	State	0098	11-08-20
Montana (UST)	State	0098	01-01-22
Nebraska	State	NE-OS-32-17	01-31-20 *
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	11-17-20
New Jersey	NELAP	PA011	01-03-21
New York	NELAP	10670	04-01-21
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	12-20-20
North Dakota	State	R-205	01-31-21
Oklahoma	NELAP	R-205	02-01-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	05-08-21
Pennsylvania	NELAP	36-00037	12-03-20
Rhode Island	State	LAO00338	02-28-21
South Carolina	State	89002002	01-31-21
Tennessee	State	02838	01-28-21
Texas	NELAP	T104704194-20-38	08-31-21
Utah	NELAP	PA000092019-16	02-28-21
Vermont	State	VT - 36037	10-29-21
Virginia	NELAP	10561	06-14-21
Washington	State	C457	04-11-21
West Virginia (DW)	State	9906 C	12-31-20
West Virginia DEP	State	055	12-28-20
Wyoming	State	8TMS-L	01-07-21
Wyoming (UST)	A2LA	1.01	11-29-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Job ID: 630-9481-1

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G	lossarv	

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins QC, LLC - Horsham, PA

~ h												
EQC Picksheet: P7216471 Cust: TEST & 610 9890 Schd: 11183 XLACE OF NYACK W.T.P. 30 ROUTE 59 YACK, NY, 10960 HORSHAM, PA. (.) (215)555-5555 HOME (215)333-3333 HOME #2 (215)355-3535 PHONE # Route: 1. VIEWIN (C.) 245 59	Ex, Project Name: Start Date: 01/ Comm Blank p	pected: WEDNESDAY 09/28/33 - - 01/95 Stop Date: ents/Schedule Details: oick sheet for use in-house	09/28/33 P s <u>e</u>	LA # # # # # # # #_	AB USE ONLY Ascorbic/ NA2S2OC NaOH/Zn HNO3 H2SO4 NaOH NaOH HCL NH4CL NH4CL NA2SO3/ DI Water	HCL Vials	Bottle Type #	HCL Vials	Tests By:		Time:	
Active C) Disidi			e H P L	00	Collection	Collection (Military)	Fime Total # Bottles	Free Cl2	pH/TempC	BR2 YES/NO	Total CL2 mg/L	
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- T: - W: - Th: - F: -	St: - Sn: -								Hazardous	5 T/IN		

Phone: 215-355-3900 Fax: 888-785-8567						_					10		- March 1		1				
Client Information (Sub Contract Lab)	Sampler:	Sampler: Leb PM: Dough						nerty, Erin					Carrier Tracking No(s):				COC No: 630-2926.1		
Chent Information (Sub Contract Lab)	Phone:	Phone: E-Mail:						aushort/@austineus.com					State of Origin:			Page: Page 1 of 1			
Shipping/Receiving		erindo						Accreditations Required (See note):					New TOR			Jop #			
Company: Eurofins Lancaster Laboratories Env LLC					NELA	AP - N	lew Je	rsey					_		6	30-9481-1			
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2425 New Holland Pike, ,	TAT Requested (d	TAT Requested (days):					<u><u><u></u></u></u>										M - Hexane N - None		
Lancaster							(Hald									C - Zn Acetate	0 - AsNa02 P - Na2045		
State, Zip:						FOS	FOS									E - NaHSO4	Q - Na2503		
Phone:	PO #:				11	A, P	A, P									G - Amchlar	5-H2SO4		
717-656-2300(Tel)	WD #	WD #														H - Ascorbic Acid T - TSI I - Ice U - Ac	U - Acetone		
Email:	WO .				No)	FNA.	FNA,								2	J - DI Water K - EDTA	V - MCAA W - pH 4-5		
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Village of Nyack - PFC	SSOW#:	SSOW#:					N_P	d'A					1	500	Other:				
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Sample Identification - Chem to (Lab to)		><	Preserve	ation Code:	XX		1000	OT IC			1			D	X				
AB SINK (630-9481-1)	10/30/20	12:32		prinking Wat	П	X								1	2	aday tumaround a	pproved by the lab		
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Note: Since laboratory accreditations are subject to change, Eurofins QC,	LLC - Horsham, PA places to vsis/lests/matrix boing analyz	he ownership of red, the sample	of method, and as must be shi	alyte & accredita loped back to th	tion com a Eurofin	nplianci ns QC,	a upon o	out subc	ontract la , PA labo	bonatoria ratory or	es. This rother in	sample s	hipment is fr will be prov	ided. An	y cha	er chain-of-custody. Inges to accreditation	a status should be brough		
in Eurofins QC, LLC - Horsham, PA attention immediately. If all requesta	d accreditations are current t	o date, return t	he signed Chu	in of Custody a	ttesling t	to said	complic	ance lo	Eurolina	QC, LLC	C - Hors	ham, PA.							
Possible Hazard Identification								Sample Disposal (A fee may be assessed if samples an								retained longer than 1 month)			
Unconfirmed					_	FR	Return	To Cli	ent		Dispo	sal By L	.ab	A	rchiv	ne For	Months		
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	1		Sp	pecial	Instru	ctions/	QC Re	quirem	ients:								
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Eurofins QC, LLC - Horsham, PA

Nyack Water Department

2021 QUARTER 1 SAMPLING REPORT

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 702 Electronic Drive Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-13652-1

Client Project/Site: Village of Nyack - PFC Revision: 2

For:

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert Francois

Erin Do

Authorized for release by: 3/1/2021 12:59:05 PM

Erin Dougherty, Project Administrator (215)355-3900 Erin.Dougherty@eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Visit us at: www.eurofinsus.com/Env

Review your project results through Total Access

..... Links



Attn: Gilbert F

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

- Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

• Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

• Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

• EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

• Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

• The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Zachary Smith (Water Microbiology).

Erin Dougherty Project Administrator 3/1/2021 12:59:05 PM

Job ID: 630-13652-1

Laboratory: Eurofins QC, LLC – Horsham, PA

Narrative

Job Narrative 630-13652-1

REVISION

The report being provided is a revision of the original report sent on 2/25/2021. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Report revision history

The report being provided is a revision of the original report sent on 2/25/2021. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Revision 1 - 3/1/2021 - Reason - Certifications updated to include New York..

Receipt

The samples were received on 2/17/2021 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C

LCMS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.
Sample Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
630-13652-1	POE	Drinking Water	02/17/21 11:39	02/17/21 15:35	
630-13652-2	BLANK	Drinking Water	02/17/21 11:39	02/17/21 15:35	

3/1/2021 (Rev. 2)

Client Sample Results

RL

1.8

1.8

1.8

Limits

70 - 130

70 - 130

70 - 130

70 - 130

MDL Unit

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Dil Fac Analyst

Lab Sample ID: 630-13652-1 Matrix: Drinking Water

Lab Sample ID: 630-13652-2

Matrix: Drinking Water

Dil Fac Analyst

1 Y6ZN 1 Y6ZN

1 Y6ZN

0.44	ng/L	_	02/23/21 20:18	1	Y6ZN
0.44	ng/L		02/23/21 20:18	1	Y6ZN
0.44	ng/L		02/23/21 20:18	1	Y6ZN
			Analyzed	Dil Fac	Analyst
			02/23/21 20:18	1	Y6ZN
			02/23/21 20:18	1	Y6ZN
			02/23/21 20:18	1	Y6ZN
			02/23/21 20:18	1	Y6ZN

Analyzed

02/23/21 20:29

02/23/21 20:29 02/23/21 20:29

Analyzed

D

D

Client Sample ID: BLANK

Client Sample ID: POE

Perfluorooctanoic acid

Perfluorononanoic acid

Perfluorooctanesulfonic acid

Analyte

Surrogate

13C2 PFDA

13C2 PFHxA

13C3 HFPO-DA

d5-NEtFOSAA

Date Collected: 02/17/21 11:39

Date Received: 02/17/21 15:35

Date Collected: 02/17/21 11:39 Date Received: 02/17/21 15:35

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018					
Analyte	Result	Qualifier	RL	MDL	Unit
Perfluorooctanoic acid	ND		1.8	0.45	ng/L
Perfluorononanoic acid	ND		1.8	0.45	ng/L
Perfluorooctanesulfonic acid	ND		1.8	0.45	ng/L

Result Qualifier

7.2

5.1

106

96

84

99

1.2 J

%Recovery Qualifier

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	98		70 - 130	02/23/21 20:29	1	Y6ZN
13C2 PFHxA	103		70 - 130	02/23/21 20:29	1	Y6ZN
13C3 HFPO-DA	99		70 - 130	02/23/21 20:29	1	Y6ZN
d5-NEtFOSAA	98		70 - 130	02/23/21 20:29	1	Y6ZN

Action Limit Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Client Sample ID: POE

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

			NYS-MCL			
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Type
Perfluorooctanoic acid	7.2	ng/L	10	1.8	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	5.1	ng/L	10	1.8	EPA 537.1	Total/NA

Client Sample ID: BLANK

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

			NYS-MCL			
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Туре
Perfluorooctanoic acid	ND	ng/L	10	1.8	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	ND	ng/L	10	1.8	EPA 537.1	Total/NA

Job ID: 630-13652-1

Lab Sample ID: 630-13652-1

Lab Sample ID: 630-13652-2

Eurofins QC, LLC – Horsham, PA

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC Job ID: 630-13652-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-22
Alaska	State	PA00009	06-30-21
Alaska (UST)	State	17-027	01-31-21 *
Arizona	State	AZ0780	03-12-21
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-22
Colorado	State	PA00009	06-30-21
Connecticut	State	PH-0746	06-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-22
Delaware (DW)	State	N/A	02-01-22
Florida	NELAP	E87997	07-01-21
Hawaii	State	N/A	01-31-22
Illinois	NELAP	004559	01-31-22
lowa	State	361	03-02-22
Kansas	NELAP	E-10151	10-31-21
Kentucky (DW)	State	KY90088	01-01-22
Kentucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	12-31-21
Louisiana	NFI AP	02055	06-30-21
Maine	State	2019012	03-12-21
Manle	State	100	06-30-21
Massachusette	State	M-PA009	06-30-21
Michigon	State	M-FA009	00-30-21
Minnegeta		9950	10 01-01-22
Minnesota		042-999-467	12-31-21
	State	450	01-31-22
	State	0098	01-01-22
Montana (USI)	State	0098	01-01-22
Nebraska	State	NE-OS-32-17	01-31-20 *
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	01-10-22
New Jersey	NELAP	PA011	06-30-21
New York	NELAP	10670	04-01-21
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	12-31-21
North Dakota	State	R-205	01-31-22
Oklahoma	NELAP	R-205	08-31-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	05-08-21
Pennsylvania	NELAP	36-00037	01-31-22
Rhode Island	State	LAO00338	02-28-21
South Carolina	State	89002002	01-31-22
Tennessee	State	02838	01-31-22
Texas	NELAP	T104704194-20-38	08-31-21
Utah	NELAP	PA000092019-16	02-28-21
Vermont	State	VT - 36037	10-29-21
Virginia	NELAP	10561	06-14-21
Washington	State	C457	04-11-21
West Virginia (DW)	State	9906 C	12-31-21
West Virginia DEP	State	055	06-30-21
Wyoming	State	8TMS-I	01-31-22
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	ALA	1.01	11-30-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Job ID: 630-13652-1

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Qualifiers

L	С	Μ	S
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Qualifier	Qualifier Description
J	Result is less than the

Result is less than the RL but i	areater than or equal to the MDI	and the concentration is an	annrovimate value
result is less than the re but			approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

🔅 eurofins				CH	AIN OF Page	CUS	ТО	DY	,			Lab L	IMS No:	MATRIX CODES
	QC	Bill to/Repor	t to (if differ	rent)								LAB	JSE ONLY:	DW: DRINKING WATER
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Horsham, PA 19044 Fa	ax: 215-392-0626	Sampling Sit	e Address	(if diffe	rent) Include	State						#	_ Na ₂ S ₂ O ₃	WW: WASTEWATER
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COO Fit	91				A. A							#	H ₂ SO ₄ pH	OIL: OIL
City/State/Zip	14 10060	P.O. No.			F	WSID #	t:					#	NaOH pH	SOL: NON SOIL SOLID
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Eurofins QC, LLC – Horsham, PA

Chain of Custody Record



eurofins

Environment Testing America

702 Electronic Drive Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567

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Nyack Water Department

2021 QUARTER 2 SAMPLING REPORT

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 213 Witmer Road Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-17130-1

Client Project/Site: PFC Sampling Event: Quarterly PFC, Dioxane Revision: 1

For:

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Total Access

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Visit us at:

Expert

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert Francois

Authorized for release by: 7/9/2021 12:08:38 PM

Erin Dougherty, Project Administrator (215)355-3900 Erin.Dougherty@eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

- Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

• Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

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· All samples are collected as "grab" samples unless otherwise identified.

• Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

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• The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Zachary Smith (Water Microbiology).

Erin Dougherty Project Administrator 7/9/2021 12:08:38 PM

2 3 4 5 6

Job ID: 630-17130-1

Laboratory: Eurofins QC, LLC – Horsham, PA

Narrative

Job Narrative 630-17130-1

REVISION

The report being provided is a revision of the original report sent on 5/20/2021. The report (revision 0) is being revised due to . **Receipt**

The samples were received on 5/10/2021 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.7°C

LCMS

Method 537.1_DW: The recovery for a target analyte(s) in the laboratory control spike(s) associated with the following sample(s): POE, Lab Sink (630-17130-1) and Field Blank (630-17130-2) is outside the QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Village of Nyack Water Treatment Plant Project/Site: PFC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset I
630-17130-1	POE, Lab Sink	Drinking Water	05/10/21 13:25	05/10/21 15:10	
630-17130-2	Field Blank	Drinking Water	05/10/21 13:26	05/10/21 15:10	

Client Sample Results

Client: Village of Nyack Water Treatment Plant Project/Site: PFC

Client Sample ID: POE, Lab Sink Date Collected: 05/10/21 13:25 Date Received: 05/10/21 15:10

Lab Sample ID: 630-17130-1 Matrix: Drinking Water

3 4 5

Method: EPA 537.1 - EPA 537	7.1, Ver 1.0 N	ov 2018							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	3.4		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluoroheptanoic acid	2.4		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorooctanoic acid	6.8		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorononanoic acid	1.3	J	1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorodecanoic acid	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorobutanesulfonic acid	2.1		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorohexanesulfonic acid	3.0		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorooctanesulfonic acid	5.1		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
NEtFOSAA	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
NMeFOSAA	ND	*_	1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
HFPODA	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
9CI-PF3ONS	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
11CI-PF3OUdS	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
DONA	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	90		70 - 130				05/20/21 05:00	1	DCS9
13C2 PFHxA	79		70 - 130				05/20/21 05:00	1	DCS9
13C3 HFPO-DA	76		70 - 130				05/20/21 05:00	1	DCS9
d5-NEtFOSAA	87		70 - 130				05/20/21 05:00	1	DCS9

Client Sample ID: Field Blank

Date Collected: 05/10/21 13:26 Date Received: 05/10/21 15:10

Method: EPA 537.1 - EPA 537	.1, Ver 1.0 Nov 2018							
Analyte	Result Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluoroheptanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorooctanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorononanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorodecanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorotridecanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorotetradecanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorobutanesulfonic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorohexanesulfonic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorooctanesulfonic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
NEtFOSAA	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
NMeFOSAA	ND *-	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluoroundecanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorododecanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
HFPODA	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
9CI-PF3ONS	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
11CI-PF3OUdS	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
DONA	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9

Eurofins QC, LLC - Horsham, PA

Lab Sample ID: 630-17130-2

Matrix: Drinking Water

Client Sample Results

Client Sample ID: Field Blank

Date Collected: 05/10/21 13:26

Date Received: 05/10/21 15:10

Job ID: 630-17130-1

Matrix: Drinking Water

Lab Sample ID: 630-17130-2

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	84		70 - 130	05/20/21 05:11	1	DCS9
13C2 PFHxA	88		70 - 130	05/20/21 05:11	1	DCS9
13C3 HFPO-DA	97		70 - 130	05/20/21 05:11	1	DCS9
d5-NEtFOSAA	88		70 - 130	05/20/21 05:11	1	DCS9

Eurofins QC, LLC – Horsham, PA

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: PFC

Job ID: 630-17130-1

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Laboratory: Eurofins Lancaster Laboratories Env, LLC Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority **Identification Number Expiration Date** Program New York NELAP 10670 04-01-22 The following analytes are included in this report, but accreditation/certification is not offered by the governing authority: Matrix Analyte Analysis Method Prep Method EPA 537.1 537.1 DW Prep **Drinking Water** 11CI-PF3OUdS EPA 537.1 537.1 DW Prep **Drinking Water** 9CI-PF3ONS EPA 537.1 537.1 DW Prep **Drinking Water** DONA EPA 537.1 537.1 DW Prep **Drinking Water HFPODA** EPA 537.1 537.1 DW Prep **Drinking Water NEtFOSAA** EPA 537.1 537.1 DW Prep **Drinking Water NMeFOSAA** EPA 537.1 **Drinking Water** Perfluorobutanesulfonic acid 537.1 DW Prep **Drinking Water** Perfluorodecanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** 537.1 DW Prep Perfluorododecanoic acid EPA 537.1 EPA 537.1 537.1 DW Prep **Drinking Water** Perfluoroheptanoic acid **Drinking Water** EPA 537.1 537.1 DW Prep Perfluorohexanesulfonic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorohexanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorononanoic acid **Drinking Water** EPA 537.1 537.1 DW Prep Perfluorotetradecanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorotridecanoic acid EPA 537.1 **Drinking Water** Perfluoroundecanoic acid 537.1 DW Prep Qualifiers LCMS Qualifier **Qualifier Description** LCS and/or LCSD is outside acceptance limits, low biased. J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Client: Village of Nyack Water Treatment Plant Project/Site: PFC Job ID: 630-17130-1

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Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

- TEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Client: Village of Nyack Water Treatment Plant Project/Site: PFC

Laboratory References:

-	
-	
	5
	6

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE
Protocol Refe	erences:		
EPA = US E	Environmental Protection Agency		

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

EEGEC Picksheet: P7247974 Cust: W09890 Schd: 55659 GILBERT FRANCOIS VILLAGE OF NYACK WATER TREATMENT PLANT 230 ROUTE 59 NYACK, NY 10960 (845)358-0641 (845)358-3734 GILERT FRANCOIS-PLANT (845)597-5424 GILERT FRANCOIS-CELL Route: 4 SARA CAMACHO	Expected: MONDAY 04/05/21-06 Project Name: VILLAGE OF NYACK WATER TF Start Date: 02/19/21 Stop Date: Comments/Schedule Details: CALL GILBERT TO SCHEDULE PRIOR SAMPLING: PLANT 845-358-3734, OR 845-597-5424 Gilbert Said Samping to be Call how before.	dddde c c c c c c c c c c c c c c c c c	LAB USE ONLY # Ascorbic/HCl # Na2S203 # Na0H/Zn acc # HN03 pH # Na0H pH # Na0H pH # Unpreserved # HCL # NH4CL # MEOH # Na2S03/HCL # DI Water Collection	Bottl	HCL V	Vials	BR2	/Time: Total CL2	1 2 3 4 5 6
7247974-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, PFC			Date 5/10/21	(Military) #	2	g/LpH/Temp	CYES/NO	mg/L	7
7247974-2 FIELD BLANK PFC			5/10/21	13:26	1				
			630-17130 0	Chain of Custod	y				
Sample Collected By Circle One	Initials						Cooler ID:		
Pelmano Client (EQ Relinquished By Tim Jana 15:1	e Date Received By $0.5/10/21$ $+1.6$	Required TAT: Standar Time Date 15:10 5)10	rd/Rush # Days Temp I	Ced Y/N Site	F X	tials	nts (reporting, me	thods, etc)	
M: 07:00-17:00 T: 07:00-17:00 W: 07:00-17:00 Th: 07:00-17: M: - T: - W: - Th: - F: - St: PM:	- Sn: - Printed: 01 - Sn: -	0/21/21 GPS X:	Y:			Hazarde	ous Y/N		

Eurofins QC, LLC – Horsham, PA

702 Electronic Drive

Chain of Custody Record



Environment Testing America

	Sampler			Lab F	M:	Esia				Carri	er Tracking	No(s)		COC No:	
Client Information (Sub Contract Lab)	Phone:			E-Ma	gnerty	, Erir	1			State	of Origin:			630-4643.1 Page:	
Shipping/Receiving				Erin	Doug	nerty	@euro	finset.co	om	Nev	V York			Page 1 of 1	
Company: Eurofins Lancaster Laboratories Env LLC					Accred	litation	is Requi	ired (See ork	note):					Job #: 630-17130-1	
Address: 2425 New Holland Pike	Due Date Request	ted:						A	nalvsis	Reques	sted			Preservation Co	des:
Dity:	TAT Requested (d	lays):				T	TT							A - HCL B - NaOH	M - Hexane N - None
Lancaster						S	s						100	C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
PA, 17601						PEG.	PEC							E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 717-656-2300(Tel)	POIR				0	PFOA	PFOA							G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydra
Email:	WO#				or N	FNA,	FNA,						- 10	J - Ice J - DI Water	U - Acetone V - MCAA
Project Name:	Project #:				(Yes	ep PI	ep PI						ainer	K - EDTA	W - pH 4-5 Z - other (specify)
Village of Nyack	SSOW#:				nple (Ye:	- M	A, N						cont	Other:	
Village of Nyack Qtly PFC					ASD AST		-						r of		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w-water, 8-solid, O-waste/oli, BT-Tissue, A-Air)	Field Filtered Perform MS/	537.1_DW/537	537.1_DW/537 (Hold)						Total Numbe	Special I	nstructions/Note:
	\sim	$>\!$	Preserva	tion Code:	X								X		
POE, Lab Sink (630-17130-1)	5/10/21	13:25 Eastern		rinking Wat		X							2	5 day turnaround	approved by the lab
Field Blank (630-17130-2)	5/10/21	13:26 Eastern		rinking Wat			X						1	5 day turnaround	approved by the lab
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Note: Since laboratory accreditations are subject to change, Eurofins Q	C, LLC - Horsham, PA place	as the ownersh	ip of method, a	analyte & accre	ditation	compl	iance up	on out su	bcontract lat	boratories.	This samp	le shipment	is forward	led under chain-of-cu	stody. If the laboratory d
brought to Eurofins QC, LLC – Horsham, PA attention immediately. If a	Il requested accreditations a	re current to di	ate, return the	signed Chain o	Custo	ly atte	sting to	said comp	blicance to El	urofins QC	LLC - Ho	rsham, PA.	io provide	ia. Tany anangos to a	00 00 00 00 00 00 00 00 00 00 00 00 00
Possible Hazard Identification					S	ampl	e Disp	osal (A	A fee may	be asse	ssed if s	amples ai	e retalı	ned longer than	1 month)
Unconfirmed							Return	To Clie	nt L	Dispo	sal By La	ab L	Arch	nive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delive	rable Rank:	1		S	pecia	II Instru	ictions/C	C Require	ements:					
Empty Kit Relinquished by:		Date:			Time	:					Method o	Shipment:			
Relinquisted by:	Date/Time:	116	5:15	Company		Red	ceived b	À.	1			Date/Time			Company
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Ves A No										4P)(4.1	ŬŪ	7.0	C= 4.7

Nyack Water Department

2021 QUARTER 2 SAMPLING REPORT

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 213 Witmer Road Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-21256-1

Client Project/Site: PFC, Dioxane Sampling Event: Quarterly PFC, Dioxane

For:

..... Links

Review your project results through

Total Access

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The

www.eurofinsus.com/Env

Visit us at:

Expert

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert Francois

Erin Do

Authorized for release by: 10/6/2021 3:10:06 PM

Erin Dougherty, Project Administrator (215)355-3900 Erin.Dougherty@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

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• Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

• EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

• Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

• The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Zachary Smith (Water Microbiology).

Erin Dougherty Project Administrator 10/6/2021 3:10:06 PM

Job ID: 630-21256-1

Laboratory: Eurofins QC, LLC – Horsham, PA

Narrative

Job Narrative 630-21256-1

Receipt

The samples were received on 8/26/2021 3:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5° C

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins QC, LLC - Horehenzo A

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-21256-1	POE, Lab Sink	Drinking Water	08/26/21 09:50	08/26/21 15:26
630-21256-2	Field Blank	Drinking Water	08/26/21 09:47	08/26/21 15:26

Sample Summary

Client Sample Results

Client: Village of Nyack Water Treatment Plant Project/Site: PFC, Dioxane

Client Sample ID: POE, Lab Sink Date Collected: 08/26/21 09:50 Date Received: 08/26/21 15:26

Lab Sample ID: 630-21256-1 Matrix: Drinking Water

3 4 5

Method: EPA 537.1 - EPA 53	7.1, Ver 1.0 Nov 2018							
Analyte	Result Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	4.6	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluoroheptanoic acid	3.7	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorooctanoic acid	7.7	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorononanoic acid	1.4 J	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorodecanoic acid	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorotridecanoic acid	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorotetradecanoic acid	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorobutanesulfonic acid	2.6	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorohexanesulfonic acid	2.0	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorooctanesulfonic acid	4.9	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
NEtFOSAA	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
NMeFOSAA	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluoroundecanoic acid	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorododecanoic acid	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
HFPODA	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
9CI-PF3ONS	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
11CI-PF3OUdS	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
DONA	ND	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Surrogate	%Recovery Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	115	70 - 130				09/02/21 11:37	1	Y6ZN
13C2 PFHxA	103	70 - 130				09/02/21 11:37	1	Y6ZN
13C3 HFPO-DA	99	70 - 130				09/02/21 11:37	1	Y6ZN
d5-NEtFOSAA	106	70 - 130				09/02/21 11:37	1	Y6ZN

Client Sample ID: Field Blank

Date Collected: 08/26/21 09:47 Date Received: 08/26/21 15:26

Method: EPA 537.1 - EPA 53	37.1, Ver 1.0 Nov 2018							
Analyte	Result Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluoroheptanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorooctanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorononanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorodecanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorotridecanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorotetradecanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorobutanesulfonic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorohexanesulfonic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorooctanesulfonic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
NEtFOSAA	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
NMeFOSAA	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluoroundecanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorododecanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
HFPODA	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
9CI-PF3ONS	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
11CI-PF3OUdS	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
DONA	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN

Eurofins QC, LLC - Horsham, PA

Lab Sample ID: 630-21256-2

Matrix: Drinking Water

Client Sample Results

Job ID: 630-21256-1

Matrix: Drinking Water

Lab Sample ID: 630-21256-2

Client Sample ID: Field Blank Date Collected: 08/26/21 09:47 Date Received: 08/26/21 15:26

Surrogate	%Recovery Q	ualifier Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	107	70 - 130	09/02/21 11:49	1	Y6ZN
13C2 PFHxA	108	70 - 130	09/02/21 11:49	1	Y6ZN
13C3 HFPO-DA	102	70 - 130	09/02/21 11:49	1	Y6ZN
d5-NEtFOSAA	113	70 - 130	09/02/21 11:49	1	Y6ZN

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: PFC, Dioxane Job ID: 630-21256-1

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Laboratory: Eurofins Lancaster Laboratories Env, LLC Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Identification Number **Expiration Date** Program New York NELAP 10670 04-01-22 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte EPA 537.1 537.1 DW Prep **Drinking Water** 11CI-PF3OUdS EPA 537.1 537.1 DW Prep **Drinking Water** 9CI-PF3ONS EPA 537.1 537.1 DW Prep **Drinking Water** DONA EPA 537.1 537.1 DW Prep **Drinking Water** HFPODA EPA 537.1 **Drinking Water NEtFOSAA** 537.1 DW Prep **Drinking Water** EPA 537.1 537.1 DW Prep **NMeFOSAA** Perfluorobutanesulfonic acid EPA 537.1 537.1 DW Prep **Drinking Water Drinking Water** Perfluorodecanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorododecanoic acid EPA 537.1 537.1 DW Prep EPA 537.1 537.1 DW Prep **Drinking Water** Perfluoroheptanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorohexanesulfonic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorohexanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorononanoic acid **Drinking Water** Perfluorotetradecanoic acid EPA 537.1 537.1 DW Prep EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorotridecanoic acid EPA 537.1 **Drinking Water** Perfluoroundecanoic acid 537.1 DW Prep Qualifiers LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: PFC, Dioxane

Job ID: 630-21256-1

5 6

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client: Village of Nyack Water Treatment Plant Project/Site: PFC, Dioxane

Project/Site: P	PFC, Dioxane	J	00 10. 030-21230-1	
Method	Method Description	Protocol	Laboratory	
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE	
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE	4
Protocol Refe	erences:			5
EPA = US	Environmental Protection Agency			6
Laboratory R ELLE = Eu	eferences: Irofins Lancaster Laboratories Env. LLC. 2425 New Holland Pike. Lanca	ster. PA 17601. TEL (717)656-2300		7

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins QC, LLC - Horsham, PA

EQC Picksheet: P7263525	Expected: MONDAY 08/02/21 - 09 Project Name: VILLAGE OF NYACK WATER T	9/30/21 REATMENT PLANT	LAB USE ONLY	Bottle Type		2
GILBERT FRANCOIS VILLAGE OF NYACK WATER TREATMENT PLANT	Start Date: 02/19/21 Stop Date: Comments/Schedule Details: CALL GILBERT TO SCHEDULE PRIOR	а то	# Naccondition for vitals # NA2S2O3 # NaOH/Zn acetate pH # HNO3 pH		630-21256 Chain of Custody	3
230 ROUTE 59 NYACK, NY 10960 (845)358-0641 (845)358-3734 GILERT FRANCOIS-PLANT (845)597-5424 GILERT FRANCOIS-CELL	SAMPLING: PLANT 845-358-3734, OF 845-597-5424	? CELL	# H2SO4 pH # NaOH pH # Unpreserved # HCL # NH4CL # MEOH			4 5
Route: 4	PWSID:	P s e	# Na2SO3/HCL # DI Water		GP/ER Time	
		e CC uHoo dPII oCii	Collection Collect Date (Militar	tion Time Total Free Cl2	BR2 Total CL2	7
7263525-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, DIOXANE, PFC			8126121 9:	50 72 5		
7263525-2 FIELD BLANK PFC HMININ III III III III III IIII IIII III			8126/21 9:2	17 1		
					Cooler ID:	
Sample Collected By Circle One Client		Required TAT: Stand	dard/Rush# Days			-L
Relinguished By Tin Carthy Jocelich 15:2	e Date Received By 6 8/26/21 # 29 / ER44	Time Dat		N Site Initials	All 17 compounds nee tested for	d to be
H. 07/00 17/00 T. 07/00 47/00 W. 07/00 17/00 TL: 07/00 47		08/13/21 CPS X:			FSR#: FS282072	
M: - T: - W: - Th: - F: - St:	- Sn:				Hazardous Y/N	

Page 10 of 11

Eurofins QC, LLC – Horsham, PA

Chain of Custody Record



eurofins Environment Testing America

Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567

213 Witmer Road

Client Contact: Shipping/Receiving Company: Eurofins Lancaster Laboratories Environm Vidress: 425 New Holland Pike,	Phone: Due Date Requeste 9/9/2021 TAT Requested (da	d:		E-Mai Erin.	Dou Accr	gher	ty@e	urofins	et.cor	n		State	a of Orig v York	in:			Page: Page 1 of	1	
Shipping/Receiving Zompany: Eurofins Lancaster Laboratories Environm Vidress: 2425 New Holland Pike,	Due Date Requeste 9/9/2021 TAT Requested (da	d:		Enn.	Accr	edital	ions R	uronns	et.cor	n		Nev	V YORK				Page 1 or	1	
Jurofins Lancaster Laboratories Environm Judress: 2425 New Holland Pike,	Due Date Requeste 9/9/2021 TAT Requested (da	d:			NE		and a second second	Dougnerty@eurofinset.com									Job #		
Mdress: 2425 New Holland Pike,	Due Date Requeste 9/9/2021 TAT Requested (da	d:				LAP	- Nev	v York	(000								630-21256	5-1	
	TAT Requested (da	ive).	Due Date Requested: 9/9/2021					Analysis Requested									Preservation Codes: A - HCL M - Hexane		
ancaster							18										B - NaOH C - Zn Acet	ate	N - None O - AsNaO2
State, Zip:							t of										D - Nitric Ac	id	P - Na2O4S
PA, 17601	00.4																F - MeOH		Q - Na2SO3 R - Na2S2O3
717-656-2300(Tel)	PO #:				6		637 637		1							2	G - Amchlor H - Ascorbio	Acid	S - H2SO4 T - TSP Dodecahydra
Email:	WO #:				s or N	(oN	N EPA									2	I - Ice J - Di Water		U - Acetone V - MCAA
Project Name: Village of Nvack	Project #: 63003671				e (Ye	as or	rep D									- unine	K - EDTA L - EDA		W - pH 4-5 Z - other (specify)
Site: Village of Nyack Qtly PFC	SSOW#:				Sampl	SD (Y	M NO									1000	Other:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewster, Sesolid, Pewsste/oll, Tissue, A=Air)	Field Filtered	Perform MS/N	637.1_DWI637.1 637.1_DWI637.1	(Hold)								Total Minhae	Spe	cial In	structions/Note:
	\sim	\times	Preservation	1 Code:	X	X										D		>	
POE, Lab Sink (630-21256-1)	8/26/21	09:50 Eastern	þrin	king Wat	Π		x									1	2		
Field Blank (630-21256-2)	8/26/21	09:47 Eastern	prin	king Wat				x									1		
					Ц														
					Π														
Note: Since laboratory accreditations are subject to change, Eurofins QC currently maintain accreditation in the State of Origin listed above for ana brought to Eurofins QC, LLC – Horsham, PA attention immediately. If all	C. LLC – Horsham, PA places ilysis/tests/matrix being analy requested accreditations are	the ownership zed, the samp current to dat	o of method, analy bles must be shipp te, return the signe	e & accredi ed back to t d Chain of (itation he Et Custo	rofins	pliance s QC, I testing	LC - Ho to said (ut subc orsham complic	ontract I , PA labo ance to	aboral pratory Eurofi	ories. 1 or othe 15 QC, I	This sam Instructure LLC – H	ple ship tions wi orsham,	ment is fo Il be prov PA.	orwarde ided. A	id under chain-r iny changes to a	of-custod accredita	y. If the laboratory doe tion status should be
Possible Hazard Identification						Sarr	ple l	Dispos	al (A	fee ma	y be	asse	ssed i	' samp	oles are	retai	ned longer t	han 1	month)
Unconfirmed							Re	urn To	Clien	t		Dispo	osal By	Lab		Arc	hive For		Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	able Rank:	1			Spe	cial Ir	struction	ons/Q	C Req	uirem	ents:							
Empty Kit Relinquished by:	1	Date:			Tin	ne:							Metho	d of Shi	pment:				
Relinquished by:	Date/Time:	1 1	930 ^{Co}	FE	C	_	Receiv	ed by:	29	(PF)	7s)			Da	ate/Time:				Company
Relinquished by:	Date/Time:		C0	mpany	/	-	Receiv	ed by:			-			Da	ite/fime:	_			Company
Relinquished by:	Date/Time:		Co	mpany			Receiv	ed by:	C	Q	\sim	-	/	Da	127	421	214	r	EUK.
Custody Seals Intact: Custody Seal No.: 29	(NFAS)						Cooler	Temper	alure(s) °C and	Other	Remar	ks:	2	.4				

Nyack Water Department

2021 QUARTER 4 SAMPLING REPORT

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 213 Witmer Road Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-24208-1

Client Project/Site: PFC, Dioxane Sampling Event: Quarterly PFC, Dioxane

For:

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert Francois

nicki Smith

Authorized for release by: 12/1/2021 10:16:50 AM Nicki Smith, Environmental Administration Manager (215)355-3900 Nicolette.Smith@eurofinset.com

Designee for Erin Dougherty, Project Administrator (215)355-3900 Erin.Dougherty@eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.





Visit us at: www.eurofinsus.com/Env Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

- Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

• Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

• Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

• EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

• Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

• The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

nicki Smith

Nicki Smith Environmental Administration Manager 12/1/2021 10:16:50 AM

2 3 4 5 6 7

Job ID: 630-24208-1

Laboratory: Eurofins QC, LLC – Horsham, PA

Narrative

Job Narrative 630-24208-1

Comments

No additional comments.

Receipt

The samples were received on 11/11/2021 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

LCMS

Method 537.1 DW: The recovery recovery for the internal standard peak area(s) and surrogate(s) in the following sample: Field Blank (630-24208-2) is outside the QC acceptance limits. Sufficient sample was not available to re-extract this sample.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work

Method 522 - EPA - EPA 522 - 1,4-Dioxane: This method was subcontracted to Eurofins Eaton Analytical - Monrovia. The subcontract laboratory certification is different from that of the facility issuing the final report.
3
5
8

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-24208-1	POE, Lab Sink	Drinking Water	11/11/21 09:30	11/11/21 16:45
630-24208-2	Field Blank	Drinking Water	11/11/21 09:27	11/11/21 16:45

Client Sample Results

RL

1.8

MDL Unit

0.45 ng/L

D

Analyzed

11/15/21 21:38

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Result Qualifier

5.1

Client Sample ID: POE, Lab Sink Date Collected: 11/11/21 09:30 Date Received: 11/11/21 16:45

Analyte

Perfluorohexanoic acid

Dil Fac Analyst

1 VK3G

Lab Sample ID: 630-24208-1 Matrix: Drinking Water

	5
	8

Perfluoroheptanoic acid	3.5		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Perfluorooctanoic acid	7.9		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Perfluorononanoic acid	1.5	J	1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Perfluorodecanoic acid	0.46	J	1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Perfluorobutanesulfonic acid	2.6		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Perfluorohexanesulfonic acid	2.4		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Perfluorooctanesulfonic acid	5.4		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
NEtFOSAA	ND		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
NMeFOSAA	ND		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Perfluorododecanoic acid	ND		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
HFPODA	ND		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
9CI-PF3ONS	ND		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
11CI-PF3OUdS	ND		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
DONA	ND		1.8	0.45	ng/L	11/15/21 21:38	1	VK3G
Surrogate	%Recovery	Qualifier	Limits			Analyzed	Dil Fac	Analyst
13C2 PFDA	109		70 - 130			11/15/21 21:38	1	VK3G
13C2 PFHxA	92		70 - 130			11/15/21 21:38	1	VK3G
13C3 HFPO-DA	88		70 - 130			11/15/21 21:38	1	VK3G
d5-NEtFOSAA	92		70 - 130			11/15/21 21:38	1	VK3G

Client Sample ID: Field Blank

Date Collected: 11/11/21 09:27 Date Received: 11/11/21 16:45

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018								
Analyte	Result Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluoroheptanoic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluorooctanoic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluorononanoic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluorodecanoic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluorotridecanoic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluorotetradecanoic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluorobutanesulfonic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluorohexanesulfonic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluorooctanesulfonic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
NEtFOSAA	ND *3	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
NMeFOSAA	ND *3	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluoroundecanoic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
Perfluorododecanoic acid	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
HFPODA	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
9CI-PF3ONS	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
11CI-PF3OUdS	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G
DONA	ND	1.9	0.47	ng/L		11/15/21 21:50	1	VK3G

Lab Sample ID: 630-24208-2

Matrix: Drinking Water

Eurofins QC, LLC - Horsham, PA

Client Sample Results

Job ID: 630-24208-1

Matrix: Drinking Water

Lab Sample ID: 630-24208-2

Client Sample ID: Field Blank Date Collected: 11/11/21 09:27 Date Received: 11/11/21 16:45

Surrogate %Recovery Qualifier Limits Analyzed Dil Fac Analyst 13C2 PFDA 107 70 - 130 11/15/21 21:50 1 VK3G 13C2 PFHxA 72 70 - 130 11/15/21 21:50 1 VK3G 13C3 HFPO-DA 68 S1-70 - 130 11/15/21 21:50 1 VK3G d5-NEtFOSAA 97 *3 70 - 130 11/15/21 21:50 1 VK3G

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: PFC, Dioxane Job ID: 630-24208-1

5

Laboratory: Eurofins Lancaster Laboratories Env, LLC Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Identification Number **Expiration Date** Program New York NELAP 10670 04-01-22 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte EPA 537.1 537.1 DW Prep **Drinking Water** 11CI-PF3OUdS EPA 537.1 537.1 DW Prep **Drinking Water** 9CI-PF3ONS FPA 537 1 537.1 DW Prep **Drinking Water** DONA EPA 537.1 537.1 DW Prep **Drinking Water HFPODA** EPA 537.1 **Drinking Water NEtFOSAA** 537.1 DW Prep **Drinking Water** NMeFOSAA EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorobutanesulfonic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorodecanoic acid EPA 537.1 537.1 DW Prep 537.1 DW Prep **Drinking Water** Perfluorododecanoic acid EPA 537.1 EPA 537.1 537.1 DW Prep **Drinking Water** Perfluoroheptanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorohexanesulfonic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorohexanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorononanoic acid **Drinking Water** Perfluorotetradecanoic acid EPA 537.1 537.1 DW Prep EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorotridecanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluoroundecanoic acid

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: PFC, Dioxane

Job ID: 630-24208-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	

- RPD Relative Percent Difference, a measure of the relative difference between two points
- TEF Toxicity Equivalent Factor (Dioxin)
- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Client: Village of Nyack Water Treatment Plant Project/Site: PFC, Dioxane

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
522	EPA 522 - 1,4-Dioxane	EPA	Eaton-Mon
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

Eaton-Mon = Eurofins Eaton Analytical - Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100 ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Eaton Analytical

750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

Eurofins QC, LLC 213 Witmer Road Horsham, PA 19044 Attention: Nicki Smith Fax: 215-392-0626

Date of Issue 11/30/2021 1 ANDSA **EUROFINS EATON ANALYTICAL, LLC**

ZIA8: Vanessa Berry

Project Manager

Report: 970748 Project: SUBCONTRACT Group: 1,4-Dioxane

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.

* Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis.

* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.

- * Test results relate only to the sample(s) tested.
- * Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
- * This report shall not be reproduced except in full, without the written approval of the laboratory.
- * This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.





Eaton Analytical

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA000062018
California	2813	New Hampshire *	2959
Colorado	Certified	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	Certified
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	18-005R	Oregon *	CA200003-005
Hawaii	Certified	Pennsylvania *	68-565
Idaho	Certified	Puerto Rico	Certified
Illinois *	200033	Rhode Island	LAO00326
Indiana	C-CA-01	South Carolina	87016
Iowa - Asbestos	413	South Dakota	Certified
Kansas *	E-10268	Tennessee	TN02839
Kentucky	90107	Texas *	T104704230-18-15
Louisiana *	LA180000	Utah (Primary AB) *	CA00006
Maine	CA0006	Vermont	VT0114
Maryland	224	Virginia *	460260
Commonwealth of Northern Marianas Is.	MP0004	Washington	C838
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264
Mississippi	Certified		

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC

750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 T | 626-386-1100 F | 866-988-3757 www.EurofinsUS.com/Eaton

ISO/IEC 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation Board/A2LA. Refer to Certificate and scope of accreditation (5890) found at: https://www.eurofinsus.com/Eaton

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ- mental (Drinking Water)	Environ- mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water	SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ- mental (Drinking Water)	Environ- mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,2,3-TCP (5 PPT & 0.5 PPT)	CA SRL 524M-TCP	x		x	Hexavalent Chromium	EPA 218.7	х		x
1,4-Dioxane	EPA 522	х		х	Hexavalent Chromium	SM 3500-Cr B		х	
2,3,7,8-TCDD	Modified EPA 1613B	x		х	Hormones	EPA 539	х		х
Acrylamide	In House Method (2440)	x		x	Hydroxide as OH Calc.	SM 2330B	х		x
Algal Toxins/Microcystin	In House Method (3570)				Kjeldahl Nitrogen	EPA 351.2		х	
Alkalinity	SM 2320B	х	х	x	Legionella	Legiolert	х		x
Ammonia	EPA 350.1		х	x	Mercury	EPA 200.8	х		x
Ammonia	SM 4500-NH3 H		X	x	Metals	EPA 200.7 / 200.8	X	Х	x
Anions and DBPs by IC	EPA 300.0	x	X	X	Microcystin LR	ELISA (2360)	X		X
Asbestos	EPA 100.2	x	x	^	NDMA	EFA 340 EEA/Agilent 521.1	x		x
BOD / CBOD	SM 5210B		x	x	Nitrate/Nitrite Nitrogen	FPA 353.2	×	x	x
Bromate	In House Method (2447)	x		x	OCL. Pesticides/PCB	EPA 505	x		x
Carbamates	EPA 531.2	x		x	Ortho Phosphate	EPA 365.1	х	х	х
Carbonate as CO3	SM 2330B	x	х	х	Ortho Phosphorous	SM 4500P E	х		х
Carbonyls	EPA 556	x		х	Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
COD	EPA 410.4 / SM 5220D		х		Perchlorate	EPA 331.0	х		х
Chloramines	SM 4500-CL G	x	х	x	Perchlorate (low and high)	EPA 314.0	х		x
Chlorinated Acids	EPA 515.4	х		х	Perfluorinated Alkyl Acids	EPA 537	х		x
Chlorinated Acids	EPA 555	х		x	Perfluorinated Polutant	In house Method (2434)	х		x
Chlorine Dioxide	SM 4500-CLO2 D Palin Test	x		х	рН	EPA 150.1	х		
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	х	рН	SM 4500-H+B	х	x	x
Conductivity	EPA 120.1		х		Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		х
Conductivity	SM 2510B	x	х	х	Pseudomonas	IDEXX Pseudalert (2461)	х		x
Corrosivity (Langelier Index)	SM 2330B	x		x	Radium-226	GA Institute of Tech	x		x
Cyanide, Amenable	SM 4500-CN G	x	х		Radium-228	GA Institute of Tech	х		x
Cyanide, Free	SM 4500CN F	х	х	x	Radon-222	SM 7500RN	х		x
Cyanide, Total	EPA 335.4	x	х	x	Residue, Filterable	SM 2540C	х	х	x
(screen)	In House Method (2470)	x		x	Residue, Non-filterable	SM 2540D		x	
Diquat and Paraquat	EPA 549.2	x		x	Residue, Total	SM 2540B		х	x
DBP/HAA	SM 6251B	x		x	Residue, Volatile	EPA 160.4		Х	
Dissolved Oxygen	SM 4500-0 G	~	X	X	Semi-VOC	EPA 525.2	X	×	X
DOC		^		^	Silica	SM 4500-SI D	^	^	
E. Coli	(MTF/EC+MUG)	x		x	Silica	SM 4500-SiO2 C	x	X	
E. Coli	CFR 141.21(f)(6)(i)	x		x	Sulfide	SM 4500-S ⁼ D		х	
E. Coli	SM 9223		x		Sulfite	SM 4500-SO ³ B	x	x	x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		X	Surfactants	SM 5540C	X	X	×
E. Coli (Enumeration)	SM 9223B	x		x	Taste and Odor Analytes	SM 6040E	X		×
EDB/DCBP	EPA 504.1	x		x	Total Coliform	SM 9221 A, B	x		x
	·····				(Enumeration)				
EDTA and NTA	In House Method (2454)	х		x	Total Coliform / E. coli	Colisure SM 9223	x		х
Endothall	EPA 548.1	x		x	Total Coliform with Chlorine	SM 9221B		×	
Endothall	In-house Method (2445)	x		x	Present Total Coliform / E.coli (P/A	SW 9221B		^	
	SM 9230B	x	х		and Enumeration)	SM 9223	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	X			TOV	SM 5310C	X	X	X
Fecal Coliform	SM 9221C, E (M1F/EC)		X		104	SIM 3320B		X	
(Enumeration)	SM 9221E (MTF/EC)	x		х	Total Phenols	EPA 420.1		x	
Fecal Coliform with Chlorine Present	SM 9221E		x		Total Phenols	EPA 420.4	x	x	x
Fecal Streptococci	SM 9230B	х	х		Total Phosphorous	SM 4500 P E		x	
Fluoride	SM 4500-F C	x	x	x	Triazine Pesticides & Degradates	In House (3617)	x		x
Glyphosate	EPA 547	х		х	Turbidity	EPA 180.1	х	х	x
Glyphosate + AMPA	In House Method (3618)	х		x	Turbidity	SM 2130B	х	х	
Gross Alpha/Beta	EPA 900.0	x	x	х	Uranium by ICP/MS	EPA 200.8	х		x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x	UV 254	SM 5910B	x		
Hardness	SM 2340B	x	х	x	VOC	EPA 524.2	х		x
Heterotrophic Bacteria	In House Method (2439)	х		x	VOC	In House Method (2411)	х		x
Heterotrophic Bacteria	SM 9215 B	х		х	Yeast and Mold	SM 9610	х		x
Hexavalent Chromium	EPA 218.6	х	х	х	Field Sampling	N/A			

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 https://www.eurofinsus.com/Eaton Version 006 Issued: 05/04/20

🔅 eurofin	S Faton Analytical		
		Acknowledgement of Samples Received	
Addr:	Eurofins QC, LLC 213 Witmer Road Horsham, PA 19044	Client ID: EUROFINS-QCLLC Folder #: 970748 Project: SUBCONTRACT	
Attn: Nicki Smith Phone: 215.355.3900x3360		Project Manager: Vanessa Berry Phone: 503-310-3905 PO #: 630-24208-1	4 5 6
The follo tests liste for using	wing samples were received fro ed below each sample. If this ir u Eurofins Eaton Analytical. LLC	om you on November 18, 2021 at 15:47 . They have been scheduled for the information is incorrect, please contact your service representative. Thank you	7
Sample #	Sample ID	Sample Date	8
202111190051	POE Lab Sink Variable ID: 630-24208-1	11/11/2021 0930	
	@Dioxane_70ppt		
Test D	escription		

@Dioxane_70ppt -- @DIOXANE_0.07PPB

Eurofins Environment Testing Philadelp	hia							🎎 eurofins	
213 Witmer Road Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567	LOVIN Chai	n of Cus	stody R	ecord				010	Environment Testing
Client Information (Sub Contract Lab)	Sampler:		Lab P Doug	M: (herty, Erin		Carrier Tracking N	o(s):	COC No: 630-6303.1	
Client Contact: Shinnin/Receiving	Phone:		E-Mai	: Doughertv@eurofinset.com		State of Origin: New York		Page: Page: 1 of 1	
ompringerecentring Company: Ecompany:)	Accreditations Required (See not NICI AD - New York	e):			Job #:	
Euronins Eaton Analytical Address: 750 Parts Drive Strine Strint 100	Due Date Requested:				Ivsis Rec	mested		Preservation Co	des:
City: Monrovia	TAT Requested (days):		7					A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State, Zip: CA, 91016								E - NaHSO4	P - Na204S Q - Na2SO3 P - Na2SO3
Phone: 626-386-1100(Tel)	PO#:			(əuex				G - Amchlor H - Ascorbic Acid	K - N425203 S - H2SO4 T - TSP Dodecahvdrate
Email:	#OM			s or <i>N</i> No) ,4-Dio				D - DI Water	U - Acetone V - MCAA
Project Name: PFC, Dioxane	Project #: 63003671			65 or 65 or				L-EDA	W - pH 4-5 Z - other (specify)
Site: Village of Nyack Qlty PFC	:#MOSS			Samp Aga - Aga -				6 Other:	
Commile Manuffication – Officert ID (1 ak 10)	Samulo Date	Type C=comp, C=comp,	Matrix (w=water, S=solid, O=wastefol,	bərətiiq biəi= M/2M mrotre ^c Aq∃ - ssa) 808					nstructions/Note.
		Preserv	ation Code:						
POE, Lab Sink (630-24208-1)	11/11/21 09:	00	brinking Wate	×				1	
	Eddau		1					100	
	-				_				
Note: Since laboratory accreditations are subject to change. Eurofins QC. L currently maintain accreditation in the State of Origin listed above for analys brought to Eurofins QC, LLC – Horsham, PA attention immediately. If all re-	LC – Horsham, PA places the own sis/tests/matrix being analyzed, the quested accreditations are current	ership of method, a samples must be s to date, return the s	nalyte & accredit hipped back to th signed Chain of C	ation compliance upon out subcon e Eurofins QC, LLC – Horsham, F ustody attesting to said complican	Itract laborator A laboratory on Ice to Eurofins	es. This sample shi r other instructions v QC, LLC – Horsham	pment is forwarde vill be provided. <i>I</i> 1, PA.	ed under chain-of-custo vny changes to accredi	dy. If the laboratory does not tation status should be
Possible Hazard Identification				Sample Disposal (A fe	e may be a	ssessed if sam	ples are retai	ned longer than 1	month)
Uncontrumed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Ra	ank: 1		Special Instructions/QC	Requireme	risposar by Lau rits:	SIK		INDIRIS
Empty Kit Relinquished by:	Date:			Time:		Method of Sh	ipment:		10
Relinquished by	Date/Time: Date/Time:	200	Company	Received by:	Z		ate/Time:		Company
Relinquished toy.	Date/Time:		Company	Received by:	- (a	ate/Time: 11.1.8-2	147	Company
Relinquished by:	Date/Time:		Company	Received by:		0	ate/Time:		Company
Custody Seals Intact: Custody Seal No.:	「国」ノーに通		State of the	Cooler Vemperature(s) °	C and Other R	emarks:			
			×.						Ver: 06/08/2021

Test >6mm Results: Samp ID Bottle # None/<6 . Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Exampt from headspace concerns: Mathods af5.4, HAA(6261,552), 505, 596, 632LCMS, 555, 536, Anatoxin, LCMS methods using 40 ml Vials, International clients: le # Nonel<6 >6mm Test samp ID Bottle # Nonel<6 >6mm Test samp ID Bottle # Nonel<6 >6mm Test samp ID Bottle # mm 1548 0 Note: if samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not. 0 N/A TIME TIME = lanit) (D' "C) (Final " 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours) Thawed Expiration Date INTERNAL CHAIN OF CUSTODY RECORD 1.18.2 DATE DATE Samples with Headspace (see below): C) (Corr.Factor C) (Corr.Faclor SAMPLES REC'D DAY OF COLLECTION? Yes NO 4 DloxIn (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection) CONDITION OF ICE: Frozen ____ Partially Frozen 4 = (Observetion 2 - (Dbservalion ŝ Eurofins Ealon Analytical Eurofins Ealon Analylical Results COMPANY/TITLE COMPANYITICE 1.4 METHOD OF SHIPMENT: Pick-Up / Walk-In / (FedEX) / UPS / DHL / Area Fast / Top Line / Other: 5 pH strip type: 0 - 14 0 0. °C) (Final = SAMPLE TEMP RECEIVED: 1) Chemistry: >0, <0°C, not frozen (NELAP) (If received after 24 hrs of sample collection) 3) Microblology, Surface Water: < 10°C (If received after 2 hours of sample collection) "C) (Finel " -C) (Final Expiration Date: (Observation= 1.5 °C) (Corr.Factor -6.1 Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): ·C) (Corr.Faulo C) (Carr.Faclar achie RINT NAME Lot Number: PRINT NAM No Samples with Headspace: 3 = (Observation= 1 × (Observation 6) Chlorine check. Manufacturer: Sansafe. Lot No.: 100 No Ice samples and lamperature does not confirm, then measure the lamperature of each quadrant and record each lamperature of the quadrante If out of temperature range for both Chemistry and Microblology Eaton Analytical Synthetic. 840060 Compliance Acceptance Criteria: ? 5) pH Check. Manufacturer: (O) = O + OTYPE OF ICE: Real NATURE 7) VOA and Radon Headspace: COC BY eurofins QA FO-FIIM5504 (9.28.21) Ver 9 EEA Folder Number: Samp ID Boltle # BAMPLES CHECH ECEIVED BY

04

Page_



Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)

Eurofins QC, LLC Nicki Smith 213 Witmer Road Horsham, PA 19044 Laboratory Comments

Report: 970748 Project: SUBCONTRACT Group: 1,4-Dioxane

The Comments Report may be blank if there are no comments for this report.



Eurofins QC, LLC

Nicki Smith 213 Witmer Road Horsham, PA 19044

Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Laboratory Data

Samples Received on:

11/18/2021 15:47

Report: 970748

Project: SUBCONTRACT

Group: 1,4-Dioxane

Prepared	Analyzed	Prep Batch	Analyze Batch	Method	Analyte	Result	Units	MDL	MRL	Dilution
<u>POE La</u>	ab Sink (20211	<u>1190051)</u>					Sampled	l on 11/11/2	021 093	0
	Variab	le ID: 630)-24208-1							
	E	PA 522 - @		_0.07PPB						
11/23/21	11/24/21 14:41	1369484	1369779	(EPA 522)	1,4-Dioxane	ND	ug/L	0.018	0.070	1
11/23/21	11/24/21 14:41	1369484	1369779	(EPA 522)	Dioxane-d8	97	%			1
11/23/21	11/24/21 14:41	1369484	1369779	(EPA 522)	THF-d8	129	%			1

ND - Analyte was not detected at the calculated MDL. J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria. (c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further

calculation may have slight differences in final result than the component analyses.



Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)

Eurofins QC, LLC

@DIOXANE_0.07PPB

Prep Batch: 1369484 Analytical Batch: 1369779

202111100051

202111190051

POE Lab Sink

Laboratory QC Summary

Report: 970748 Project: SUBCONTRACT Group: 1,4-Dioxane

Analysis Date: 11/24/2021 Analyzed by: X8AA



Eurofins QC, LLC

Analyte

THF-d8 (I)

THF-d8 (I)

QC Type

MRL_CHK

MS2_202111190968

MSD2_202111190968 THF-d8 (I)

Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)

RPD

Limit(%)

Yield(%) Limits (%)

Report: 970748 Project: SUBCONTRACT Group: 1,4-Dioxane

Units

%

%

%

108

123

115

(50-150)

(50-150)

(50-150)

Recovered

108

122

115

	4

RPD%

2.1

@DIOXANE_0.07P	PB by EPA 522							
Prep Batch:	1369484 Analytical Batch: 1369779				1	Analysis [Date: 11/24/2	2021
LCS1	1,4-Dioxane		20	18.2	ug/L	91	(70-130)	
MBLK	1,4-Dioxane			<0.023	ug/L			
MRL_CHK	1,4-Dioxane		0.07	0.0730	ug/L	104	(50-150)	
MS2_202111190968	1,4-Dioxane	ND	10	9.27	ug/L	93	(70-130)	
MSD2_202111190968	1,4-Dioxane	ND	10	9.47	ug/L	95	(70-130)	20
LCS1	Dioxane-d8 (S)			94.8	%	95	(70-130)	
MBLK	Dioxane-d8 (S)			94.7	%	95	(70-130)	
MRL_CHK	Dioxane-d8 (S)			93.4	%	93	(70-130)	
MS2_202111190968	Dioxane-d8 (S)			92.0	%	92	(70-130)	
MSD2_202111190968	Dioxane-d8 (S)			95.4	%	95	(70-130)	
LCS1	THF-d8 (I)			112	%	112	(50-150)	
MBLK	THF-d8 (I)			109	%	109	(50-150)	

Native Spiked

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method. RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.
 (I) - Indicates internal standard compound.

EUROFINS QC, LLC Cust: W09890 Schd: 55659	Expected: MONDAY 11/01/21 - Project Name: VILLAGE OF NYACK WATER Start Date: 02/19/21 Stop Date:	12/31/21 TREATMENT PLANT	LAB USE ONLY # Ascorbic/I	E HCL Vials #	Bottle Type	HCL Vials			
GILBERT FRANCOIS VILLAGE OF NYACK WATER TREATMENT PLANT 230 ROUTE 59	Comments/Schedule Details: CALL GILBERT TO SCHEDULE PRIC SAMPLING: PLANT 845-358-3734 (DR TO	# NA2S2O3 # NaOH/Zn # HNO3	асеtаtе pH pH					
NYACK, NY 10960	845-597-5424		# H2SO4 # NaOH	рН pH					
(845)358-0641 (845)358-3734 GILERT FRANCOIS-PLANT (845)597-5424 GILERT FRANCOIS-CELL			# Unpreserv # HCL # NH4CL # MEOH	ea					5
Route: 4 SARA CAMACHO	PWSID:	P s e e C C	# Na2SO3/H # DI Water	ICL		Field	Tests By: (GP)	ER /Time:	
		U H O O d P I I o C i i	Collection Date	Collection Tim (Military)	e Total # Bottles	Free Cl2 mg/L	pH/TempC YES/	Total CL2 /NO mg/L	7
7273817-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, DIOXANE, PFC			11/11/2	9:30	3				8
FIELD WORK CODE:									
7273817-2 FIELD BLANK PFC					1				
			11/11/2	9:27					
FIELD WORK CODE:									
									-
									_
								^{Loc: 630} 24208	
				63	0-24208 C	hain of Custo	dy		
Sample Collected By Circle One	Initials	Required TAT: Star	ndard/Rush# Days]		
Ulutin Fadder Client (EC	c) COP	1			-		Comments (report	ing, methods, etc)	
Relinquished By	Date Received By		ate Temp	Iced Y/N	Site	Initials			

Caitlin Paddu	16:45	1/11/2)	ER90/ER229	16:45	11/11/21	2.8°t	Y	ER	Свр	
4: 07:00-17:00 T: 07:00-17:00 W: 07:00-17:00 Th: 4: - T: - W: - Th: - F:	: 07:00-17:00 - St:	F: 07:00-17:00 - Sn: -	St: - Sn: - Printed: 1	0/17/21 GP	S X:	¥:				Hazardous Y/N

Eurofins Environment Testing Philadelphia-

Chain of Custody Record



Securofins Environment Testing America

Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567

213 Witmer Road

Client Information (Sub Contract Lab)	Sampler:			Lab PM	t: hertv	Eric	1					Carri	er Trac	king N	0(8):			630-6263.1		
Client Contact:	Phone:			E-Mail:						-		State	of Ong	jin:		-		Page:		
Shipping/Receiving				Erin.D)oug	herty	@eur	ofinse	t.com			Nev	v York				_	Page 1 of 1		
Eurofins Lancaster Laboratories Environm				í	NEL/	AP - 1	New Y	ork	ee note	<i>.</i>								630-24208-1		
Address: 2425 New Holland Pike	Due Date Requeste	ed:							Ana	lysis	Rer		ted					Preservation Codes:		
City:	TAT Requested (da	iys):																A-HCL M B-NaOH N	- Hexane - None	
Lancaster						f 18	118											C - Zn Acetate O	- AsNaO2	
State, 20p. PA, 17601						List o	Listo											E - NaHSO4 Q	- Na2SO3	
Phone: 717.656.2200/Tol)	PO #:					37.11	37.1											G - Amchlor S	- Na2S2O3 - H2SO4	
Email:	WO#:				Ŷ	PA 5	PA 5											H - Ascorbic Acid T I - Ice U	- TSP Dodecahydrate - Acetone	
		12-00		_	Nol	ME	DWE										2	J - DI Water V K - EDTA W	- MCAA - pH 4-5	
Project Name: PFC, Dioxane	63003671			i		dau	l dau										tain	L-EDA Z	- other (specify)	
Site:	SSOW#:				de N	A N	d_W										CON	Other:		
Village of Nyack Qtly PFC				_	d Sa		5										ar of			
			Sample Ma	trix	Also A	NI53	N1537				*						qu			
		Sample	C=comp.	olid,	ie Fi	6	D P										N In			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT-Tise	e, A=Air)	e L	537	537. (Hol										Tot	Special Instr	uctions/Note:	
	\rightarrow	\geq	Preservation C	ode:	$\mathbf{\nabla}$												X			
POE, Lab Sink (630-24208-1)	11/11/21	09:30 Eastern	Prinkin	g Wate		X											2			
Field Blank (630-24208-2)	11/11/21	09:27	Prinkin	g Wate			X										1			
		Lastern		-+	+	+	+				+-						-			
					+	+	+	++	+	+	-	-	$\left \right $	+		+	+			
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					+	-		\vdash	+		+	-	$\left \right $	-		_				
Note: Since laboratory accreditations are subject to change, Eurofins QC, Ll currently maintain accreditation in the State of Origin listed above for analys to Eurofins QC, LLC – Horsham, PA attention immediately. If all requested	LC – Horsham, PA places t is/tests/matrix being analyz accreditations are current to	he ownership (ed, the sample o date, return t	of method, snalyte & ar as must be shipped bar the signed Chain of Cur	creditation of the last of the	on con Eurofii Isting	npliane ns QC to said	ce upor , LLC - 1 comp	n out su - Horsha licance (bcontra im, PA to Eurol	ict labor laborati fins QC	ratories ory or c , LLC -	ther in Hors	sampl struction ham, P.	e shipi ons wil A.	ment is Il be pro	forward vided.	ded ur Any c	nder chain-of-custody. If the changes to accreditation st	e laboratory does not atus should be brought	
Possible Hazard Identification					S	ampl	e Dis	posal	(A fe	e maj	y be a	isses	sed i	f san	nples	are re	etain	ed longer than 1 m	onth)	
Unconfirmed					1		Retur	n To C	lient			Dispo	sal B	y Lab			Arcl	hive For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	1		S	pecia	i Instr	uction	s/QC	Requi	reme	nts:								
Empty Kit Relinquished by:		Date:		ľ	Time	1:							Metho	d of Si	hipment	t.				
Relinquished by Carth Jadden	Date/Time:	1/21/	(6.45 Compa	"EG	X	Rec	ceived I	ру			/			ſ	Date/Tin	ne:		C	ompany	
Relinquished by	Date/Time: U	/	Compa	ny	/	Rec	seived I	by	_	1				1	Date/Tin	ne:		C	ompany	
Relinquished by:	Date/Time:		Compa	ny/		Rec	bevied I	oy: //	Q	m	_	_	_	- [Date/Tin		21	2130	EUET	
Custody Seals Intact: Custody Seal No.: ▲ Yes) △ No		94 () 			2	Cod	oler Ter	nperatu	re(s) °C	and O	ther Re	emarks	2	Ø	PC		5	SUE=	2.7	
\forall				~ 1														V	er: 06/08/2021	

Nyack Water Department

2022 QUARTER 1 SAMPLING REPORT

Environment Testing America

ANALYTICAL REPORT

Eurofins Philadelphia 213 Witmer Road Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-27428-1

Client Project/Site: PFC, Dioxane Sampling Event: Quarterly PFC, Dioxane

For:

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert Francois

nicki Smith

Authorized for release by: 2/28/2022 4:33:11 PM Nicki Smith, Environmental Administration Manager (215)355-3900 Nicolette.Smith@eurofinset.com

Designee for Erin Dougherty, Project Administrator (215)355-3900 Erin.Dougherty@eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Visit us at: www.eurofinsus.com/Env

The

Expert

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

- Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

• Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

• Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

• EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

• Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

• The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

nicki Smith

Nicki Smith Environmental Administration Manager 2/28/2022 4:33:11 PM

Job ID: 630-27428-1

Laboratory: Eurofins Philadelphia

Narrative

Job Narrative 630-27428-1

Receipt

The samples were received on 2/14/2022 4:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

SUBCONTRACTING

The following analysis was subcontracted to Eurofins Eaton Analytical: 522 - EPA - EPA 522 - 1,4-Dioxane

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Subcontract Lab non-Sister Lab

See attached subcontract report.

Sample Summary

Client: Village of Nyack Water Treatment Plant Project/Site: PFC, Dioxane

3
5

l ah Sample ID	Client Sample ID	Matrix	Collected	Received
630-27428-1	POE, Lab Sink	Drinking Water	02/14/22 13:59	02/14/22 16:12
630-27428-2	Field Blank	Drinking Water	02/14/22 13:44	02/14/22 16:12

Client Sample ID: POE, Lab Sink Date Collected: 02/14/22 13:59

Date Received: 02/14/22 16:12

Method: EPA 537.1 - EPA 537.1	, Ver 1.0 Nov 201	8							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	3.7		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluoroheptanoic acid	3.0		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluorooctanoic acid	7.3		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluorononanoic acid	1.4	J	1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluorodecanoic acid	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluorobutanesulfonic acid	2.5		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluorohexanesulfonic acid	2.0		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluorooctanesulfonic acid	4.0		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
NEtFOSAA	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
NMeFOSAA	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
HFPODA	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
9CI-PF3ONS	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
11CI-PF3OUdS	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
DONA	ND		1.8	0.45	ng/L		02/27/22 23:45	1	DCS9
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	89		70 - 130				02/27/22 23:45	1	DCS9
13C2 PFHxA	80		70 - 130				02/27/22 23:45	1	DCS9
13C3 HFPO-DA	84		70 - 130				02/27/22 23:45	1	DCS9
d5-NEtFOSAA	93		70 - 130				02/27/22 23:45	1	DCS9

Client Sample ID: Field Blank

Date Collected: 02/14/22 13:44 Date Received: 02/14/22 16:12

Method: EPA 537.1 - EPA 537.1,	Ver 1.0 Nov 2018							
Analyte	Result Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluoroheptanoic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluorooctanoic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluorononanoic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluorodecanoic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluorotridecanoic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluorotetradecanoic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluorobutanesulfonic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluorohexanesulfonic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluorooctanesulfonic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
NEtFOSAA	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
NMeFOSAA	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluoroundecanoic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
Perfluorododecanoic acid	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
HFPODA	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
9CI-PF3ONS	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
11CI-PF3OUdS	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9
DONA	ND	1.9	0.47	ng/L		02/27/22 23:56	1	DCS9

Eurofins Philadelphia

Job ID: 630-27428-1

Matrix: Drinking Water

Lab Sample ID: 630-27428-1

Lab Sample ID: 630-27428-2

Matrix: Drinking Water

Matrix: Drinking Water

Lab Sample ID: 630-27428-2

Client Sample ID: Field Blank Date Collected: 02/14/22 13:44 Date Received: 02/14/22 16:12

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	98		70 - 130	02/27/22 23:56	1	DCS9
13C2 PFHxA	85		70 _ 130	02/27/22 23:56	1	DCS9
13C3 HFPO-DA	95		70 _ 130	02/27/22 23:56	1	DCS9
d5-NEtFOSAA	93		70 _ 130	02/27/22 23:56	1	DCS9

Client: Village of Nyack Water Treatment Plant

Job ID: 630-27428-1

Project/Site: PFC, Dioxane Laboratory: Eurofins Lancaster Laboratories Env, LLC Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Identification Number Expiration Date Program New York NELAP 10670 04-01-22 5 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte 11CI-PF3OUdS Drinking Water EPA 537.1 537.1 DW Prep EPA 537.1 537.1 DW Prep **Drinking Water** 9CI-PF3ONS EPA 537.1 537.1 DW Prep **Drinking Water** DONA EPA 537.1 537.1 DW Prep Drinking Water **HFPODA NEtFOSAA** FPA 537 1 537.1 DW Prep Drinking Water EPA 537.1 537.1 DW Prep **Drinking Water** NMeFOSAA EPA 537.1 537.1 DW Prep Drinking Water Perfluorobutanesulfonic acid EPA 537.1 537.1 DW Prep Drinking Water Perfluorodecanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluorododecanoic acid EPA 537.1 537.1 DW Prep **Drinking Water** Perfluoroheptanoic acid EPA 537.1 537.1 DW Prep Drinking Water Perfluorohexanesulfonic acid 537.1 DW Prep **Drinking Water** Perfluorohexanoic acid EPA 537.1 EPA 537.1 537.1 DW Prep Drinking Water Perfluorononanoic acid Drinking Water Perfluorotetradecanoic acid EPA 537.1 537.1 DW Prep 537.1 DW Prep **Drinking Water** Perfluorotridecanoic acid EPA 537.1 EPA 537.1 537.1 DW Prep **Drinking Water** Perfluoroundecanoic acid Qualifiers LCMS Qualifier **Qualifier Description** J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. Glossary Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis ¤ %R Percent Recovery 1C Result is from the primary column on a dual-column method. 2C Result is from the confirmation column on a dual-column method. CFL **Contains Free Liquid** CFU Colony Forming Unit CNF Contains No Free Liquid Duplicate Error Ratio (normalized absolute difference) DER Dil Fac **Dilution Factor** DL Detection Limit (DoD/DOE) DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

- MDA Minimum Detectable Activity (Radiochemistry)
- MDC Minimum Detectable Concentration (Radiochemistry)
- MDL Method Detection Limit

Client: Village of Nyack Water Treatment Plant Project/Site: PFC, Dioxane

Job ID: 630-27428-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	5
MQL	Method Quantitation Limit	J
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	8
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

TNTC Too Numerous To Count

1 2

Eurofins Philadelphia

Client: Village of Nyack Water Treatment Plant Project/Site: PFC, Dioxane

28-1	
	5
	6
	0

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
522	EPA 522 - 1,4-Dioxane	EPA	Eaton-Mon
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

Eaton-Mon = Eurofins Eaton Analytical - Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100 ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Eaton Analytical

750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

Eurofins QC, LLC 213 Witmer Road Horsham, PA 19044 Attention: Nicki Smith Fax: 215-392-0626

Date of Issue 02/21/2022 1 ANDSA **EUROFINS EATON ANALYTICAL, LLC**

ZIA8: Vanessa Berry

Project Manager

Report: 987571 Project: SUBCONTRACT Group: 1,4-Dioxane

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.

* Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis.

* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.

- * Test results relate only to the sample(s) tested.
- * Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
- * This report shall not be reproduced except in full, without the written approval of the laboratory.
- * This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.



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Eaton Analytical

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	NE-OS-21-13
Arkansas	CA00006	Nevada	CA00006
California	2813	New Hampshire *	2959
Colorado	CA00006	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	CA00006
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	21-008R	Ohio - 537.1	87786
Hawaii	CA00006	Oregon *	4034
Idaho	CA00006	Pennsylvania *	68-00565
Illinois	200033	Puerto Rico	CA00006
Indiana	C-CA-01	Rhode Island	LAO00326
Iowa – Asbestos	413	South Carolina	87016
Kansas *	E-10268	South Dakota	CA11320
Kentucky	90107	Tennessee	TN02839
Louisiana *	LA008	Texas *	T104704230-20-18
Maine	CA00006	Utah (Primary AB) *	CA00006
Maryland	224	Vermont	VT0114
Marianas Islands	MP0004	Virginia *	460260
Massachusetts	M-CA006	Washington	C838
Michigan	9906	EPA Region 5	CA00006
Mississippi	CA00006	Los Angeles County Sanitation Districts	10264

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC

750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 T | 626-386-1100 F | 866-988-3757 www.EurofinsUS.com/Eaton

ISO/IEC 17025:2917 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA. Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at: https://www.eurofinsus.com/Eaton

		https://	/www.eu
Test(s)	Method(s)	Potable	Waste
1001(0)	inotitod(c)	Water *	Water
Enterococci Escherichia coli	Enterolert SM 9221 B 1	X	X
(Enumeration)	SM 9221 F	x	
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	х	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x
Heterotrophic Bacteria	SM 9215 B	X	
Pseudomonas aeruginosa	Idexx	x	
Total Coliform (P/A and	Pseudalert SM 9221A, SM	×	×
Enumeration) Total Coliform, Total	9221B, SM 9221 C	^	^
Coliform with Chlorine Present	SM 9221 B	X	x
Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x	
Total Microcystins and Nodularins	EPA 546	Х	
Yeast and Mold	SM 9610	Х	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M- TCP	х	
1,4-Dioxane	EPA 522	Х	
2,3,7,8-TCDD	Modified EPA 1613 B	х	
Acrylamide	+ LCMS 2440)	х	
Algal Toxins/Microcystin	+ LCMS 3570	X	
Alkalinity	SM 2320B	X	X
Ammonia	SM 4500-NH3 H		x
Asbestos	EPA 100.2	x	х
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x
BOD/CBOD	SM 5210 B		х
Bromate	+ LCMS- 2447	х	
Carbonate as CO3	SM 2330 B	X	X
Carbonyls	EPA 556	X	X
Chemical Oxygen Demand	SM 5220D		х
Chlorinated Acids	EPA 515.4	х	
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	х	
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-CI G	x	
Color	SM2120B	Х	
Conductivity	EPA 120.1, SM 2510B	х	x
Corrosivity (Langelier	011120100		
Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x	
Cyanide (Amenable)	SM 4500-CN G	х	x
Cyanide (Free)	SM 4500CN F	х	х
Cyanide (Total)	EPA 335.4	х	х
Cyanogen Chloride	* 335 Mod (WC-24467)	х	
Diguat and Paraguat	EPA 549.2	х	
DBP and HAA	SM 6251 B	х	
Dissolved Organic Carbon	SM 5310 C	х	
Dissolved Oxygen	SM 4500-O G		Х
EDB/DCBP/TCP	EPA 504.1	X	
Disinfection Byproducts	EPA 551.1	x	
EDTA and NTA	+ WC-2454	X	
Endothall	EPA 548.1, +(LCMS-2445)	x	
Fluoride	SM 4500F C	X	Х
Glyphosate and AMPA	+LCMS-3618	X X	
Gross Alpha and Gross Beta	FPA 900 0	y v	×

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	х	x
Hardness	SM 2340 B	х	Х
Hexavalent Chromium	EPA 218.6,	х	х
Hexavalent Chromium	EPA 218.7,	х	
Hexavalent Chromium	SM 3500-Cr B		х
Inorganic Anions and DBPs	EPA 300.0	х	х
Norganic Anions and DBPs	EPA 300.1	х	
Kjeldahl Nitrogen	EPA 351.2		х
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353 2	x	×
Odor	SM2150B	x	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Organohalide Pesticides and PCB	EPA 505	x	
Ortho Phosphate	SM 4500P E	x	
Oxyhalides Disinfection	EDA CITO		
Byproducts	EPA 317.0	X	
Perchlorate	EPA 331.0	х	
Perchlorate (Low and High Levels)	EPA 314.0	x	
Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
PPCP and EDC	+ LCMS-2443	х	
рН	EPA 150.1 SM 4500-H+ B	x	x
Phenolics – Low Level	⁺ WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
Phenylurea Pesticides/Herbicides	+LCMS-2448	x	
Radium-226, Radium-228	GA Tech (Rad- 2374)	х	
Radon-222	SM 7500RN	х	
Residue (Filterable)	SM 2540C	х	х
Residue (Non-Filterable)	SM 2540D		х
Residue (Total)	SM 2540B		х
Residue (Volatile)	EPA 160.4		х
Semi-Volatile Compounds	EPA 525.2	x	
Silica	SM 4500-SiO2 C	x	x
Sulfide	SM 4500-S D		Х
Sulfite	SM 4500-SO3 B	х	Х
Surfactants	SM 5540C	x	Х
Taste and Odor	SM 6040 E	х	
Total Organic Carbon	SM 5310 C	х	x
Total Phenols	EPA 420.1		х
Total Phenols	EPA 420.4	X	х
Triazine Pesticides and their Degradates	+ LCMS-3617	x	
Turbidity	EPA 180.1	х	Х
Uranium by ICP/MS	EPA 200.8	x	
UV 254 Organic Constituents	SM 5910B	х	
VOCs	EPA 524.2	х	
	+ (GCMS 2412)		
VOCs	by EPA 524.2 modified	x	

(*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.
(+) In-House Method

The follo listed be using Eu	wing samples were received from you on Febru low each sample. If this information is incorrect, irofins Eaton Analytical, LLC.	ary 15, 2022 at 1813 . They have been scheduled for the tests please contact your service representative. Thank you for	7				
			-				
	PO #: 630-27428-1						
Attn: Phone:	Nicki Smith 215.355.3900x3360	Project Manager: Vanessa Berry Phone: 503-310-3905	5				
	213 Witmer Road Horsham, PA 19044	Folder #: 987571 Project: SUBCONTRACT Sample Group: 1,4-Dioxane					
Addr:	Eurofins QC, LLC	Client ID: EUROFINS-QCLLC					
ç, curonn	Eaton Analytical Acknowledge	ment of Samples Received					

@Dioxane_70ppt -- @DIOXANE_0.07PPB

Page 1 of 1

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rofins E	Witmer Roa



Eurofins Environment Testing Philadelphi	a-					at enrofine	
213 Witmer Road Horsham. PA 19044-0962	Chain	of Custo	dy Recor	q		the second	Environment Testing
Phone: 215-355-3900 Fax: 888-785-8567	c		I oh DIA.		arriar Tracking No(e).	COC No.	F
Client Information (Sub Contract Lab)	Sampler.		Dougherty, El	i	לפווופו וומראווא ואטלפן.	630-7019.1	
Client Contact Shipping/Receiving	Phone:		E-Mail: Erin.Dougher	ty@eurofinset.com	state of Origin: Vew York	Page: Page 1 of 1	
Company: Eurofins Eaton Analytical			Accreditati NELAP	ons Required (See note): - New York		Job #: 630-27428-1	
Address: 750 Roval Oaks Drive. Suite 100.	Due Date Requested: 2/28/2022	ß	200	Analysis Red	lested	Preservation Co	des: M Hornoo
City: Monrovia State, Zip:	TAT Requested (days):					A - NOL B - NOCH C - ZN Acetate D - Nitric Acid E - NaHSO4	m - nexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3
CA, 91016 Prone: Presse:1100/Tell	HO4			(aut		F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S203 S - H2SO4 T - TSP Dodecahvdrate
Email:	,# OM		(o) ol No	xoid-4		J - DI Water	U - Acetone V - MCAA
Project Name: PFC, Dioxane	Project #: 63003671		es or l	'L - ΖΖ <u>Ϋ</u>		tainen L-EDA L-EDA	W - PH 4-5 Z - other (specify)
site: Village of Nyack Qtty PFC	SSOW#:		Iqms2	. A93		Other:	
Sommelo Lidonětičnosticos – Clidant ID (Lido HID)	Sample Sample	Type (C=comp, or C=comp, or C=com	Aatrix Aatrix Matrix Ma	A93 - 522) 8U8		Total Number O C C C	nstructions/Note:
	X	Preservation	Code: XX				
POE, Lab Sink (630-27428-1)	2/14/22 13:59 Eastern	brint	king Wate	×		-	
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			- 1. July				
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			ýs ie				
Note: Since laboratory accreditations are subject to change, Eurofins Environn laboratory does not currently maintain accreditation in the State of Origin listed accreditation status should be brought to Eurofins Environment Testing Philad-	nent Testing Philadelphia, LLC places t a bove for analysis/tests/matrix being elphia, LLC attention immediately. If al	the ownership of me analyzed, the sampl requested accredi	thod, analyte & accretes must be shipped b	Itation compliance upon out subcontrace upon out subcontrace to the Eurofins Environment Testing tate, return the signed Chain of Custody	t laboratories. This sample shit Philadelphia, LLC laboratory or attesting to said complicance to	pment is forwarded under cl other instructions will be pr o Eurofins Environment Tes	hain-of-custody. If the ovided. Any changes to ting Philadelphia, LLC.
Possible Hazard Identification			Sam	ple Disposal (A fee may be a	ssessed if samples are i	retained longer than	1 month)
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank:	-	Spec	Leturn To Client D Client C Client D	isposal By Lab	Archive For	Months
Empty Kit Relinguished for:	Date:		Time:		Method of Shipment:		
Relinquished by:	Date/Time: 201 15	Con Con	pany /	teceived by: A C. R.	Date/Time:	15.2022	Company
Relinquishey by:	Date/Time:	Con	pany F	teceived by	Date/Time:		Company
Relinquished by:	Date/Time:	Сол	Pany F	teceived by:	Date/Time:		Company
Custody Seals Intact: Custody Seal No.: A Yes A No				cooler Temperature(s) ^o C and Other Rei	narks: RZ S G	100	
					~ ~ ~		Ver: 06/08/2021

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J OF CUSTODY RECORD ECEIVED: ECEIVED: perature range, let the ASMs know, ASMs will determine whether to proceed with analysis or not. DAY OF COLLECTION? Yes / No oC) (Final = 5.5. °C) •C) (Final = 5.5. °C) E: Frozen Partially Frozen Thawed N/A	/ Top Line / Other:	lee the same day as sample collection, within o round, lection) c) (Final	ed after 24 hrs of sample collection) rip type: 0 - 14 or Expiration DateResults: Date: Results	Samples with Headspace (see below): Radon Internal COFC for additional bottles) Ms, 556, 536, Anatoxin, LCMS or additional bottles) Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Nonel<6 >6mm Test mm Test	COMPANYITTLE DATE TIME Eurofins Eaton Analytical 02.15.2022 18.13 COMPANYITTLE DATE TIME COMPANYITTLE DATE TIME	
INTERNAL CHAIN SAMPLE TEMP RI SAMPLES REC'D I SAMPLES REC'D I stion= 5.8 °C) (Corr. Factor 0.3 No Ice CONDITION OF ICI	K-In (FedEx)/ UPS / DHL / Area Fast	C, not frozen (can be ≥10°C If received on 0°C (If received after 2 hours of sample co by 1 = (Devervation=	st be between 0-4 °C, not frozen (if receiv Lot Number:	mples with Headspace: ocumentation (use additional VOC and biods 515.4, HAA(8251,505, 595, 5976, 604, 532L Samp ID Bottla # None/<8 >6mm Tast	adspace (I.e. potential sampling errors): PRINT NAME PELITIVEP PRINT NAME	а 8 2
EEA Folder Number: Control Eaton Analytice	METHOD OF SHIPMENT: Plck-Up / Wal Compliance Acceptance Criteria: 1) Chemistry: >0, ≤ 6°C, not frozen (h	 2) Microbiology, Distribution: <10° 3) Microbiology, Surface Water: <11 11 out of temperature range for both Chemistry and Microbiolo samples and lamperature for a not confirm, then measure the lamperature of each quadrant and record each temperature of each quadrant and record each quadrant and record each quadrant and record each quadrant	4 Dioxin (1613 or 2,3,7,8 TCDD): mt 5) pH Check. Manufacturer: 6) Chlorine check. Manufacturer: '	7) VOA and Radon No Sa Headspace: Headspace D Exempt from headspace conterns: Me samp ID Bottle # None/c8 >6mm Test	Note Sample IDs which have dissimilar he RECEIVED BY: SIGNATURE CONTURE SIGNATURE CHECKED AGAINST GOD BY:	

2/28/2022 Page 6 of 11 pages

QA FO-FRM5504 (9,28,21) Ver 9

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1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

Fold the printed page along the horizontal line.
 Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scannad.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of \$100 or the autor there direct, incidental, consequential, or special is limited to the greater of \$100 or for autor exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other tiems listed in our ServiceGuide. Written claims must be file a within strict time limits, see current FedEx Service Guide. Service Guide. Weither file a time of extraordinary claims in the sum of a substance and the second actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other tiems listed in our ServiceGuide. Written claims must be file a within strict time limits, see current FedEx Service Guide. Written claims of extraordinary claims in the current fedEx Service Guidener.



Eurofins QC, LLC Nicki Smith 213 Witmer Road Horsham, PA 19044

Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Laboratory Comments

Report: 987571 Project: SUBCONTRACT Group: 1,4-Dioxane

This report format displays both the MRL and MDL. Values between the MRL and MDL are "J" flagged. Estimated data is reported between MRL and unadjusted MDL. ND values are reported down to the unadjusted MDL.


Eurofins QC, LLC

Nicki Smith 213 Witmer Road Horsham, PA 19044

Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Laboratory Data

Report: 987571 Project: SUBCONTRACT Group: 1,4-Dioxane

> Samples Received on: 02/15/2022 1813

Prepared	Analyzed	Prep Batch	Analyze Batch	Method	Analyte	Result	Units	MDL	MRL	Dilution
<u>POE, La</u>	ab Sink (630-2	7428-1) (2	022021508	<u>52)</u>			Sampled	d on 02/14/20)22 1359	Э
	Variabl	.e ID: 630)-27428-1							
	E	PA 522 - @		_0.07PPB						
02/17/22	02/18/22 13:08	1387505	1387686	(EPA 522)	1,4-Dioxane	0.048J	ug/L	0.018	0.070	1
02/17/22	02/18/22 13:08	1387505	1387686	(EPA 522)	Dioxane-d8	88	%			1
02/17/22	02/18/22 13:08	1387505	1387686	(EPA 522)	THF-d8	93	%			1

ND - Analyte was not detected at the calculated MDL. J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria. (c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.



Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Laboratory QC Summary

Report: 987571 Project: SUBCONTRACT Group: 1,4-Dioxane

Eurofins QC, LLC

@DIOXANE_0.07PPB

Prep Batch: 1387505 Analytical Batch: 1387686 202202150852

POE, Lab Sink (630-27428-1)

Analysis Date: 02/18/2022 Analyzed by: X8AA



Eurofins QC, LLC

Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)

Report: 987571 Project: SUBCONTRACT Group: 1,4-Dioxane

QC Туре	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
@DIOXANE_0.07P	PB by EPA 522								
Prep Batch:	1387505 Analytical Batch: 1387686				A	nalysis Da	ate: 02/18/2	2022	
LCS1	1,4-Dioxane		20	16.8	ug/L	84	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0810	ug/L	116	(50-150)		
MS2_202202150493	1,4-Dioxane	ND	10	9.49	ug/L	95	(70-130)		
MSD2_202202150493	1,4-Dioxane	ND	10	9.16	ug/L	91	(70-130)	20	3.6
LCS1	Dioxane-d8 (S)			89.6	%	90	(70-130)		
MBLK	Dioxane-d8 (S)			85.8	%	86	(70-130)		
MRL_CHK	Dioxane-d8 (S)			85.8	%	86	(70-130)		
MS2_202202150493	Dioxane-d8 (S)			89.7	%	90	(70-130)		
MSD2_202202150493	Dioxane-d8 (S)			88.3	%	88	(70-130)		
LCS1	THF-d8 (I)			95.3	%	95	(50-150)		
MBLK	THF-d8 (I)			94.6	%	95	(50-150)		
MRL_CHK	THF-d8 (I)			100	%	100	(50-150)		
MS2_202202150493	THF-d8 (I)			95.5	%	96	(50-150)		
MSD2_202202150493	THF-d8 (I)			108	%	108	(50-150)		

Spike recovery is already corrected for native results.

Spike recovery is already corrected for native results. Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method. RPD not calculated for LCS2 when different a concentration than LCS1 is used. RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level). (S) - Indicates surrogate compound. (I) - Indicates internal standard compound.

EQC Picksheet: P7282431 Expected: MONDAY 02/07/22 - 03/31/22 Bottle Type LAB USE ONLY Eurofins QC. LLC Cust: W09890 Schd: 55659 Project Name: VILLAGE OF NYACK WATER TREATMENT PLANT Ascorbic/HCL Vials HCL Vials # Start Date: 02/19/21 Stop Date: NA2S2O3 GILBERT FRANCOIS Comments/Schedule Details: NaOH/Zn acetate pH VILLAGE OF NYACK WATER TREATMENT PLANT CALL GILBERT TO SCHEDULE PRIOR TO HNO3 pН SAMPLING: PLANT 845-358-3734, OR CELL 230 ROUTE 59 H2SO4 pН 845-597-5424 the state NaOH pН NYACK, NY 10960 Unpreserved (845)358-0641 HCL (845)358-3734 GILERT FRANCOIS-PLANT NH4CL (845)597-5424 GILERT FRANCOIS-CELL MEOH Na2SO3/HCL PWSID: Route: 4 SARA CAMACHO e C C o o I I DI Water Field Tests By: /Time: e H P ŭ Collection Collection Time Total Free Cl2 BR2 YES/NO Total CL2 d Date (Military) # Bottles pH/TempC mg/L ma/L 7282431-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, DIOXANE, PFC 2 1 FIELD WORK CODE: 7282431-2 FIELD BLANK PFC FIELD WORK CODE: Loc: 630 27428 630-27428 Chain of Custody Couler ID: Sample Collected By Circle One Initials Required TAT: Standard ___/Rush___# Days _ SANA AMACH O Client EQC Comments (reporting, methods, etc) Fime Relinquished B Date Received By Iced Y/N Site Initials 523 EA II 4 TRE 1612 14 some' 2 M: 07:00-17:00 T: 07:00-17:00 W: 07:00-17:00 Th: 07:00-17:00 F: 07:00-17:00 St: - Sn: -Printed: 01/23/22 GPS X: Y: M: - T: - W: - Th: - F: - St: - Sn: Hazardous Y/N PM.

8

Eurofins Environment Testing Philadelphia-

213 Witmer Road

Chain of Custody Record



Seurofins Environment Testing America

Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567

Client Information (Sub Contract Lab)	Sampler			Lab PM: Dough	ertv.	Erin					C	arrier	Tracki	ng No(s):		COC No: 630-7018.1	
Client Contact:	Phone: E-Mi			E-Mail:	l:					s	State of Origin:				Page:			
Shipping/Receiving	Erin			Erin Do	Dougherty@eurofinset.com					New York				Page 1 of 1				
Company: Eurofins Lancaster Laboratories Env. LLC				N	ELA	P - N	ew Yor	rk	note)								630-27428-1	
Address:	Due Date Requeste	ed:									_			_			Preservation Code	5:
2425 New Holland Pike, ,	2/28/2022					_		A	naly	sis	Requ	lest	ed			_	A - HCL	M - Hexane
City:	TAT Requested (da	iys):		3											1 1	14	B - NaOH	N - None
State. Zio:	_					ef 1											D - Nitric Acid	P - Na2O4S
PA, 17601						List										13	E - NaHSO4	Q - Na2SO3 R - Na2S2O3
Phone:	PO #:					37.1											G - Amchlor	S - H2SO4
/1/-656-2300(TeI)	WO #			2		A 5.											H - Ascorbic Acid	T - TSP Dodecahydrate U - Acetone
Eman.	VIO #.			P	Q.	VEP										2	J - DI Water	V - MCAA
Project Name:	Project #:			,	5	D d										ġ	K - EDTA L - EDA	VV - pH 4-5 Z - other (specify)
PFC, Dioxane	63003671				, s	E E							1			- the	Others	
Site: Village of Nyack Otly PEC	SSOW#:			ame		M										2	Other:	
Village of Nyack dity PTC				2	SWU	2										-		
			Sample Mat	rix E	N N	NI53										- m		
		Sample	Type See	ater, LL	Lo	a,										N		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT=Tiesus	te/oil,		237.										Tot.	Special Ins	tructions/Note:
bampie identification - onent ib (Eusio)		$\mathbf{\times}$	Preservation Co	ode:		1										S		
DOE 1 of Sink (530 37429 4)	2/14/02	13:59	hinking	1 Mate	Ť													
POE, Lab Sink (650-27426-1)	2/14/22	Eastern		vvald	+				+	<u> </u>		_		_				
Field Blank (630-27428-2)	2/14/22	13:44 Eastern	prinking	y Wate		X											1	
		Lastern			\top	1												
					+-	+	+				$\left \right $	\rightarrow		_	+		-	
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					Т				Τ									
					+	+	+		+			+		+-	+			
				-+	+-	+	+		-			-					1	
					-		<u> </u>										tin ferrierded under eheit	of an atom is life the
Note: Since laboratory accreditations are subject to change, Eurofins Enviror laboratory does not currently maintain accreditation in the State of Origin liste	ment Testing Philadelphi ad above for analysis/tests	a, LLC places 1 I/matrix being a	the ownership of metho analyzed, the samples r	d, analyte nust be sh	hipper	d back	to the E	pliance i urofins E	upon o Environ	ment 1	contract Testing	Philac	delphia	LLC la	iampie s boratory	or other	instructions will be provi	ded. Any changes to
accreditation status should be brought to Eurofins Environment Testing Phila	delphia, LLC attention imr	mediately. If a	Il requested accreditation	ins are cu	rrent	to date	, return i	the signe	ed Cha	in of C	ustody	attest	ing to s	aid con	plicance	to Euro	ofins Environment Testing	Philadelphia, LLC.
Possible Hazard Identification	- A MARINA AND AND AND AND AND AND AND AND AND A				Sa	ample	e Dispo	osal (/	A fee	may	be as	sess	sed if	samp	les ar	e retal	ned longer than 1 i	nonth)
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Nyack Water Department

2022 QUARTER 2 SAMPLING REPORT

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Environment Testing Philadelphia, LLC 213 Witmer Road Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-36643-1

Client Project/Site: Village of Nyack - 1,4-Dioxane

For:

..... Links

Review your project results through

EOL

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The

www.eurofinsus.com/Env

Visit us at:

Expert

Village of Nyack Water Treatment Plant 9 North Broadway West Nyack, New York 10960

Attn: Gilbert Francois

Authorized for release by: 6/29/2022 8:17:34 PM

Erin Dougherty, Project Administrator (215)355-3900 Erin.Dougherty@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

- Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

• Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

• Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

• EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

• Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

• The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Erin Dougherty Project Administrator 6/29/2022 8:17:34 PM

Job ID: 630-36643-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

Job Narrative 630-36643-1

Receipt

The sample was received on 6/16/2022 3:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC/MS Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - 1,4-Dioxane

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-36643-1	LAB SINK	Drinking Water	06/16/22 11:30	06/16/22 15:00

Matrix: Drinking Water

Lab Sample ID: 630-36643-1

Client Sample ID: LAB SINK Date Collected: 06/16/22 11:30

|--|

Date Received: 06/16/22 15:00 Method: 522 - 1,4 Dioxane (GC/MS SIM)										- 4
										5
		Qualifier	RL	0.032		D	Analyzed			
1,4-010,4116	ND		0.070	0.032	ug/L		00/20/22 20:03	'	ID	
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst	
1,4-Dioxane-d8 (Surr)	87		70 - 130				06/28/22 20:05	1	TD	7
										8

Action Limit Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - 1,4-Dioxane

Job ID: 630-36643-1

Lab Sample ID: 630-36643-1

Client Sample ID: LAB SINK

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

				NYS-MCL				Ę
Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type	
1,4-Dioxane	ND		ug/L	1	0.070	522	Total/NA	

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - 1,4-Dioxane Job ID: 630-36643-1

Laboratory: Eurofins Eaton South Bend

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-22
Alabama	State	40700	06-30-22
Alaska	State	IN00035	06-30-22
Arizona	State	AZ0432	07-26-22
Arkansas (DW)	State	EPA IN00035	06-30-22
California	State	2920	06-30-22
Colorado	State	IN00035	02-28-23
Connecticut	State	PH-0132	03-31-22 *
Delaware (DW)	State	IN00035	06-30-22
Florida	NELAP	E87775	06-30-22
Georgia (DW)	State	929	06-30-22
Hawaii	State	IN035	06-30-22
ldaho (DW)	State	IN00035	12-31-22
IL Dept. of Public Health (Micro)	State	17767	06-30-22
Illinois	NELAP	200001	09-30-22
Indiana	State	C-71-01	12-31-22
Indiana (Micro)	State	M-76-07	12-31-22
lowa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-22
Kentucky (DW)	State	KY90056	12-31-22
Louisiana (DW)	State	LA180008	12-31-22
Maine	State	IN00035	05-01-23
Maryland	State	209	03-31-23
Massachusetts	State	 M-IN035	06-30-22
ML - RadChem Recognition	State	9926	06-30-22
Michigan	State	9926	03-22-22 *
Minnesota	NELAP	1989807	12-31-22
Mississinni	State	IN00035	06-30-22
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-01-23
Nebraska	State	NE-OS-05-04	06-30-22
Nevada	State	IN000352021-1	07-31-22
New Hampshire	NELAP	2124	11-05-22
	NELAI NELAD	IN598	06-30-22
New Mexico	State	1N00035	06 30 22
New York	NELAP	11398	04-01-23
North Carolina (D)(/)	State	18700	07-31-22
North Dakota	State	18700 B 025	07-31-22
Obio	State	87775	06 30 22
Oklaboma		D0508	09 21 22
Originolia		D9306	00-31-22
Poppsylvania			03-10-22
			04-00-20
	State		10 20 22
	State		12-30-22
	State	95005001	00-30-22
South Dakota (DW)	State		12-31-22
rennessee	State	I NU2973	06-30-22
		I 104/04187-20-4	12-31-22
lexas	TCEQ Water Supply	TX207	06-30-22
USEPA Reg X SDWA	US Federal Programs	IN00035	08-20-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Environment Testing Philadelphia, LLC

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - 1,4-Dioxane Job ID: 630-36643-1

Laboratory: Eurofins Eaton South Bend (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN000352021-14	07-31-22
Vermont	State	VT-8775	11-15-22
Virginia	NELAP	460275	03-14-23
Washington	State	C837	01-01-23
West Virginia (DW)	State	9927 C	12-31-22
Wisconsin	State	999766900	08-31-22
Wisconsin (Micro)	State	10121	12-31-22
Wyoming	State	8TMS-L	08-23-22

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - 1,4-Dioxane

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Method	Method Description	Protocol	Laboratory	
522	1,4 Dioxane (GC/MS SIM)	EPA	EA SB	
522	Solid-Phase Extraction (SPE)	EPA	EASB	

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

🔅 eurofins	Environment Testing			CH	AIN OF Page	CUS	STO	DC	Y					Lab L	IMS No:	MATRIX CODES
	America	Bill to/Repor	t to (if differ	ent)										LABI	USE ONLY:	
213 Witmer Road	Phone: 215-355-3900		· · · · · · · · · · · · · · · · · · ·		A									#	_ Ascorbic/HCL Vials # HCl Vials	GW: GROUND WATER
Horsham, PA 19044		Sampling Sit	te Address	if diffe	rent) Include	e State								#	Na2S2O3	WW: WASTEWATER
Client/Acct. No. Juliac	TO OF NYACK													#	Na OH/Zn acetate pH	SO: SOIL
Address WATER	TREATMENT													#	_ HNO ₃ pH	SL: SLUDGE
PLAN	ST.												-	#	_ H ₂ SO ₄ pH	OIL: OIL
City/State/Zip	(WO 9& 90)	P.O. No.				PWSID	#:						2	#	_ NaOH pH	SOL: NON SOIL SOLID
Phone/Fax		Quote #											A.	#	_ Unpreserved	MI: MISCELLANEOUS
Client Contact:		e-mail:											N	#	_ HCI #NH4CI #MeOH	X: OTHER
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eurofins

Environment Testing America

Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567 Eurofins Environment Testing Philadelphia, 213 Witmer Road

Sampler	
	Chain of
	Custody
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Company	Date/Time	Received by	Company		Date/Time	
	- - - -		CETT	1500	6/16/22	Relinguished hur
Company	Date/Time	A Received by	Company		Date/Time: /	Relinquished by:
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	ls:	Special Instructions/QC Requirement		able Rank: 1	Primary Delivera	Deliverable Requested: I, II, III, IV, Other (specify)
than 1 month) Months	sessed if samples are retained longer isposal By Lab Archive For	Sample Disposal (A fee may be as Return To Client				Possible Hazard Identification Unconfirmed
under chain-of-custody. If the vill be provided. Any changes to ent Testing Philadelphia, LLC.	t laboratories. This sample shipment is forwarded t Philadelphia, LLC laboratory or other instructions w attesting to said complicance to Eurofins Environm	te & accreditation compliance upon out subcontract shipped back to the Eurofins Environment Testing current to date, return the signed Chain of Custody	wnership of method, analy ized, the samples must be uested accreditations are of	, LLC places the c /matrix being analy nediately. If all rec	adelphia, LLC attention imm	Trove: Junce lawy accurrently maintain accreditation in the State of Ongin is laboratory does not currently maintain accreditation in the State of Ongin is accreditation status should be brought to Eurofins Environment Testing Phi
						Note: Since laboration accreditations are exhibit to obtain Eurofee Enviro
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	N	×	prinking Wate	11:30 Eastern	6/16/22	LAB SINK (630-36643-1) A-1
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	r of co Other:	Semp MSD (Y			SSOW#	Sile: Village of Nyack Qtly PFC
Y - Trizma Z - other (specify)	ntaine ED C A	le (Yes res or 1,4-Dio)	10		Project #: 63003671	Project Name: 1,4-Dioxane
97 V - MCAA 97 W - pH 4-5	s J - DI Wate	ane			WO #	Email:
or T - TSP Dodecahydrate	G = Amchic H - Ascorb				PO #	574-233-4777(Tel) 574-233-8207(Fax)
A R - Na2SO3	E - NaHSO					State, Zp: IN, 46617
N - None O - AsNaO2	B - NaOH C - Zn Ace			ays):	TAT Requested (d	South Bend
tion Codes: M - Hexane	uested Preservat	Analysis Requ		ed:	Due Date Request 7/13/2022	110 S Hill Street,
13-1	Job # 630-3664	NELAP - New York				Eurofins Eaton Analytical
f 1	State of Origin: Page: New York Page 1 o	Dougherty@et.eurofinsus.com	E-Ma Erin.		Phone	Company Company Company
3.1	Carrier Tracking No(s): 630-7963	sherty, Erin	Lab P Dou		Sampler	Client Information (Sub Contract Lab)

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Ver: 06/08/2021

Custody Seals Intact: ∆ Yes ∆ No

Custody Seal No .:

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Environment Testing Philadelphia, LLC 213 Witmer Road Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-34085-1

Client Project/Site: Village of Nyack - PFC Sampling Event: Quarterly PFC, Dioxane

For:

.....Links

Review your project results through

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The

www.eurofinsus.com/Env

Visit us at:

Expert

Village of Nyack Water Treatment Plant 9 North Broadway West Nyack, New York 10960

Attn: Gilbert Francois

Authorized for release by: 5/31/2022 1:17:42 PM

Erin Dougherty, Project Administrator (215)355-3900 Erin.Dougherty@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

• Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

• Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

• EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

• Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

• The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Erin Dougherty Project Administrator 5/31/2022 1:17:42 PM

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

Job Narrative 630-34085-1

Receipt

The samples were received on 5/20/2022 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-34085-1	POE, Lab Sink	Drinking Water	05/20/22 12:56	05/20/22 15:00
630-34085-2	Field Blank	Drinking Water	05/20/22 12:54	05/20/22 15:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Client Sample ID: POE, Lab Sink Date Collected: 05/20/22 12:56 Date Received: 05/20/22 15:00

	RL	MDL	Unit	D	Analyzed	Dil I
_	1.8	0.45	ng/l		05/27/22 22:47	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	5.0		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluoroheptanoic acid	3.8		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluorooctanoic acid	10		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluorononanoic acid	2.0		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluorodecanoic acid	0.54	J	1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluorobutanesulfonic acid	3.1		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluorohexanesulfonic acid	3.4		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluorooctanesulfonic acid	6.8		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
NEtFOSAA	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
NMeFOSAA	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
HFPODA	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
9CI-PF3ONS	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
11CI-PF3OUdS	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
DONA	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	102		70 - 130				05/27/22 22:47	1	DCS9
13C2 PFHxA	89		70 - 130				05/27/22 22:47	1	DCS9
13C3 HFPO-DA	83		70 - 130				05/27/22 22:47	1	DCS9
d5-NEtFOSAA	95		70 - 130				05/27/22 22:47	1	DCS9

Client Sample ID: Field Blank

Date Collected: 05/20/22 12:54 Date Received: 05/20/22 15:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0	Nov 2018	3							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluoroheptanoic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluorooctanoic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluorononanoic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluorodecanoic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluorotridecanoic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluorotetradecanoic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluorobutanesulfonic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluorohexanesulfonic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluorooctanesulfonic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
NEtFOSAA	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
NMeFOSAA	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluoroundecanoic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
Perfluorododecanoic acid	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
HFPODA	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
9CI-PF3ONS	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
11CI-PF3OUdS	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
DONA	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9

Lab Sample ID: 630-34085-2

Matrix: Drinking Water

Job ID: 630-34085-1

Matrix: Drinking Water

Lab Sample ID: 630-34085-1

Limits

70 - 130

70 - 130

70 - 130

70 - 130

%Recovery Qualifier

87

98

95

100

Client Sample ID: Field Blank Date Collected: 05/20/22 12:54 Date Received: 05/20/22 15:00

Surrogate

13C2 PFDA

13C2 PFHxA

13C3 HFPO-DA

d5-NEtFOSAA

Lab	Sam	ple	ID:	630-34	408
		Mat	riv	Drinkin	a W/

Analyzed

05/27/22 22:58

05/27/22 22:58

05/27/22 22:58

05/27/22 22:58

5-2 Matrix: Drinking Water

Dil Fac Analyst

1 DCS9

1 DCS9

1 DCS9

1 DCS9

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC Job ID: 630-34085-1

5

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority New York	Program NELAP	Identification Number 10670	Expiration Date
Qualifiers			

Quuinto

LCMS	
Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

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6

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE
Protocol Refer	ences:		

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client	EQC SZ Time Date 1520 J.Z2/220	Recomed By S	ER TOB	Time 1970	Date	Temp 3.2 C	Iced Y/N	Site	Initials 1252	Comments (reporting, methods, e S.R. Fiker, 1/22	etc) ne Gr.
Sample Collected By Circ	le One Initials		[Required TAT	Standard/R	ush# Days				Coole	er ID:	
1x - 2 Storn p. w	1143								63	0-34085 CI	nain of Custody	
1X-250 ML. AmB	TTLIS BR GLS w/ CH	corride						630 085				
						7/20/	1254					
7289063-2 FIELD BLANK								1				
7289063-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, DIOXANE, PFC						5/20/22	1256	3				
Route: 4 SARA CAMACHO		PWSID:	P s u d	e C C O P I I C i i	# #	_ Na2SO3/HC _ DI Water Collection Date	L Collection Tim (Military)	e Total # Bottles	Field	pH/TempC	/Tim BR2 Tota YES/NO mg/	e:
NYACK, NY 10960 (845)358-0641 (845)358-3734 GILERT FRANCOIS-PLA (845)597-5424 GILERT FRANCOIS-CEL	NT PLIEASE	is mest	- NYA Recus	ex,	# # # #	NaOH pH Unpreserved HCL NH4CL MEOH	ł					
GILBERT FRANCOIS VILLAGE OF NYACK WATER TREATMEN 230 ROUTE 59	NT PLANT CALL GILB SAMPLING 845.597.54	Schedule Details: ERT TO SCHEDULE PLANT 845-358-3	E PRIOR TO 734, OR CEL	.L	# # #	NA2S2O3 NaOH/Zn ac HNO3 pH H2SO4 pH	etate pH H					

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5/31/2022

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Eurofins Environment Testing Philadelphia,

Chain of Custody Record



eurofins Environment Testing America

213 Witmer Road Horsham, PA 19044-0962

	Sampler	-		Lal	PM:							Carrier T	racking	No(s)			COC No:	
ent Contract Lab	Phone:			E-I	Aail	ty, El			_			State of	Origin:			-	Page:	
ipping/Receiving				Er	in.Dou	gher	y@et	eurofins	SUS.CO	m		New Y	ork				Page 1 of 1	
mpany: profins Lancaster Laboratories Environm					NE		New	uired (Se York	e note)	i.							630-34085-1	
Idress:	Due Date Requeste	d:			T				Ana	lveie	Rea	uosto	d				Preservation Cod	es:
ly:	TAT Requested (da	ys):		_	+	T		TT						П			A - HCL B - NaOH	N - None
																	C - Zn Acetate	O - AsNaO2 P - Na2O4S
te, 2ip. 17601														11			E - NaHSO4	Q - Na2SO3 R - Na2S2O3
one: 7.656.2200(Tol)	PO #:						1.76										G - Amchlor	S - H2SO4 T - TSP Dodecahydra
ail:	WO #:				- Ŷ												H - Ascorbic Acid	U - Acetone
					0	No.										É	J - DI Water K - EDTA	W - pH 4-5
ect Name: C. Dioxane	63003671				ž	10 8	de									tain	L - EDA	Y - Trizma Z - other (specify)
	SSOW#:	SSOW#:														COL	Other:	
lage of Nyack Qtly PFC			1		d Sa	ISW/										ar of	L	
			Sample	Matrix	ere	WS	NI53									A		
		Sample	Type (C=comp.	(W=water, S=solid,	E P	Lou										Ň		
mple Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=	(비)	Per	237.									Tot	Special In	structions/Note:
	\sim	\geq	Preserva	tion Code	X	X.										X		
JE, Lab Sink (630-34085-1)	5/20/22	12:56 Eastern		rinking W	ate		×									2		
eld Blank (630-34085-2)	5/20/22	12:54		rinking W	ate		x									1		
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oratory does not currently maintain accreditation in the State of Origin creditation status should be brought to Eurofins Environment Testing F	listed above for analysis/tests Philadelphia, LLC attention imr	matrix being a nediately. If al	analyzed, the i	amples must	be ship	ped ba	ick to th ate, retu	e Eurofina Im the sid	s Enviro	nment Thain of C	Testing	Philade	lphia, Li o to said	LC labor	atory or cance to	other in Eurofi	instructions will be proving Environment Testin	vided. Any changes to
ssible Hazard Identification						Sam	ole Di	snosal	(A fe	e mav	he a	22922	d if s	amnle	s are i	etain	ed longer than 1	month
nconfirmed							Refu	m To C	lient	[isposa	BVI	ab		Arch	hive For	Months
eliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank	1			Spec	ial Ins	truction	s/QC	Requir	emen	its			_			
noty Kit Relinquished by		Date	_		Tin	ne			_			Me	ethod of	Shipme	ent:	-		
linguished by	Date/Time:			Compapy		R	eceived	by:				ì		Date/1	îme:			Company
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Custody Seals Intent: Custody Seal No.						10	and a second second			- 104								

A Yes A No.:	Relinquished by:	Relinquished by:	Nonindensity of Contraction	Relinnuished hv 1	Empty Kit Relinquished by:	Deliverable Requested: I, II, III, IV, Other (specify)	Unconfirmed	Possible Hazard Identification	Note: Since laboratory accreditations are subject to change. Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin accreditation status should be brought to Eurofins Environment Testing P					POE, Lab Sink (630-34085-1)		Sample Identification - Cilent ID (Lab ID)		site: Village of Nyack Otly PFC	PFC, Dioxane	Email:	574-233-4777(Tel) 574-233-8207(Fax)	IN, 46617	South Bend	110 S Hill Street, ,	Company: Eurofins Eaton Analytical	Chern Contact Shipping/Receiving	Client Information (Sub Contract Lab)	213 Witmer Road Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567
	Date/Time:	Date/Time:	5/23/2	DetoTitor		Primary Delive			vironment Testing Philadelp listed above for analysis/te hiladelphia, LLC attention i					5/20/22	X	sample uate		SSOW#:	Project #: 63003671	WO #	2	8	TAT Requested	Due Date Reque 6/2/2022		Phone	2	Sampler
			a /to		Date:	rable Rank: 1			hia, LLC places t sts/matrix being a mmediately. If all					12:56 Eastern	X	lime	Sample						(days):	sted:				Chain c
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Cooler Temp	Received by:	Received by:	Neceived by:	Doonlind hu	Ð.	special Instruc	Return	Sample Dispo	accreditation co oped back to the ent to date, return		_	_		×		6:	erform MS/I	/ISD (_Prep	Yes o 1,4-Dic	r No) oxane					AP - New Yo	gherty@et.eu	ty, Erin	ord
erature(s) °C and	NO		Redo			tions/QC Req	o Client	sal (A fee m	mpliance upon ou Eurofins Environu the signed Chai															Analys	ed (See note): rk	rofinsus.com		
Other Remarks:			0			uirements:	Dispos	av he acces	ut subcontract lat ment Testing Phil n of Custody atte													-		sis Reques		State New	Califo	Cart
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XC	12						ve For	d longer than	t is forwarded under instructions will be vfins Environment							Special		Other:	L-EDA	J - DI Water	G - Amchlor H - Ascorbic Acid	E - NaHSO4 F - MeOH	B - NaOH C - Zn Acetate	A - HCL	Job #: 630-34085-1	Page: Page 1 of 1	630-7781.1	
	Company S	Company	Company	5			Months	1 month)	er chain-of-custody. If the e provided. Any changes to Testing Philadelphia, LLC.							Instructions/Note:			Y - Trizma Z - other (specify)	V - MCAA W - pH 4-5	3 - H2SU4 T - TSP Dodecahydra	Q - Na2SO3 R - Na2S2O3	N - NONE O - ASNAO2 P - Na204S	M - Hexane				America

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Nyack Water Department

2022 QUARTER 3 SAMPLING REPORT

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Environment Testing Philadelphia, LLC 213 Witmer Road Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-44074-1

Client Project/Site: Village of Nyack - PFC, Dioxane Sampling Event: Quarterly PFC, Dioxane

For:

..... Links

Review your project results through

EOL

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Ask

The

www.eurofinsus.com/Env

Visit us at:

Expert

Village of Nyack Water Treatment Plant 9 North Broadway West Nyack, New York 10960

Attn: Gilbert Francois

Authorized for release by: 9/27/2022 1:47:35 AM

Erin Dougherty, Project Administrator (215)355-3900 Erin.Dougherty@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

- Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

• Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

• Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

• Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

• Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

• Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

• The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Tim Dougher

Erin Dougherty Project Administrator 9/27/2022 1:47:35 AM

Job ID: 630-44074-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

Job Narrative 630-44074-1

Receipt

The samples were received on 8/29/2022 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC/MS Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS

Method 537.1_DW: The recovery for target analytes: Perfluorotridecanoic acid, Perfluorotetradecanoic acid and 11CI-PF3OUdS in the laboratory control spike sample associated with the following sample: Field Blank (630-44074-2) is outside the QC acceptance limits. Sufficient volume was not available to re-extract the sample.

Method 537.1_DW: The recovery for the following target analyte(s): Perfluorotridecanoic acid, Perfluorotetradecanoic acid and 11CI-PF3OUdS in the laboratory control samples associated with the following samples: POE, Lab Sink (630-44074-1) is outside of QC acceptance limits. The sample(s) was re-extracted outside of the required holding time and the recovery for the target compound(s) is now within QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC, Dioxane

2	
3	
5	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-44074-1	POE, Lab Sink	Drinking Water	08/29/22 12:45	08/29/22 16:05
630-44074-2	Field Blank	Drinking Water	08/29/22 12:46	08/29/22 16:05

Client Sample ID: POE, Lab Sink Date Collected: 08/29/22 12:45 Date Received: 08/29/22 16:05

Method: 522 - 1,4 Dioxane (GC/MS SIM)

9CI-PF3ONS

Lab Sample ID: 630-44074-1

Matrix: Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,4-Dioxane	ND		0.070	0.032	ug/L		09/15/22 02:47	1	BC
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
1,4-Dioxane-d8 (Surr)	86		70 - 130				09/15/22 02:47	1	BC
Method: EPA 537 1 - EPA 537 1	Ver 1.0 Nov 201	8							
Analyte	Result	Qualifier	RI	МП	Unit	р	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	3.8		1.7	0.42	ng/L		09/14/22 08:54	1	V3JD
Perfluorobentanoic acid	31		1.7	0.42	ng/L		09/14/22 08:54	1	V3JD
Perfluorooctanoic acid	7.4		17	0.42	ng/l		09/14/22 08:54	. 1	V3JD
Perfluorononanoic acid	1.7		17	0.42	ng/l		09/14/22 08:54		V3.ID
Perfluorodecanoic acid		.	1.7	0.42	ng/L		09/14/22 08:54	1	V3.ID
Perfluorotridecanoic acid	ND	*_	1.7	0.42	ng/L		09/14/22 08:54	1	V3.ID
Perfluorotetradecanoic acid	ND	*_	1.7	0.42	ng/l		09/14/22 08:54	 1	V3ID
Perfluerebutanegulfenie seid	2.2		1.7	0.42	ng/L		09/14/22 08:54	1	V3JD
	2.3		1.7	0.42	ng/L		00/11/22 00.04	1	
	1.5	J	1./	0.42	ng/L		09/14/22 00.04		
	4.2		1.7	0.42	ng/L		09/14/22 00.54	1	ValD
	ND		1.7	0.42	ng/L		09/14/22 06:54	1	VSID
NMEFOSAA	ND		1.7	0.42	ng/L		09/14/22 08:54	·····	V3JD
Perfluoroundecanoic acid	ND		1.7	0.42	ng/L		09/14/22 08:54	1	V3JD
Perfluorododecanoic acid	ND		1.7	0.42	ng/L		09/14/22 08:54	1	V3JD
HFPODA	ND		1.7	0.42	ng/L		09/14/22 08:54	1	V3JD
9CI-PF3ONS	ND		1.7	0.42	ng/L		09/14/22 08:54	1	V3JD
11CI-PF3OUdS	ND	*-	1.7	0.42	ng/L		09/14/22 08:54	1	V3JD
DONA	ND		1.7	0.42	ng/L		09/14/22 08:54	1	V3JD
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	108		70 - 130				09/14/22 08:54	1	V3JD
13C2 PFHxA	93		70 - 130				09/14/22 08:54	1	V3JD
13C3 HFPO-DA	89		70 - 130				09/14/22 08:54	1	V3JD
d5-NEtFOSAA	92		70 - 130				09/14/22 08:54	1	V3JD
Method: EPA 537.1 - EPA 537.1.	. Ver 1.0 Nov 201	8 - RE							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	4.1	н	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
Perfluoroheptanoic acid	3.4	н	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
Perfluorooctanoic acid	7.8	н	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
Perfluorononanoic acid	1.4	JH	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
Perfluorodecanoic acid	0.43	JH	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
Perfluorotridecanoic acid	ND	н	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
Perfluorotetradecanoic acid	ND	Н	1.6	0.41	ng/L		09/25/22 20:23		DCS9
Perfluorobutanesulfonic acid	2.3	н	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
Perfluorohexanesulfonic acid	1.4	JH	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
Perfluorooctanesulfonic acid	4 1	H	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
NEtFOSAA		н	1.6	0.41	na/L		09/25/22 20.23	1	DCS9
NMeFOSAA		н	1.6	0.41	ng/l		09/25/22 20:23	1	DCS9
Perfluoroundecanoic acid		н. Н	1.6	0.41	ng/l		09/25/22 20:23		DCS9
Perfluorododecanoic acid		н	1.0	0.41	ng/L		09/25/22 20:23	1	DCS9
	0.42		1.0	0.41	ng/L		00/25/22 20.23	1	
NEFULA	0.43	J П	1.0	0.41	ng/L		03123122 20.23	1	0003

Eurofins Environment Testing Philadelphia, LLC

09/25/22 20:23

1.6

0.41 ng/L

ND H

1 DCS9

Client Sample ID: POE, Lab Sink Date Collected: 08/29/22 12:45 Date Received: 08/29/22 16:05

Method: EPA 537.1 - EPA	A 537.1, Ver 1.0 Nov 201	18 - RE (Cor	ntinued)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analys
11CI-PF3OUdS	ND	Н	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
DONA	ND	н	1.6	0.41	ng/L		09/25/22 20:23	1	DCS9
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analys
13C2 PFDA	112		70 - 130				09/25/22 20:23	1	DCS9
13C2 PFHxA	107		70 - 130				09/25/22 20:23	1	DCS9
13C3 HFPO-DA	97		70 - 130				09/25/22 20:23	1	DCS9

70 - 130

102

Client Sample ID: Field Blank

Date Collected: 08/29/22 12:46

Date Received: 08/29/22 16:05

d5-NEtFOSAA

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluoroheptanoic acid	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluorooctanoic acid	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluorononanoic acid	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluorodecanoic acid	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluorotridecanoic acid	ND	*_	1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluorotetradecanoic acid	ND	*_	1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluorobutanesulfonic acid	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluorohexanesulfonic acid	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluorooctanesulfonic acid	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
NEtFOSAA	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
NMeFOSAA	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
HFPODA	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
9CI-PF3ONS	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
11CI-PF3OUdS	ND	*_	1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
DONA	ND		1.8	0.45	ng/L		09/14/22 09:06	1	V3JD
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	102		70 - 130				09/14/22 09:06	1	V3JD
13C2 PFHxA	95		70 - 130				09/14/22 09:06	1	V3JD
13C3 HFPO-DA	90		70 - 130				09/14/22 09:06	1	V3JD
d5-NEtEOSAA	104		70 130				09/14/22 09:06	1	V3.ID

Lab Sample ID: 630-44074-2 Matrix: Drinking Water

1 DCS9

09/25/22 20:23

Eurofins Environment Testing Philadelphia, LLC

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC, Dioxane Job ID: 630-44074-1

Laboratory: Eurofins Eaton South Bend

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-24
Alabama	State	40700	06-30-23
Alaska	State	IN00035	06-30-23
Arizona	State	AZ0432	07-26-23
Arkansas (DW)	State	EPA IN00035	06-30-23
California	State	2920	06-30-22 *
Colorado	State	IN00035	02-28-23
Connecticut	State	PH-0132	03-31-22 *
Delaware (DW)	State	IN00035	06-30-23
Florida	NELAP	E87775	06-30-23
Georgia (DW)	State	929	06-30-23
Hawaii	State	IN035	06-30-23
ldaho (DW)	State	IN00035	12-31-22
IL Dept. of Public Health (Micro)	State	17767	12-31-22
Illinois	NELAP	200001	09-30-23
Indiana	State	C-71-01	12-31-22
Indiana (Micro)	State	M-76-07	12-31-22
lowa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-22
Kentucky (DW)	State	KY90056	12-31-22
Louisiana (DW)	State	LA180008	12-31-22
Maine	State	IN00035	05-01-23
Maryland	State	209	03-31-23
Massachusetts	State	M-IN035	06-30-23
MI - RadChem Recognition	State	9926	06-30-23
Michigan	State	9926	12-31-22
Minnesota	NELAP	1989807	12-31-22
Mississippi	State	IN00035	06-30-22 *
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-01-23
Nebraska	State	NE-OS-05-04	06-30-23
Nevada	State	IN000352021-2	07-31-23
New Hampshire	NELAP	2124	11-05-22
New Jersev	NELAP	 IN598	06-30-23
New Mexico	State	IN00035	06-30-23
New York	NELAP	11398	04-01-23
North Carolina (DW)	State	18700	07-31-23
North Dakota	State	R-035	06-30-23
Ohio	State	87775	06-30-23
Oklahoma	NELAP	D9508	08-31-23
Oregon	NELAP	4156	09-16-22
Pennsvlvania	NELAP	68-00466	04-30-23
Puerto Rico	State	IN00035	04-01-23
Rhode Island	State	LAO00343	12-30-22
South Carolina	State	95005001	06-30-22 *
South Dakota (DW)	State	IN00035	12-31-22
Tennessee	State	TN02973	06-30-23
Texas	NELAP	T104704187-20-4	12-31-22
Texas	TCEO Water Supply	TX207	06-30-23
	LIS Federal Programs	IN00035	12-31-25
	oo i ederai rittyranis		12-01-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Environment Testing Philadelphia, LLC
Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC, Dioxane Job ID: 630-44074-1

Laboratory: Eurofins Eaton South Bend (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Utah	NELAP	IN00035	07-31-23
Vermont	State	VT-8775	11-15-22
Virginia	NELAP	460275	03-14-23
Washington	State	C837	01-01-23
West Virginia (DW)	State	9927 C	12-31-22
Wisconsin	State	999766900	08-31-23
Wisconsin (Micro)	State	10121	12-31-22

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

Qualifiers

LCMS	
Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
Н	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC, Dioxane Job ID: 630-44074-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
POS	Positive / Present	
PQL	Practical Quantitation Limit	5
PRES	Presumptive	.
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC, Dioxane

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6

Method	Method Description	Protocol	Laboratory
522	1,4 Dioxane (GC/MS SIM)	EPA	EASB
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
522	Solid-Phase Extraction (SPE)	EPA	EA SB
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777 ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

EUROFINE Picksheet: P7296632 Eurofins QC, LLC Cust: W09890 Schd: 55659 GILBERT FRANCOIS VILLAGE OF NYACK WATER TREATMENT PLANT 230 ROUTE 59	Expected: MONDAY 08/01/22 - 08/3 Project Name: VILLAGE OF NYACK WATER TRE Start Date: 02/19/21 Stop Date: Comments/Schedule Details: CALL GILBERT TO SCHEDULE PRIOR 1 SAMPLING: PLANT 845-358-3734, OR C 845-597-5424	11/22 EATMENT PLANT TO CELL	LAB USE ONLY # Ascorbic/HCL # NA2S2O3 # NaOH/Zn ace # HNO3 pH # H2SO4 pH # H2SO4 pH	Bottle Type Vials # tate pH	HCL Vials		
WEST NYACK, NY 10960 (845)358-0641 (845)358-3734 GILERT FRANCOIS-PLANT (845)597-5424 GILERT FRANCOIS-CELL			# NaUm µm # Unpreserved # HCL # NH4CL # MEOH				
Route: 4 SARA CAMACHO	PWSID:	P s e e C C	# Na2SO3/HCL # DI Water		Field Tes	IS BUILD AR	/Time:
and the second		u H o o d P I I o C i i	Collection Date	Collection Time Total (Military) # Bottles	Free Cl2 mg/L ph	BR2 I/TempC YES/NO	Total CL2 mg/L
7296632-1 PFC) POE. LAB SINK 29-PFAS SAMP NON MUN, DIOXAME, PFC			872	1745 2			
FIELD WORK CODE:							
7296632-2 FIELD BLANK PFC			alabo	10/11			
			Up m	1240			
FIELD WORK CODE:				I			
							Loc: 630 44074
				020 44074 Ch	ain of Custody		
Sample Collected By Circle One	Initials					- L	
EQ.		Required TAT: Stan	dard/Rush# Days		[
Relinquished By	e Date 1 Received By	Time Da		Iced Y/N Site	Initials	Comments (reporting, me	inoas, eic)
M: 07:00-17:00 T: 07:00-17:00 W: 07:00-17:00 Th: 07:00-17:	:00 F: 07:00-17:00 St: - Sn: - Printed: 07/	/17/22 GPS X:	Y:				

Eurofins Environment Testing Philadelphia,

Chain of Custody Record



Seurofins Environment Testing

Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567

213 Witmer Road

Client Information (Sub Contract Lab)	Sampler:			Lab PM Dougt	nerty.	Erin					Ca	rrier Tra	cking N	Vo(s):			COC No: 630-8449.1	
Stient Contact:	Phone:			E-Mail:			2.4				St	ite of Or	igin:			-	Page:	
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Eurofins Lancaster Laboratories Environm				i li	VELA	P - N	lew Yo	ork	note)								630-44074-1	
ddress	Due Date Requested:									_						-	Preservation Cod	es:
2425 New Holland Pike,	9/11/2022							A	Analys	sis F	Requ	ested					A HCI	M - Hexane
Sity:	TAT Requested (days):	:					ГТ										B - NaOH	N - None
ancaster						18	18										C - Zn Acetate	0 - AsNa02 P - Na2O4S
late, Zip: A, 17601						List o	List o										D - Nitric Acid E - NaHSO4 E - MeOH	Q - Na2SO3 R - Na2S2O3
1008: 17-656-2300/Tel)	PO #					37.1	37.1										G - Amchlor	S - H2SO4 T - TSP Dodecahydral
mail:	WO #:				2	PA 5	PAS										H - Ascorbic Acid I - Ice	U - Acetone
					b ê	Ň	ME									2	J - DI Water	V - MCAA W - pH 4-5
oject Name:	Project #				2 2	Ö.	O d									ine	L - EDIA	Y - Trizma
FC, Dioxane	63003671				2 2	Ľ,	E L									臣		Z - other (specify)
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ample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT=Tissue	A=Air)	Ĩ a	16	SE	_			_	-		_	-	F	Special In	structions/Note:
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creditation status should be brought to Eurofins Environment Testing P	hiladelphia, LLC attention immedi	ately. If all	requested accreditation	is are cu	irrent ti	o date	, return	the sign	ed Chain	of Cu	stody at	testing t	o said d	complica	nce to E	Eurofir	ns Environment Testi	g Philadelphia, LLC.
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Eurofins Environment Testing Philadelphia 213 Witmer Road Horsham, PA 19044-0962



Curofins Environment Testing

Phone: 215-355-3900 Fax: 888-785-8567								
Client Information (Sub Contract Lab)	Sampler:			Lab P Doug	A: herty. Erin	Carrier Tracking No(s):	630-8478.1	
Client Contact: Shinpina/Receivina	Phone:			E-Mai	ougherty@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1	
Company: Eurofins Eaton AnalVical					Accreditations Required (See note): NELAP - New York		Job #: 630-44074-1	
Adress: 110 S Hill Street.	Due Date Request 9/12/2022	ted:			Analysis F	Requested	Preservation Codes	s: A - Hexane
City: South Bend	TAT Requested (d	lays):					B - NAOH C - Zn Acetate	V - None) - AsNaO2) - Na2O4S
State, Zip: IN, 46617							E - NaHSO4	2 - Na2SO3 ? - Na2S2O3
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #				40)		G - Amchlor H - Ascorbic Acid	3 - H2SO4 1 - TSP Dodecahydrate
Email:	WO #				s or Real		J - Di Wafer	4 - MCAA V - nH 4-5
Project Name: Village of Nyack - PFC, Dioxane	Project #: 63003671				es or ,4-Dio>		L-EDA	 Y - Trizma Z - other (specify)
Site: Village of Nvack Otly PEC	SSOW#:				Samp SD (\ Prep 1		of cc Other:	
			Sample Type	Matrix (Wewater,	Filtered rm MS/M REC/622_		Number	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) B	T=Tissue, A=Air)	522		F Special Inst	ructions/Note:
	X	X	Preservati	on Code:			X	
POE, Lab Sink (630-44074-1)	8/29/22	12:45 Eastern		inking Wate	×		-	
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Note: Since laboratory accreditations are subject to change. Eurofins Env laboratory does not currently maintain accreditation in the State of Origin I accreditation status should be brought to Eurofins Environment Testing P	I ironment Testing Philadelph isted above for analysis/tes niladelphia, LLC attention in	hia, LLC places sts/matrix being nmediately. If al	the ownership o analyzed, the sa I requested acc	f method, ana amples must b reditations are	Are & accreditation compliance upon out sub shipped back to the Eurofins Environment current to date, return the signed Chain of C	L L L L L contract laboratories. This sar Testing Philadelphia, LLC labo Sustody attesting to said compl	mple shipment is forwarded under cha ratory or other instructions will be pro- icance to Eurofins Environment Testir	vided. Any changes to Philadelphia, LLC.
Possible Hazard Identification Unconfirmed					Sample Disposal (A fee may t	Disposal By Lab	Archive For	onth) Months
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∆ Yes ∆ No

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Ver: 06/08/2021