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: Client ID: Sample Location:	L2009619-01 INTAKE (420-168400-1) 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 03/11/20 23:37 RS	Extraction Method Extraction Date:	I: 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)	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		eptance riteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C	-PFHxA)	99			70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-	-PFDA)	125			70-130
N-Deuterioethylperfluoro-1-octanesulfonan	nidoacetic 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 - Ma	nsfield Lab				
Perfluorooctanoic Acid (PFOA)	ND	ng/l	1.80		1
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/i	1.80		1
PFOA/PFOS, Total	ND	ng/l	1.80		1
Surrogate		% Recovery	Qualifier	Accep Crit	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA	۹)	104		70	-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA))	102		70	-130
N-Deuterioethylperfluoro-1-octanesulfonamidoace	etic Acid (d5-NEtFOS	AA) 74		70	0-130



		Serial_1	lo:03162011:25
Project Name:	Not Specified	Lab Number:	L2009619
Project Number:	42001382	Report Date:	03/16/20
	SAMPLE RE	SULTS	
Lab ID: Client ID: Sample Location:	L2009619-03 TREATMENT PLANT (420-168400-3) 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 00:28 RS	Extraction Metho Extraction Date:	

Parameter	Result Q	ualifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - M	lansfield 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		% Recovery	Qualifier		ptance teria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFH	xA)	91		7	0-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFD	A)	107		7	0-130
N-Deuterioethylperfluoro-1-octanesulfonamidoa	cetic Acid (d5-NEtFOS	AA) 76		7	0-130



		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:	I: EPA 537 03/06/20 07:15

Dilution	1 Factor
	1
	1
	1
cceptance Criteria	
70-130	
70-130	
70-130	
70-13	30



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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 C	Qualifier 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 - N	Iansfield Lab Assoc	ciated sampl	e(s): 01-04 Batcl	n: 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		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: WO	91347915-4	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 Quali	ifier % 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		Quality Cor			Lab Numbe Report Date		L2009619 03/16/20
Parameter		1	Native Sample	Duplica	e Sample	Units	RPD	Qual	RPD Limits	
Perfluorinated Alkyl Acids TREATMENT PLANT (42	•	- Mansfield Lab	Associated sample(s):	01-04 (QC Batch ID:	WG1347915-8	5 QC Sa	mple: L20096	19-03 C	lient ID:
Perfluorooctanoic Acid (PF	OA)		9.57	g	.26	ng/l	3		30	
Perfluorooctanesulfonic Aci	id (PFOS)		5.39	5	.04	ng/l	7		30	
PFOA/PFOS, Total			15.0	1	4.3	ng/l	5		30	
Surrogate				%Recove	ry Qualifier	%Recovery	Qualifier	Acceptance Criteria		
Perfluoro-n-[1,2-13	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

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

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
А	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	А	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
		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	754.01.0
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	754-91-6
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	4151-50-2
	NIMEFOSA	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
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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.
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	



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 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 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.
- 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 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.)

- $R \qquad \ \ \,$ 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)	Stautoe.			Lab i Bay	er, Debra	3)_ame	Irrading Noise		420-11699-1
Jient Contact Shipping/Receiving	Frare				E-Mas dbayer@envirotest!aboratories.com		aburatories com			Page Page 1 of 1	
Company				1				sis Reques	terl		S1L Job # 420-158400-1
Alpha Analytical doress	Due Date Request	led:				TT	Analys	and neques			Preservation Codes:
3 Walkup Drive,	3/12/2020 TAT Requested (d	Anaue 1-									A-HCL M-Herane
Nestborough	TAT Hequested to	mays:									B NeOH N None C - Zn Acetate O - AsNaO2
State, Zci MA, 01581	Star	114	3121320	>							D - Natoc Acid P - Na2045 E - NaHS04 Q - Na2SO3
none.	80 8			23		8					F - MeOH R - Na2S2503 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahysra
- mari	* 0/V				Sample (Yes or No)	SUBCONTRACT! PFOA and PFOS				e	1-loe U-Acetone J-Di Water V-MCAA
roject Namn Village of Nyack Water Department	Proved # 42001382		-		8	OVar				contribuen	K-EDTA W-ph 4-5 L-EDA Z-omer (specity)
Site	SSOV#				ampi	11 bb				of con	Other:
	-	T	Committee	Matrix	S De	RAC				bero	
			Sample Type	(Wesseler, Broadd,	Letter 1	DND				Total Number of	NH Sples 313/2003 Special Instructions/Note:
Sample Identification Client ID (Lab 1D)	Sample Date	Sample	(C=comp, G=grab)	O-maninia.	Field	Sen l				To the	Special Instructions/Nota
Sample Renulcation Chent ID (Cab ID)	Sample Date			tion Code:	XX						opecial instructions inde:
Intake (420-168400-1)	3/2/20	10.00	De	Water		x				2	unpres
Intake Field Blank (420-168400-2)	3/2/20	10:00	L. L	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
											312/20 23
			321-	003							
										-	
Possible Hazard Identification					Sam	ple Dispo	osal (A fee m	ay be assess	ed if samples a	re retain	ed longer than 1 month)
	Person B Unk	nown	Radiologica	ſ	5		To Client		al By Lab	Arch	inve For Months
Deliverable Requested: I, II, III, IV, Other (specify)			<u> </u>			HAN HYSTELD	acinsicie M80				
Empty Kit Relinquished by	Date Comp	Date.		7	Time	1	11	A.	lethod of Shipment	_	6
ratinguisting & fail	DaterTupe CR/04/20 DateTune	P 12	:35	En	1	X	Kau	In.	3-4-20	10	D3F Company
Hindericaly King wood 7.4	DateiTime	141	5	Company	1	there by	Un6	fille	1 Steetime	ki	11:46 Correct
Seanny and by the sean of the	Date Tury 2 /	71	111	Comany	R	loceiver	01	1 -	7 Junit		Compeny
Custody Seals Intact: Christody Seal No: 30-21,0121 No 1. Huddlin_ 3/5/20 0400	1470	94	t	TAR	0	Looler Temp	erature(s) *C and	I Omer Hemarka	1-101	1ac	

Nyack Water Department

2020 QUARTER 3 SAMPLING REPORT



ANALYTICAL REPORT

Lab Number:	L2038494
Client:	Envirotest Laboratories Inc. 315 Fullerton Avenue
	Newburgh, NY 12550
ATTN:	Debra Bayer
Phone:	(845) 562-0890
Project Name:	VILLAGE OF NYACK WATER DEPT.
Project Number:	42001382
Report Date:	09/29/20
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	0:09292010:25
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	d: 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 - N	Mansfield Lab					
Perfluorooctanoic Acid (PFOA)	9.95		ng/l	1.76		1
Perfluorooctanesulfonic Acid (PFOS)	6.49		ng/l	1.76		1
Surrogate			% Recovery	Qualifier		eptance iteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFI	HxA)		70		7	70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFI	DA)		71		7	70-130

90

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



70-130

		Serial_No	0:09292010:25
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	l: EPA 537
Analytical Method:	122,537	Extraction Date:	09/22/20 07:00
Analytical Date:	09/24/20 19:44		
Analyst:	SH		
•			

Parameter	Result Qualif	ier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Ma	nsfield Lab				
Perfluorooctanoic Acid (PFOA)	ND	ng/l	1.84		1
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/l	1.84		1
Surrogate		% Recovery	Qualifier		otance teria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)		79		7	0-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)					
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	73		7	0-130



		Serial_No	0:09292010:25
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	d: EPA 537
Analytical Method:	122,537	Extraction Date:	09/22/20 07:00
Analytical Date:	09/24/20 19:53		
Analyst:	SH		

Parameter	Result Qu	alifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Mans	sfield Lab				
Perfluorooctanoic Acid (PFOA)	8.20	ng/l	1.79		1
Perfluorooctanesulfonic Acid (PFOS)	5.08	ng/l	1.79		1
Surrogate		% Recovery	Qualifier	Accep Crit	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	70		70	-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	71		70	-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)		A) 82		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:	L2038494-04 R	Date Collected:	09/14/20 08:30
Client ID:	LAB SINK TRIP BLANK (420-180665-4)	Date Received:	09/15/20
Sample Location:	VILLAGE OF NYACK WATER DEPT.	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Dw	Extraction Method	I: EPA 537
Analytical Method:	122,537	Extraction Date:	09/22/20 07:00
Analytical Date:	09/25/20 08:33		
Analyst:	SH		

Parameter	Result Qu	alifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Man	sfield Lab				
Perfluorooctanoic Acid (PFOA)	ND	ng/l	1.80		1
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/l	1.80		1
Surrogate		% Recovery	Qualifier		otance teria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)		84		7	0-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)		77		7	0-130
N-Deuterioethylperfluoro-1-octanesulfonamidoaceti	ic Acid (d5-NEtFOSA	A) 84		7	0-130



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	Ν	IDL
Perfluorinated Alkyl Acids by EPA	537 - Mansfi	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		

		Α	cceptance
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 %R		%Recovery		%Recovery			RPD
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits		
				-						
Perfluorinated Alkyl Acids by EPA 537 - Mans	sfield Lab Assoc	iated sample(s	s): 01-04 Batc	h: WG141	2759-2 WG14127	759-3				
Perfluorooctanoic Acid (PFOA)	104		114		70-130	9		30		
Perfluorooctanesulfonic Acid (PFOS)	100		85		70-130	16		30		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance 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 Information			Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	pН	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	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
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	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

Footnotes	
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.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
	associated field samples.
SRM	 be 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. Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the
RPD	 Reporting Dinit: The value at which an instrument can accuracy includes in analyte at a specific concentration. The value includes any adjustments from dilutions, concentrations or moisture content, where applicable. Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NI	- Not Ignitable.
	reporting unit. - N-Nitrosodiphenylamine/Diphenylamine.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's
NA	- Not Applicable.
MSD	using the native concentration, including estimated values. - Matrix Spike Sample Duplicate: Refer to MS.
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
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.
	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.)
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.)
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.)
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.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
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.
EPA	- Environmental Protection Agency.
	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.
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). Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an
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.)
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Report Format: Data Usability Report



Project Name: VILLAGE OF NYACK WATER DEPT.

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- 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



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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

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Serial_No:09292010:25 EnviroTest Laboratories Inc.

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MAL

Chain of Custody Record

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Newburgh, NY 12550

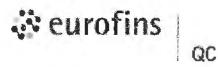
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Nyack Water Department

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 ID
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	

Eurofins QC, LLC – Horsham, PA

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorononanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorooctanesulfonic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorohexanesulfonic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluoroundecanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorotetradecanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorodecanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorotridecanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluoroheptanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorododecanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorohexanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorobutanesulfonic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	101		70 - 130				10/22/20 08:37	1	DCS9
13C2 PFHxA	93		70 - 130				10/22/20 08:37	1	DCS9
13C3 HFPO-DA	91		70 - 130				10/22/20 08:37	1	DCS9
d5-NEtFOSAA	94		70 - 130				10/22/20 08:37	1	DCS9

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

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** 1.8 0.45 ng/L 10/16/20 13:38 1 VK3G Perfluorooctanoic acid 13 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 1 VK3G Perfluorohexanesulfonic acid 4.6 1.8 10/16/20 13:38 0.45 ng/L Perfluoroundecanoic acid ND 1.8 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 1 VK3G ND 1.8 0.45 ng/L 10/16/20 13:38 Perfluoroheptanoic acid 4.4 1.8 0.45 ng/L 10/16/20 13:38 1 VK3G Perfluorododecanoic acid ND 1.8 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 13C2 PFHxA 73 70 - 130 1 VK3G 10/16/20 13:38 13C3 HFPO-DA 67 S1-70 - 130 1 VK3G 10/16/20 13:38

70 - 130

85 *3

Lab Sample ID: 630-8485-2 Matrix: Drinking Water

Eurofins QC, LLC – Horsham, PA

10/16/20 13:38

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.

			NYS-MCL				5
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Type	
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	
		-					

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	Ргер 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
Naska (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
ławaii	State	N/A	01-31-21
linois	NELAP	004559	01-14-21
owa	State	361	03-02-22
Kansas	NELAP	E-10151	10-31-20
(entucky (DW)	State	KY90088	12-31-20
Centucky (UST)	State	1.01	11-30-20
Kentucky (WW)	State	KY90088	12-23-20
ouisiana	NELAP	02055	06-30-21
Aaine	State	2019012	03-12-21
	State	100	06-30-21
/aryland			
Assachusetts	State	M-PA009	06-30-21
<i>A</i> ichigan	State	9930	01-31-21
/linnesota	NELAP	042-999-487	11-02-20
<i>A</i> issouri	State	450	01-31-22
/ontana (DW)	State	0098	11-08-20
/ontana (UST)	State	0098	01-01-22
lebraska	State	NE-OS-32-17	01-31-20 *
levada	State	PA000092019-3	07-31-21
lew Hampshire	NELAP	273019	11-17-20
lew Jersey	NELAP	PA011	01-03-21
lew York	NELAP	10670	11-05-20
lorth Carolina (DW)	State	42705	07-31-21
lorth Carolina (WW/SW)	State	521	10-27-20
lorth Dakota	State	R-205	01-31-21
Oklahoma	NELAP	R-205	02-01-21
Dregon	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
ennessee	State	02838	01-28-21
exas	NELAP	T104704194-20-38	08-31-21
Itah	NELAP	PA000092019-16	02-28-21
/ermont	State	VT - 36037	10-28-20
irginia	NELAP	10561	06-14-21
Vashington	State	C457	04-11-21
Vest Virginia (DW)	State	9906 C	12-31-20
Vest Virginia DEP	State	055	10-25-20
-	State	8TMS-L	01-07-21
Nyoming Nyoming (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.	5
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J
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				CH	AIN OF Page			DDY	(Lab LIN	IS No:	MATRIX CODES
	QC	Bill to/Report	to (if differe	ent)										SE ONLY:	DW: DRINKING WATER
702 Electronic Drive Pho	one: 215-355-3900													Ascorbic/HCL Vials # HCl Vials	
	215-392-0626	Sampling Site	e Address (if diffe	rent) Include	State								Na ₂ S ₂ O ₃	WW: WASTEWATER
Client/Acct. No. WO9	890													Na OH/Zn acetate pH	SO: SOIL
Address 230 RT E												_	#	HNO3 pH	SL: SLUDGE
													#	H2SO4 pH	OIL: OIL
City/State/Zip W.NYACK, N	Y 10960	P.O. No.			F	WSID	#:							NaOH pH	SOL: NON SOIL SOLID
hone/Fax 845 358	3734	Quote #												Unpreserved	MI: MISCELLANEOUS
client Contact: Gilbert -		e-mail:											#	HCI #NH4CI #MeOH	X: OTHER
PROJECT		Collec	tion	G	_		1	Numbe		Contain				# DI Water	
FIELD ID		Date	Military Time	R A	O Matrix M Code	Total	H 2 S 0 4	H V I a s	N	N Z a n O A H c	UNPRE	A		ANALYSIS REQUESTED	Field pH, Temp (⁰ C), DO, Cl2, Cond. etc.
P.O.E		10/13/20	1137	k'									PŦ	AS + Field Blank	
			-					+	+			-			
									-						
								-	+						
															Loc: 630
													630-848	5 Chain of Custody ——	
													1		
SAMPLED BY: (Name/Company)	TAT: C STAN	DARD (10 DA	Y)	Rep	ort Format:	Star	ndard] NJ-	RDD		SRP-	RDD	Field Parameters Analyz	
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SARA CAMACHO	Please call for pr	icing and availa	bility for rus	sh (<1) day) turnaro	und and	for al	l but s	tanda	ard repo	rting	format		SC3/GAF	
SAMPLE CUSTODY EXCHANGE	ES MUST BE DO	CUMENTER	D BELO	N. U	SE FULL I	EGAI	_ SIC	GNA	TUR	RE, DA	TE.	AND	MILITARY	Y TIME (24 HOUR CLOCK, I.E. 8AM IS 0	800, 4 PM IS 1600)
RELINQUISHED BY SAMPLAR	DATE	TIME R	ECEIVED	BY						DATE			TIME	DELIVERY: EQC COURIER CLIENT UPS FEDEX OTHER	Custody Seal Number
1. Camacho	10/13/20	1445 1			ER 18					DATE	3	20)445 TIME		
RELINQUISHED BY	DATE	1010-000 E.A.	ECEIVED	BY						DATE				Rec'd Temp.: 4.72 Initials: 503 Id	N Location: ER
2. RELINQUISHED BY	DATE		ECEIVED	BY						DATE			TIME	COMMENTS:	
3.		3						_						_	
RELINQUISHED BY	DATE		ECEIVED	BY						DATE			TIME		
4.	DATE		ECEIVED	DV		-				DATE			TIME	-	
RELINQUISHED BY	DATE		ECEIVED	Dĭ						DAT				Hanardava was Inc To Att To and	2020
5.						Pag		0 of	11					Hazardous: yes/no FSR#FS27	3/1/2021 (Rev.

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 PM Doug	herty,	Erin				Carrie	r Trackin	g No(s):		COC No: 630-2677.1	
Client Contact:	Phone:			E-Mail							of Origin:			Page:	
Shipping/Receiving							eurofins	(See not		New	York			Page 1 of 1	
Eurofins Lancaster Laboratories Env LLC					NELA	P - Ne	ew Jers	ey and	3).					Job #: 630-8485-1	
Address: 2425 New Holland Pike,	Due Date Request	ted:						0.00	lugia I	Demusal			-	Preservation Co	les:
City:	10/22/2020 TAT Requested (d	lavs):			-			Ana	iysis	Request	ea	1 1	1 1	A - HCL	M - Hexane
Lancaster		-1-1-												B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: PA, 17601						PFOA,	PFOA,							D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone: 717-656-2300(Tel)	PO#:				0	PFNA,	PENA,							F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahyd
Email:	WO #:				No)	(dow	laoy						10	I - Ice	U - Acetone V - MCAA
Project Name: Village of Nyack - PFC	Project #: 63003671				le (Yes es or N	Prep (Prep (I						containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site	SSOW#				Sampli ISD (Ye	Md	M						of con		
		1	Type (latrix V=water,	m MS/M	DWI537.1	537.1_DW(537.1_DW_Prep (MOD) FFNA, PFOA, PFOS (Hold)						Number		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, o		Perfor	37.1	37.1 FOS (Total I	Special In	structions/Note:
Sumple radiation " onent ib (Edb ib)		×	Preservation		XX	4) 11			1	(19) (19) (1	150		X	Special II	structions/Note:
POE (630-8485-1)	10/13/20	11:37 Eastern	prink	ing Wate		x	Competence Competence						2	5 day turnaround a	approved by the lab
BLANK (630-8485-2)	10/13/20	11:37 Eastern	Prink	ing Wate			х						1	5 day turnaround a	approved by the lab
		-			1	les.	-								
	and the														
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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.	for analysis/tests/matrix being a	analyzed, the s	amples must be sh	pped back	to the E	urofins	S QC. LLC	- Horsha	m, PA lal	boratory or c	ther instr	uctions will	is forward be provide	ed under chain-of-cus d. Any changes to ad	stody. If the laboratory creditation status sho
Possible Hazard Identification					Sa	mple	Dispos	al (A fe	e may	be assess	sed if s	amples a	re retain	ned longer than t	month)
Unconfirmed						Re	eturn To	Client	Ľ	Disposi	al By La	ab	Arch	ive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	1		Spe	ecial I	Instructi	ons/QC	Require	ements:					
Empty Kit Relinquished by:		Date:		1	Time:			_		N	Method o	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.

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 12:55:18 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	Analyst
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
d5-NEtFOSAA	98		70 - 130				11/06/20 22:03	1	Y6ZN

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				5
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	
L		<u> </u>					

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 Туре
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
Naska	State	PA00009	06-30-21
laska (UST)	State	17-027	01-31-21
rizona	State	AZ0780	03-12-21
rkansas 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
E Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-22
Delaware (DW)	State	N/A	01-25-21
Iorida	NELAP	E87997	07-01-21
lawaii	State	N/A	01-31-21
linois	NELAP	004559	01-14-21
owa	State	361	03-02-22
ansas	NELAP	E-10151	10-31-21
entucky (DW)	State	KY90088	12-31-20
entucky (UST)	State	1.01	11-30-20
centucky (WW)	State	KY90088	12-23-20
	NELAP	02055	
ouisiana			06-30-21
laine	State	2019012	03-12-21
laryland	State	100	06-30-21
lassachusetts	State	M-PA009	06-30-21
lichigan	State	9930	01-31-21
linnesota	NELAP	042-999-487	12-31-21
lissouri	State	450	01-31-22
lontana (DW)	State	0098	11-08-20
lontana (UST)	State	0098	01-01-22
lebraska	State	NE-OS-32-17	01-31-20 *
levada	State	PA000092019-3	07-31-21
lew Hampshire	NELAP	273019	11-17-20
lew Jersey	NELAP	PA011	01-03-21
lew York	NELAP	10670	04-01-21
lorth Carolina (DW)	State	42705	07-31-21
orth Carolina (WW/SW)	State	521	12-20-20
lorth Dakota	State	R-205	01-31-21
klahoma	NELAP	R-205	02-01-21
Dregon	NELAP	PA200001-018	09-12-21
ALA	Canada	1978	05-08-21
ennsylvania	NELAP	36-00037	12-03-20
chode Island	State	LAO00338	02-28-21
outh Carolina	State	89002002	01-31-21
ennessee	State	02838	01-28-21
exas	NELAP	T104704194-20-38	08-31-21
Itah	NELAP	PA000092019-16	02-28-21
ermont	State	VT - 36037	10-29-21
	NELAP	10561	06-14-21
Vashington	State	C457	04-11-21
Vest Virginia (DW)	State	9906 C	12-31-20
Vest Virginia DEP	State	055	12-28-20
Vyoming	State	8TMS-L	01-07-21
Vyoming (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

C	occany	
G	USSal V	

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 - 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 > 640 9890 Schd: 11183 LLAGE OF NYACK W.T.P. 30 ROUTE 59 1YACK, NY, 10960 HORSHAM, PA. .) 215)555-555 HOME 215)333-333 HOME #2 215)355-3535 PHONE # Route: 1. KENN (C) 845.597	Project Name: Start Date: 01// Comme Blank p		Ρ	# # # # # # # #		acetate pH pH pH pH red			Tests By:		/Time:	
			s e e C u H o d P I o C i	00-	Collection Date	Collection (Military)		Free Cl2 mg/L	pH/TempC	BR2 YES/NO	Total CL2 mg/L	
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- T: - W: - Th: - F: - S	St: - Sn: -								Hazardous	5 T/IN		

Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567							_		_		10				-	200 No.		
Olivet Information (Sub Contract Lab)	Sampler:							t herty, Erin					Carrier Tracking No(s):				COC No: 630-2926.1	
Client Information (Sub Contract Lab)	Phone:	Phone: E-Mail:											State of Origin: New York			Page: Page 1 of 1		
Shipping/Receiving								ougherty@eurofinsus.com Accreditations Required (See note):					New TOR			Job #		
Company: Eurofins Lancaster Laboratories Env LLC							lew Je									530-9481-1		
Address.	Due Date Request	ed:							Analy	sis Re	eque	sted			- 1	Preservation Cod		
2425 New Holland Pike, ,		11/11/2020 TAT Requested (days):															M - Hexans N - None	
Lancaster							(Hald									C - Zn Acetale D - Nilric Acid	0 - AsNa02 P - Na204S	
State, 20p: PA, 17601					10	PFOS	108									E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3	
Phone:	PO #:					A, P	A, P									G - Amchlor	5-H2SO4	
717-656-2300(Tel)	IND #	WO#:					537.1_DW/537.1_DW_Prep PFNA, PFOA, PFOS (Held) 537.1_DW/537.1_DW_Prep PFNA, PFOA, PFOS (Held)									H - Ascorbic Acid I - Ico	 TSP Dodecahydrate J - Acetone 	
Email:	WOR.				ample (Yes or D (Yes or No)	FNA.	FNA,								2	J - DI Water K - EDTA	V - MCAA W - pH 4-5	
Project Name:	Project #:	Project #: 63003671					d da	de									Z - other (specify)	
Village of Nyack - PFC Sile:		63003671 SSOW#:					m MS/MSD (Yes or No) DW/S37.1_DW_Prep PFNA, DW/S37.1_DW_Prep PFNA,								CON	Other:		
ane.					San	10	5								r of			
			Sample	Matrix	MSIN	1537.	1537.								Total Number			
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Rem is Identification (Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, G=orab)	D=sastaloll, ET=Tissue, A=Alr	Field	537.1	537.1								Tota	Special In	structions/Note:	
Sample Identification - Client ID (Lab ID)	Sample Date	5		ation Code:	XX			CST 10							X			
LAB SINK (630-9481-1)	10/30/20	12:32		rinking Wat		X									2	5 day tumaround a	pproved by the lab	
		Eastern 12:29	-		++	-		-		+++	-		++	++	1	5 day turnaround a	pproved by the lab	
FIELD BLANK (630-9481-2)	10/30/20	Eastern		rinking Wat	11	-	X	-	-		-		++		100			
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Note: Since laboratory accreditations are subject to change, Eurofins QC, currently maintain accreditation in the State of Origin listed above for analy	LLC - Horsham, PA places t	the ownership	of method, and	alyte & accredita	tion con	nplianc	o upon	out subo	DA lab	indenode a	ies. This	s sample :	shipment is i s will be pro-	forwarded vided. An	d und	er chain-of-custody.	If the laboratory does not a status should be brough	
currently maintain accreditation in the State of Origin listed above for analy to Eurofins QC, LLC – Horsham, PA attention immediately. If all requested	sistests/matrix being analyz I accreditations are current I	lo date, return l	the signed Chu	in of Custody a	ttesling t	to said	complic	ance lo	Eurolina	QC, LLC	C - Hors	sham, PA.		All tone cont				
Possible Hazard Identification					S	ample	Disp	osal (A fee r	nay be	asse	ssed if	samples	are reta	alne	d longer than 1	month)	
Unconfirmed						\square_{F}	Return	To Cli	ent		Disp	osal By	Lab		rchi	ve For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	1		Sp	pecial	Instru	ctions	QC Re	quirem	nents:							
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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:

..... 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 12:59:05 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.

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	Ass
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

MDL Unit

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

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

4 5

g/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

D

Client Sample ID: POE Date Collected: 02/17/21 11:39 Date Received: 02/17/21 15:35

Analyte

Perfluorooctanoic acid	7.2	1.8	0.44	ng/L	02/23/21 20:18	1	Y6ZN
Perfluorononanoic acid	1.2 J	1.8	0.44	ng/L	02/23/21 20:18	1	Y6ZN
Perfluorooctanesulfonic acid	5.1	1.8	0.44	ng/L	02/23/21 20:18	1	Y6ZN
Surrogate	%Recovery Qualifier	Limits			Analyzed	Dil Fac	Analyst
13C2 PFDA	106	70 - 130			02/23/21 20:18	1	Y6ZN
13C2 PFHxA	96	70 - 130			02/23/21 20:18	1	Y6ZN
13C3 HFPO-DA	84	70 - 130			02/23/21 20:18	1	Y6ZN
d5-NEtFOSAA	99	70 - 130			02/23/21 20:18	1	Y6ZN

Result Qualifier

Client Sample ID: BLANK

Date Collected: 02/17/21 11:39

Date Received: 02/17/21 15:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	ND		1.8	0.45	ng/L		02/23/21 20:29	1	Y6ZN
Perfluorononanoic acid	ND		1.8	0.45	ng/L		02/23/21 20:29	1	Y6ZN
Perfluorooctanesulfonic acid	ND		1.8	0.45	ng/L		02/23/21 20:29	1	Y6ZN
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.

Γ			NYS-MCL				5
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Type	
Perfluorooctanoic acid	7.2	ng/L	10	1.8	EPA 537.1	Total/NA	6
Perfluorooctanesulfonic acid	5.1	ng/L	10	1.8	EPA 537.1	Total/NA	
L		0					_

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	Ргер 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
2LA	Dept. of Defense ELAP	1.01	11-30-22
laska	State	PA00009	06-30-21
laska (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
lorida	NELAP	E87997	07-01-21
lawaii	State	N/A	01-31-22
linois	NELAP	004559	01-31-22
owa	State	361	03-02-22
ansas	NELAP	E-10151	10-31-21
čentucky (DW)	State	KY90088	01-01-22
Centucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	12-31-21
ouisiana	NELAP	02055	06-30-21
laine	State	2019012	03-12-21
<i>M</i> aryland	State	100	06-30-21
/assachusetts	State	M-PA009	06-30-21
<i>l</i> ichigan	State	9930	01-31-22
/innesota	NELAP	042-999-487	12-31-21
ſissouri	State	450	01-31-22
/ontana (DW)	State	0098	01-01-22
/ontana (UST)	State	0098	01-01-22
lebraska	State	NE-OS-32-17	01-31-20 *
levada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	01-10-22
Vew Jersey	NELAP	PA011	06-30-21
lew York	NELAP	10670	04-01-21
lorth Carolina (DW)	State	42705	07-31-21
lorth Carolina (WW/SW)	State	521	12-31-21
lorth Dakota	State	R-205	01-31-22
Oklahoma	NELAP	R-205	08-31-21
	NELAP	PA200001-018	09-12-21
Dregon PALA		1978	
ALA Pennsylvania	Canada NELAP	36-00037	05-08-21 01-31-22
Rhode Island	State	LAO00338	02-28-21 01-31-22
South Carolina	State	89002002	
ennessee	State	02838	01-31-22
exas		T104704194-20-38	08-31-21
ltah	NELAP	PA000092019-16	02-28-21
ermont	State	VT - 36037	10-29-21
/irginia	NELAP	10561	06-14-21
Vashington	State	C457	04-11-21
Vest Virginia (DW)	State	9906 C	12-31-21
Vest Virginia DEP	State	055	06-30-21
Vyoming	State	8TMS-L	01-31-22
Wyoming (UST)	A2LA	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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6

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL

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

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

🤹 eurofin					AIN OF Page			DY				Lab	LIMS No:	MATRIX CODES
	QC	Bill to/Repor	t to (if diffe	rent)								LAE	BUSE ONLY:	DW: DRINKING WATER
702 Electronic Drive	Phone: 215-355-3900											#	Ascorbic/HCL Vials # HCl Vials	GW: GROUND WATER
Horsham, PA 19044	Fax: 215-392-0626	Sampling Sit	e Address	(if differ	ent) Include	State						#	Na ₂ S ₂ O ₃	WW: WASTEWATER
Client/Acct. No. VillAcac	OF NYACE L	later	+PFA	TM	ont Pi	ANT						#	Na OH/Zn acetate pH	SO: SOIL
Address 230 RT	· 59		1.00			111						#	HNO ₃ pH	SL: SLUDGE
COO FIL												#	H ₂ SO ₄ pH	OIL: OIL
City/State/Zip	NY, 10960	P.O. No.			F	WSID #	:					#	NaOH pH	SOL: NON SOIL SOLID
Phone/Fax 845 2	58 ac41	Quote #											Unpreserved	MI: MISCELLANEOUS
Client Contact: Gilbert	Francois	e-mail:											HCI #NH4CI #MeOH	X: OTHER
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RELINQUISHED BY	DATE		ECEIVED	BY					DA	TE		TIME		
4. RELINQUISHED BY	DATE	TIME R	ECEIVED I	37			_			TE		TIME		
5.	DATE	5											Hazardous: yes/no FSP#FSQ	802.02
						Page	10	of	11-					3/1/2021 (Rev. 2

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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 PM Doug	M: gherty, Erin						Carrier Tracking No(s):						COC No: 630-3875.1		
lient Contact:	Phone:			E-Mail:		-							ate of C					Page:	
Shipping/Receiving					_		_	urofins				N	ew Yo	ork				Page 1 of 1	
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ote: Since laboratory accreditations are subject to change, Eurofins QC, I ot currently maintain accreditation in the State of Origin listed above for ar	LC – Horsham, PA place	is the ownersh analyzed, the :	samples must	analyte & accredi be shipped back	tatior to th	n comp ne Eurc	pliance ofins Q	e upon c IC, LLC	out sub – Hors	contra sham, F	ct labo PA lab	oratorie oratory	s. This or oth	s sampli er instru	e shipm uctions v	ent is foi will be pr	rwarde ovideo	ed under chain-of-cu d. Any changes to a	stody. If the laboratory does ccreditation status should be
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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:

..... Links

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The

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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.

· 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 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

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

loh	ın	630-	171	30-	1
JOD	ID.	030-	1/1	30-	I

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

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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 ³	*-	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	Analysi
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

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 F	ac 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

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 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 537.1 537.1 DW Prep **Drinking Water** Perfluoroundecanoic acid 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

5

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:

4	
1	
_	
_	
	5
	6

Method	Method Description	Protocol	Laboratory	- 3
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA		-
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE	
Protocol Ref	erences:			5
EPA = US	Environmental Protection Agency			6

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

Eurofins QC, LLC – Horsham, PA

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 Samping to be Call him before,	TO CELL	# HNO3 pH # H2SO4 pH	L Vials #	otal F	Field Ta	ests By:	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		2	ng/L	pH/TempC	YES/NO	mg/L	7
FIELD WORK CODE:			5)10/21	13:26	1					
			630-17130 0	Chain of Custod						-
							Cooler	r ID:		
Sample Collected By Circle One Circle One Client		Required TAT: Standa	rd/Rush# Days							
Relinquished By Tim	e Date Received By $05/16/21$ ± 16	Time Date		Ced Y/N Site	F X		Comments (r	eporting, meth	iods, 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:		8/21/21 GPS X:	Y:				Hazardous Y	/N		

Eurofins QC, LLC – Horsham, PA

702 Electronic Drive

Chain of Custody Record



Environment Testing America

Phone: 215-355-3900 Fax: 888-785-8567	Sampler			Lab F		. 5-				0	amer Trad	king No(s)			OC No:	
Client Information (Sub Contract Lab)	Phone:			E-Ma	gherty	/, Eri	n				tate of On	gin:		-	30-4643.1 age:	
Shipping/Receiving					Doug			ofinset.			New York			Р	Page 1 of 1	
Company: Eurofins Lancaster Laboratories Env LLC							New Y	uired (Se 'ork	e note):						ob #: 30-17130-1	
Address: 2425 New Holland Pike	Due Date Request 5/23/2021	ed:							Analysi	s Rea	lested			_ I	reservation Cod	
City	TAT Requested (d	ays):				Т	1							B	A - HCL 3 - NaOH	M - Hexane N - None
LancasterState, Zip						1	S							C	C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
PA, 17601						DEG	PFC								E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 717-656-2300(Tel)	PO#:				0	DEO PE	PFOA								3 - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydr
Email:	WO #:				Sample (Yes or No.	INA	FNA,							yn J	- Ice J - DI Water	U - Acetone V - MCAA
Project Name:	Project #: 63003671				(Yes	dua	rep P								< - EDTA - EDA	W - pH 4-5 Z - other (specify)
Village of Nyack Site:	SSOW#:	-			mple)ther:	
Village of Nyack Qtly PFC					ered Sample (Ye									5		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w-water, 8-solid, 0-waste/oli, BT-Tissue, A-Air)	Field Filtered	517 1 DW/517 1 DW Pren PENA PEOA PEOS	537.1_DW/537.1_DW_Prep PFNA, PF0A, PF0S (Hold)							Total Number	Special in	structions/Note:
Sample identification - Chent ib (Lab ib)		>		ation Code:	$\overline{\mathbf{X}}$									X		
POE, Lab Sink (630-17130-1)	5/10/21	13:25 Eastern		rinking Wat		,	(2 5	day turnaround a	approved by the lab
Field Blank (630-17130-2)	5/10/21	13:26 Eastern		rinking Wat			X							1 5	day turnaround a	approved by the lab
						T										
			-			╈										
					tt	+	-									
						$^{+}$	-									
					$^{++}$	+	+									
					╂╊	+	+		++							
Note: Since laboratory accreditations are subject to change, Eurofins Q not currently maintain accreditation in the State of Origin listed above for	or analysis/tests/matrix being	analyzed, the :	samples must	be shipped bac	k to the	Euro	fins QC	LLC - H	Iorsham, P.	A laborato	ry or other	instructions	will be provi	ided.	Any changes to ac	tody. If the laboratory creditation status shou
brought to Eurofins QC, LLC - Horsham, PA attention Immediately. If a	Il requested accreditations a	re current to da	ate, return the	signed Chain o												
Possible Hazard Identification					s	amp						•			d longer than 1	
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delive	able Rank	1			neci		1 To Cli	ient JQC Req		sposal B	/ Lab	An	chive	e For	Months
Deriverable Requested. 1, ii, iii, iv, Other (specify)			·		Ľ	peer		0010110	alo neq	unemen						
Empty Kit Relinquished by:	In	Date:		0	Time						Metho	od of Shipm				10
Relinquished by:	Date/Time:	115	5:15	Company		R	ceived	DA:	1			Date/				Company
Relinquished by	Date/Time:			Company		R	ceived	by	1	-		Date/	Time:			Company
Relinquished by:	Date/Time:			Company			ceived	. /				Date/	Time 10/21		2120	Company ELLE
Custody Seals Intact: Custody Seal No. PEAS				I		- C	oler Ter	nperatur	B(s) Cana	Other Re	marks: ,	11	10	~	ELL.	F- 79
Yes A No									- /	6	DI	4	\mathcal{U}	Ú.	7.11	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

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: 10/6/2021 3:10:06 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.

· 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 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

Analyte	Result C	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	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 G	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

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

Lab Sample ID: 630-21256-2

Matrix: Drinking Water

Client Sample Results

Job ID: 630-21256-1

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

Surrogate	%Recovery Qualifier	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

Lab Sample ID: 630-21256-2 Matrix: Drinking Water

Accreditation/Certification and Definitions Summary

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

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 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 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 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

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	FC, Dioxane	J	00 1D. 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	-
Protocol Refe	erences:			5
EPA = US I	Environmental Protection Agency			6
Laboratory R	eferences: rofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancasi	er DA 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

Eurofins QC, LLC Schd: 55659	Expected: MONDAY 08/02/21 - 09 Project Name: VILLAGE OF NYACK WATER T		LAB USE ONLY # Ascorbic/HCL Vials	Bottle Type # HCL	Violo			2
GILBERT FRANCOIS VILLAGE OF NYACK WATER TREATMENT PLANT			# Association for vision # NA2S2O3 # NaOH/Zn acetate pH # HNO3 pH			630-21256 Chain of Cus		
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 e C C	# Na2SO3/HCL # DI Water		Field	Tests By: CGP/ER	/Time:	
		e C C u H o o d P I I o C i i	Collection Colle Date (Milita	ection Time Total ary) # <u>Bottle</u> s	Free Cl2 mg/L	pH/TempC YES/NO	Total CL2 mg/L	7
7263525-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, DIOXANE, PFC				(Gr.) 250 72 17				
7263525-2 FIELD BLANK PFC HIMI IIII IIII III III IIIIII IIIIIIIIII			8126/21 9:	41 1				
						Cooler ID:		1
Sample Collected By Circle One Circle One Cilent		Required TAT: Stand	dard/Rush# Days				L	1
Relinguished By Tin Carlin Jackin 15:2	ne Date Received By	Time Dat 15:24 81261			Initials	All 17 Company History For	nds need to be	
		08/12/21 000 X:				FSR#: FS25	2072	
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:		08/13/21 GPS X:	Y: Lab 10.01 001 00 100 01 0110 1000			Hazardous Y/N		J

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 Information (Sub Contract Lab)				Lab PM Dough	PM: ugherty, Erin							Carrier Tracking No(s):					COC No: 630-5646.1	
t Contact: Phone: E-					lail: n.Dougherty@eurofinset.com							State of Origin: New York					Page:	
Shipping/Receiving Company:		_						ed (See		_	N	ew Yo	rk				Page 1 of 1 Job #:	
Eurofins Lancaster Laboratories Environm							ew Yo										630-21256-1	
Address: 2425 New Holland Pike,	Due Date Requested 9/9/2021	9/9/2021					Analysis Requested										Preservation Cod A - HCL	es: M - Hexane
City: Lancaster	TAT Requested (day	/\$):				81	18										B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip:						tof	t of										D - Nitric Acid	P - Na2O4S
PA, 17601			-	_		IL S	LIS										E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 717-656-2300(Tel)	PO #:				101	A 637.	A 637.										G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahyd
Email:	WO #:				No)	W EP	W EP									2 2	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: Village of Nyack	Project #: 63003671			2	es or	Prep D	Prep D									containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site: Village of Nyack Qtly PFC	SSOW#:					M	_Wd_1									õ	Other:	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Mat Type (www c(C=comp, owwas G=grab) BT=Tissue	TİX ater, ild, te/oll,	Perform MS/MSD (Yes	637.1_DWI637.	637.1_DW/637.1_DW_Prep DW EPA 637.1 List of 18 (Hold)									Total Number	Special In	structions/Note
		\times	Preservation Co													X		
POE, Lab Sink (630-21256-1)	8/26/21	09:50 Eastern	prinking	Wate	Ť	X										2		
Field Blank (630-21256-2)	8/26/21	09:47 Eastern	Prinking) Wate			X									1		
		_																
Note: Since laboratory accreditations are subject to change, Eurofins Q currently maintain accreditation in the State of Origin listed above for ar brought to Eurofins QC, LLC – Horsham, PA attention immediately. If a	alysis/tests/matrix being analyz	ed, the samp	oles must be shipped ba	ick to the	Euro	fins QC	C, LLC -	- Horsha	m, PA	laboral	ory or o	ther inst	ructions	will be p	is forwa	arded (J. Any	under chain-of-custor changes to accredit	ly. If the laboratory of ation status should be
Possible Hazard Identification															are re	taine	d longer than 1	month)
Unconfirmed								To Clie				posal	By Lat	,	\Box_{μ}	Archi	ve For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	ble Rank:	1		Sp	pecial	Instru	ctions/	QC R	equire	ement	5:						
Empty Kit Relinquished by:	1	Date:			Time	:						Me	hod of	Shipmen	it:			
Relinquished by:	Date/Time:	1 14	930 Compa	Tec	_	Rec	eived by	29	18	FAS	;)			Date/Tir	me:			Company
Relinquished by:	Date/Time:		Compa		/	Rec	eived by			-	-			Date/Tir	n o.			Company
Relinquished by:	Date/Time:		Compa	ny		Rec	eived by	r. {{	Ç	2	n	_	-		Ha Ha	21	2145	Company FLK
Custody Seals Intact: Custody Seal No.: 20	(NFAS)					Coo	ler Tem	perature	e(s) °C a	and Ot	her Rem	narks:	(2.0				
																		Ver: 06/08/2021

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:

.....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

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.

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

1.8

1.8

1.8

1.8

1.8

1.8

1.8

1.8

1.8

1.8

1.8

1.8

1.8

1.8

1.8

1.8

0.45 ng/L

0.45 ng/L

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

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

Result Qualifier

5.1

3.5

7.9

1.5 J

0.46 J ND

ND

2.6

2.4

5.4

ND

ND

ND

ND

ND

ND

ND

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

Analyte

NEtFOSAA

NMeFOSAA

HFPODA

9CI-PF3ONS

11CI-PF3OUdS

Perfluorohexanoic acid

Perfluoroheptanoic acid

Perfluorooctanoic acid

Perfluorononanoic acid Perfluorodecanoic acid

Perfluorotridecanoic acid

Perfluoroundecanoic acid

Perfluorododecanoic acid

Perfluorotetradecanoic acid

Perfluorobutanesulfonic acid

Perfluorohexanesulfonic acid

Perfluorooctanesulfonic acid

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

MDL	Unit	D	Analyzed	Dil Fac	Analyst	
0.45	ng/L		11/15/21 21:38	1	VK3G	2
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	1
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	1
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	
0.45	ng/L		11/15/21 21:38	1	VK3G	

11/15/21 21:38

11/15/21 21:38

DONA ND 1.8 0.45 ng/L 11/15/21 21:38 1 VK3G Surrogate Qualifier Limits Analyzed Dil Fac Analyst %Recovery 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 1 VK3G 70 - 130 11/15/21 21:38

Client Sample ID: Field Blank

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

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

1 VK3G

1 VK3G

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 11/15/21 21:50 13C2 PFHxA 72 70 - 130 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	5
ML	Minimum Level (Dioxin)	J
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	8
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	CA SRL 524M-TCP	x	(ruter)	x	Hexavalent Chromium	EPA 218.7	x	(futer)	x
PPT) 1,4-Dioxane	EPA 522	x		x	Hexavalent Chromium	SM 3500-Cr B	^	x	~
2,3,7,8-TCDD	Modified EPA 1613B	x		x	Hormones	EPA 539	x	X	x
Acrylamide	In House Method (2440)	x		x	Hydroxide as OH Calc.	SM 2330B	x		x
Algal Toxins/Microcystin	In House Method (3570)				Kjeldahl Nitrogen	EPA 351.2		х	
Alkalinity	SM 2320B	х	х	x	Legionella	Legiolert	х		х
Ammonia	EPA 350.1		х	x	Mercury	EPA 200.8	х		x
Ammonia	SM 4500-NH3 H		х	x	Metals	EPA 200.7 / 200.8	х	х	x
Anions and DBPs by IC	EPA 300.0	x	х	x	Microcystin LR	ELISA (2360)	X		x
Anions and DBPs by IC Asbestos	EPA 300.1 EPA 100.2	x x	x	x	Microcystin, Total NDMA	EPA 546 EEA/Agilent 521.1	x		x
BOD / CBOD	SM 5210B		x	x	Nitrate/Nitrite Nitrogen	In house method (2425) EPA 353.2	x	x	x
Bromate	In House Method (2447)	x	^	x	OCL, Pesticides/PCB	EPA 505	x	~	x
Carbamates	EPA 531.2	х	1	х	Ortho Phosphate	EPA 365.1	х	х	х
Carbonate as CO3	SM 2330B	х	х	х	Ortho Phosphorous	SM 4500P E	х		х
Carbonyls	EPA 556	x		x	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	x		x	Perfluorinated Alkyl Acids	EPA 537	X		x
Chlorinated Acids Chlorine Dioxide	EPA 555 SM 4500-CLO2 D	x		x	Perfluorinated Polutant pH	In house Method (2434) EPA 150.1	x		x
Chlorine -Total/Free/	Palin Test SM 4500-Cl G	x	x	x	pH	SM 4500-H+B	x	x	x
Combined Residual	EPA 120.1	^	x	^	Phenylurea Pesticides/	In House Method, based on EPA	x	^	x
Conductivity Conductivity	SM 2510B	x	x	x	Herbicides Pseudomonas	532 (2448) IDEXX Pseudalert (2461)	x		x
Corrosivity (Langelier Index)	SM 2330B	x		x	Radium-226	GA Institute of Tech	x		x
Cyanide, Amenable	SM 4500-CN G	x	x		Radium-228	GA Institute of Tech	x		x
Cyanide, Free	SM 4500CN F	x	x	x	Radon-222	SM 7500RN	X		x
Cyanide, Total	EPA 335.4	x	х	х	Residue, Filterable	SM 2540C	х	х	х
Cyanogen Chloride (screen)	In House Method (2470)	x		x	Residue, Non-filterable	SM 2540D		x	
Diquat and Paraquat	EPA 549.2	х		x	Residue, Total	SM 2540B		х	х
DBP/HAA	SM 6251B	х		х	Residue, Volatile	EPA 160.4		х	
Dissolved Oxygen	SM 4500-O G		х	x	Semi-VOC	EPA 525.2	х		х
DOC	SM 5310C	x		x	Silica	SM 4500-Si D	х	х	
E. Coli	(MTF/EC+MUG)	x		x	Silica	SM 4500-SiO2 C	х	х	
E. Coli	CFR 141.21(f)(6)(i)	х		х	Sulfide	SM 4500-S ⁼ D		х	
E. Coli	SM 9223		x		Sulfite	SM 4500-SO3B	x	x	x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x	Surfactants	SM 5540C	х	х	x
E. Coli (Enumeration)	SM 9223B	x		x	Taste and Odor Analytes	SM 6040E	х		x
EDB/DCBP	EPA 504.1	x			Total Coliform (P/A) Total Coliform	SM 9221 A, B	x		x
EDB/DBCP and DBP EDTA and NTA	EPA 551.1 In House Method (2454)	x		x	(Enumeration) Total Coliform / E. coli	SM 9221 A, B, C Colisure SM 9223	x		x
EDIA and NIA Endothall	EPA 548.1	x	-	x	Total Coliform / E. coli Total Coliform	SM 9221B	х	x	x
		^		^	Total Coliform with Chlorine	SM 9221B		x	
Endothall	In-house Method (2445)	x		х	Present Total Coliform / E.coli (P/A				
Enterococci Fecal Coliform	SM 9230B SM 9221 E (MTF/EC)	x x	Х		and Enumeration) TOC	SM 9223 SM 5310C	x	x	x
Fecal Coliform	SM 9221 E (MTF/EC) SM 9221C, E (MTF/EC)	^	x		TOX	SM 5310C SM 5320B	^	x	
Fecal Coliform	SM 9221C, E (MTF/EC)	x	^	×	Total Phenols	EPA 420.1		x	
(Enumeration) Fecal Coliform with	SM 9221E		x		Total Phenols	EPA 420.4	x	x	x
Chlorine Present							^		^
Fecal Streptococci	SM 9230B	x	×		Total Phosphorous Triazine Pesticides &	SM 4500 P E		х	
Fluoride	SM 4500-F C	×	x	×	Degradates	In House (3617)	x	~	x
Glyphosate Glyphosate + AMPA	EPA 547 In House Method (3618)	x	-	x x	Turbidity Turbidity	EPA 180.1 SM 2130B	x	x	x
Glyphosate + AMPA Gross Alpha/Beta	EPA 900.0	x	x	x	Uranium by ICP/MS	EPA 200.8	x	х	x
*									
Gross Alpha Coprecipitation	SM 7110 C	x x	x x	x x	UV 254 VOC	SM 5910B EPA 524.2	x		x
Hardness	SM 7240D					LI A J24.2	~		^
Hardness Heterotrophic Bacteria	SM 2340B In House Method (2439)		^				v		Y
Hardness Heterotrophic Bacteria Heterotrophic Bacteria	SM 2340B In House Method (2439) SM 9215 B	x	~	x	VOC Yeast and Mold	In House Method (2411) SM 9610	x x		x x

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		
	Eaton Analytical	Acknowledgement of Samples Received
Addr:	Eurofins QC, LLC 213 Witmer Road	Client ID: EUROFINS-QCLLC Folder #: 970748
	Horsham, PA 19044	Project: SUBCONTRACT Sample Group: 1,4-Dioxane
	: Nicki Smith : 215.355.3900x3360	Project Manager: Vanessa Berry Phone: 503-310-3905
		PO #: 630-24208-1
tests list		I from you on November 18, 2021 at 15:47 . They have been scheduled for the s information is incorrect, please contact your service representative. Thank you LC.
ample #	Sample ID	Sample Date
02111190051	POE Lab Sink	11/11/2021 0930
	Variable ID: 630-24208-1	

@Dioxane_70ppt -- @DIOXANE_0.07PPB

<section-header></section-header>

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(6261,562), 505, 5PME, @CH, 532LCMS, 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 = lanl+) (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 COMPANY/TITLE 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
POE La	b Sink (20211)	<u>1190051)</u> Le ID: 630	1-24208-1			Sample	d on 11/11/2	021 093	D	
			DIOXANE	_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

•	i		
•		4	
		Ş	

RPD%

2.1

@DIOXANE_0.07F Prep Batch:	PB by EPA 522 1369484 Analytical Batch: 1369779			An	alysis D	ate: 11/24/2	021	
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:			scorbic/HC		Bottle Type	HCL Vials				
GILBERT FRANCOIS VILLAGE OF NYACK WATER TREATMENT PLANT 230 ROUTE 59	Comments/Schedule Details:		# N	IA2S2O3 IaOH/Zn aci INO3 pH							
NYACK, NY 10960	845-597-5424		# N	2SO4 pH IaOH pH	1						
(845)358-0641 (845)358-3734 GILERT FRANCOIS-PLANT (845)597-5424 GILERT FRANCOIS-CELL			# H # N	Inpreserved ICL IH4CL IEOH							5
Route: 4 SARA CAMACHO	PWSID:	P s e e C C		la2SO3/HCl I Water	L		Field	Tests By: (C	SPIER	/Time:	
		s e e C C u H o o d P I I o C i i	Colle		Collection Time (Military)	e Total # Bottles	Free Cl2 mg/L		BR2 YES/NO	Total CL2 mg/L	7
7273817-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, DIOXANE, PFC			16	11/21	9:30	3					8
FIELD WORK CODE:											
7273817-2 FIELD BLANK PFC						1					
			11	111/21	9:27						
FIELD WORK CODE:											
						 					_
										Loc: 630 2420	, B
					630	0-24208 C	hain of Custo	dy		-	
Sample Collected By Circle One	Initials	Required TAT: Sta	ndard/Rush	_# Days]			
Centin Padden client (Ed	CGP	1			1			Comments (reporting, met	hods, etc)	1
Relinquished By			Tem	04	1	Site	Initials				

Caitli Paddu	16:45	11/11/21	ER90/ER229	16:45	11/11/21	2.8°t	Y	ER	CBP	
M:07:00-17:00 T:07:00-17:00 W:07:00-17:00 Th: M: - T: - W: - Th: - F: M:		F: 07:00-17:00 - Sn: -	St: - Sn: - Printed: 1	0/17/21 GP	S X:	Y:				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 Contact. Phone. E-Mail: State of Ongin:. Page: Shipping/Receiving Prove Page 1 of 1 Company: Eurofins Lancaster Laboratories Environm Accreditations Required (See note): Neu York Page 1 of 1 Address: Due Date Requested: 11/25/2021 Analysis Requested Preservation Codes: City: 11/25/2021 Analysis Requested - A-HCL M - Hexane Environ TAT Requested (days): State of Due Date Requested: - A-HCL M - Hexane State, 7p: PA Prove - Accreditations Requested - A-HCL M - Hexane State, 7p: PA Prove - Analysis Requested - A-HCL M - Hexane Phone Prove - Areas - A-HCL M - Hexane Prove - Areas - Areas - A-HCL - A-HCL Phone - Areas - Areas - A-HCL - A-HCL Prove - Areas - Areas - A-HCL - A-HCL - A-HCL Prove - Areas - Areas - Areas - A-HCL - Areas Prove - Areas - Areas - Areas - Areas - Areas Prove - Areas - Areas - Areas <td< th=""><th>Client Information (Sub Contract Lab)</th><th>Sampler:</th><th></th><th></th><th>Lab PM Doug</th><th></th><th>/ Eria</th><th>0</th><th></th><th></th><th></th><th></th><th>Can</th><th>ier Tra</th><th>cking (</th><th>No(s):</th><th></th><th></th><th>COC No 630-6263.1</th><th></th></td<>	Client Information (Sub Contract Lab)	Sampler:			Lab PM Doug		/ Eria	0					Can	ier Tra	cking (No(s):			COC No 630-6263.1	
Comparison Constraint Constraint <thconstraint< th=""> Constraint Constrai</thconstraint<>	Client Contact:	Phone:			E-Mail:											_		_	Page:	
Eucline Landard Laboratione Environm NELAP - New York Biol 2420-1 Analysis Requested Analysis Requested Analysis Requested Analysis Requested Linescator The Meynetic (stars): Analysis Requested Analysis Requested Analysis Requested Stars Age Note: Note: Analysis Requested Analysis Requested Stars Age Note: Note: Note: Note: Note: Stars Age Note: Note: Note: Note: Note: Note: Stars Age Note:												_	Ne	w Yor	k					
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Gran Telesconte Telesconte <td>Address: 2425 New Holland Pike</td> <td></td> <td>aq:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>An</td> <td>alvsi</td> <td>s Re</td> <td>ane</td> <td>sted</td> <td></td> <td></td> <td></td> <td></td> <td>Preservation Codes:</td> <td></td>	Address: 2425 New Holland Pike		aq:							An	alvsi	s Re	ane	sted					Preservation Codes:	
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Note: Since laboratory acreditation are subject to change. Eurofine OC, LLC - Honham, PA places the ownership of method, analyte & accreditation compliance upon out subcontrad laboratory or other instances will be provided. Any changes to accreditation status should be brought to Eurofine OC, LLC - Honham, PA places the ownership of method, analyte & accreditation compliance upon out subcontrad laboratory or other instances will be provided. Any changes to accreditation status about the table of Custory attention will be provided. Any changes to accreditation status about the table of Custory attention. This sample shipment is forwarde under chain-of-custory. If the laboratory or other instances will be provided. Any changes to accreditation status about the table of Custory attention. This sample shipment is forwarde under chain-of-custory. If the laboratory or other instances will be provided. Any changes to accreditation status about the table of Custory attention. This sample shipment is forwarde under chain-of-custory. If the laboratory or other instances will be provided. Any changes to accreditation status about the table of Custory attention. The sample shipment is forwarde under chain-of-custory. If the laboratory or other instances will be provided. Any changes to accreditation status about the table of Custory attention. The sample shipment is forwarde under chain-of-custory. If the laboratory or other instances will be provided. Any changes to accreditation status about the table of Custory attention. The sample shipment is forwarde under chain-of-custory. If the laboratory is other instances will be provided. Any changes to accreditation status about the table of Custory attention. The sample shipment is forwarde under chain-of-custory is other instances will be provided. Any changes to accreditation are current to data result we begin the activity attention will be provided. Any changes to accreditation are current to data result we beape the activity attention will	Field Blank (630-24208-2)	11/11/21	09:27	Prinkin	g Wate			X											1	
currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analysed, the samples must be shipped back to the Eurofins QC, LLC – Horsham, PA attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins QC, LLC – Horsham, PA attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins QC, LLC – Horsham, PA. Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Unconfirmed Return To Client Disposal By Lab Archive ForMonths Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1 Special Instructions/QC Requirements: Method of Shipment: Relinquished by: Date/Time: Date/Time: Company Company Received by Date/Time: Company Relinquished by: Date/Time: Company Received by Date/Time: Company Company Relinquished by: Date/Time: Company Received by Date/Time: Company Company Empty Kit Relinquished by: Date/Time: Company Company Empty Kit Relinquished by: Date/Time: Company Company Empty Kit Relinquished by: Date/Time: Company			Lasterri			+		+				+-	+							
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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.



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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

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Lab 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

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

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	5
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	X
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

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Eurofins Philadelphia

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

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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

			/www.eu
Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	Х
Escherichia coli	SM 9221 B.1		
(Enumeration)	SM 9221 F	x	
Fecal Coliform (P/A and	SM 9221 C		
Enumeration)	(MTF/EC), SM 9221 E (MTF/EC)	x	х
Fecal Streptococci and			
Enterococci	SM 9230 B	x	х
Heterotrophic Bacteria	SM 9215 B	х	
Legionella	Legiolert®	х	
Pseudomonas aeruginosa	Idexx	х	
	Pseudalert	^	
Total Coliform (P/A and	SM 9221A, SM	x	x
Enumeration)	9221B, SM 9221 C	~	X
Total Coliform, Total			
Coliform with Chlorine	SM 9221 B	x	x
Present			
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert,	SM 9223	x	
Idexx Colilert 18, Colisure)	5101 9225	^	
Total Microcystins and	EPA 546	Х	
Nodularins			
Yeast and Mold	SM 9610	Х	
1,2,3-Trichloropropane	CA SRL 524M-		
(TCP) at 5 PPT	TCP	x	
1,4-Dioxane	EPA 522	x	
,	Modified EPA		
2,3,7,8-TCDD	1613 B	х	
Acrylamide	⁺ LCMS 2440)	х	
Algal Toxins/Microcystin	+ LCMS 3570	X	
Alkalinity	SM 2320B	X	х
	EPA 350.1,		
Ammonia	SM 4500-NH3		x
	Н		
Asbestos	EPA 100.2	х	х
Bicarbonate Alkalinity as	SM 2330 B		
HCO3		x	Х
BOD/CBOD	SM 5210 B		х
Bromate	* LCMS- 2447	х	
Carbonate as CO3	SM 2330 B	х	х
Carbonyls	EPA 556	х	х
Chemical Oxygen Demand	EPA 410.4,		х
Chemical Oxygen Demand	SM 5220D		^
Chlorinated Acids	EPA 515.4	Х	
	Palin Test		
Chlorine Dioxide	Chlordio X Plus,	х	
	SM 4500-CLO2		
	D		
Chlorine, Free, Combined,	SM 4500-CI G		
Total Residual,		x	
Chloramines	01404000		
Color	SM2120B	X	
Conductivity	EPA 120.1, SM 2510B	х	х
Corrosivity (Langelier	5101 25100		
Index), Carbonate as CO3,			
Hydroxide as OH	SM 2330 B	х	
Calculated			
	SM 4500-CN		
Cyanide (Amenable)	G	x	X
Cyanide (Free)	SM 4500CN F	х	x
Cyanide (Total)	EPA 335.4	х	х
Cyanogen Chloride	⁺ 335 Mod		
(Screen)	(WC-24467)	x	
Diquat and Paraquat	EPA 549.2	х	
DBP and HAA	SM 6251 B	x	
Dissolved Organic Carbon	SM 5310 C	x	
Dissolved Oxygen	SM 4500-O G		Х
EDB/DCBP/TCP	EPA 504.1	х	
EDB/DBCP and			
Disinfection Byproducts	EPA 551.1	Х	
EDTA and NTA	⁺ WC-2454	х	
Endothall	EPA 548.1,	х	
	+(LCMS-2445)	^	
Fluoride	SM 4500F C	х	Х
Glyphosate	EPA 547	х	
Glyphosate and AMPA	⁺ LCMS-3618	х	
Gross Alpha and Gross Beta	EPA 900.0	х	х

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	x	х
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)	х	
Nitrate/Nitrite Nitrogen	EPA 353.2	х	х
Odor	SM2150B	X	~
Organohalide Pesticides and PCB	EPA 505	x	
Ortho Phosphate	SM 4500P E	х	
Oxyhalides Disinfection			
Byproducts	EPA 317.0	x	
Perchlorate	EPA 331.0	x	
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	х
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	x	х
Residue (Non-Filterable)	SM 2540D		х
Residue (Total)	SM 2540B		X
Residue (Volatile)	EPA 160.4		X
Semi-Volatile Compounds	EPA 525.2	х	
	SM 4500-SiO2		
Silica	C	x	х
Sulfide	SM 4500-S D		х
Sulfite	SM 4500-SO3 B	х	х
Surfactants	SM 5540C	х	х
Taste and Odor	SM 6040 E	х	
Total Organic Carbon	SM 5310 C	х	х
Total Phenols	EPA 420.1		Х
Total Phenols	EPA 420.4	х	х
Triazine Pesticides and their Degradates	+LCMS-3617	х	
Turbidity	EPA 180.1	x	х
Uranium by ICP/MS	EPA 200.8	x	
UV 254 Organic Constituents	SM 5910B	х	
VOCs	EPA 524.2	x	
VOCs	⁺ (GCMS 2412) by EPA 524.2	x	
	modified		

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

Page 12 of 22

Acknowledgem C, LLC Road PA 19044	nent of Samples Received Client ID: EUROFINS-QCLLC Folder #: 987571 Project: SUBCONTRACT Sample Group: 1,4-Dioxane Project Manager: Vanessa Berry Phone: 503-310-3905 PO #: 630-27428-1	2 3 4 5					
Road A 19044	Folder #: 987571 Project: SUBCONTRACT Sample Group: 1,4-Dioxane Project Manager: Vanessa Berry Phone: 503-310-3905	3 4 5					
	Sample Group: 1,4-Dioxane Project Manager: Vanessa Berry Phone: 503-310-3905	4 5 6					
)0x3360	Phone: 503-310-3905	5					
	PO #: 630-27428-1						
The following samples were received from you on February 15, 2022 at 1813 . They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.							
)	Sample Date	0					
Sink (630-27428-1)	02/14/2022 1359						
able ID: 630-27428-1							
70ppt							
		n Analytical, LLC. D Sample Date O Sink (630-27428-1) O2/14/2022 1359					

@Dioxane_70ppt -- @DIOXANE_0.07PPB

Page 1 of 1

	Chain of Cus
rofins Environment Testing Philadelphia-	Witmer Road



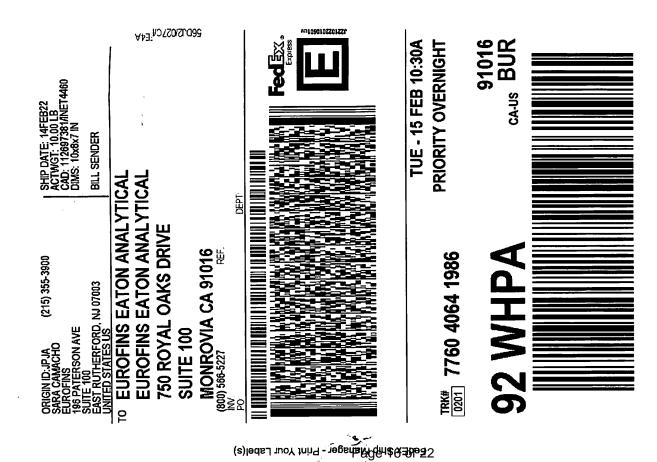
Eurofins Environment Testing Philadelphia-	Ť								at and the	
213 Witmer Road Horsham, PA 19044-0962	0	hain c	of Cust	Chain of Custody Record	ecord				822	Environment Testing
	Sampler:			Lab PM: Dourdh	Lab PM: Doucharty Erin		Carrier Tracking No(s):	Na(s):	COC No: 630-7019-1	
Client Information (Sub Contract Lab)	Dhono'			E-Mail	initia, mini		State of Origin:		Page:	
client contact Shipping/Receiving	Phone:			Erin.	Dougherty@eurofi	inset.com	New York		Page 1 of 1	
Company: Eurofins Eaton Analytical					Accreditations Required (See note): NELAP - New York	ed (See note): rk			Job #: 630-27428-1	
Address: 750 Royal Oaks Drive, Suite 100,	Due Date Requested: 2/28/2022		it.	200		Analysis	Analysis Requested		Preservation Codes:	odes: M - Hevene
	TAT Requested (days):	/s):		-					B - NaOH C - Zn Acetate D - Nitric Acid	
State, Zip: CA, 91016				1					E - NaHSO4 F - MeOH	
Phone: 626-386-1100(Tel)	:# Od			-					G - Amchlor H - Ascorbic Acid	
Email:	:# OM			1	(oN					
Project Name: PFC, Dioxane	Project #: 63003671			1	es ot					Z - other (specify)
ste: Village of Nyack Qtty PFC	SSOW#:			No.	r) asi			7	of col	
	Samolo Dato	Sample	Sample Type (C=comp,	Matrix (w=water, s=solid, o=waste/oll,	ield Filtered N/SM more A93 - 523 - 692				Total Number So Co Co Ci De Ci	Special Instructions/Note:
		X		Preservation Code:	X					
POE, Lab Sink (630-27428-1)	2/14/22	13:59 Eactorn		Drinking Wate	×				-	
		Lasion		1						
j				1×						
				100						
				rg						
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									at is forwarded under	their of cristody. If the
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratory accreditations. In the state of Origin listed above for analysis/rest/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation scientificance upon out subcontract laboratory or other instructions will be provided. Any changes to accreditation scientificance upon accreditation in the State of Origin listed above for analysis/rest/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Philadelphia, LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Philadelphia, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Philadelphia, LLC.	ent Testing Philadelphia, above for analysis/tests/ lphia, LLC attention imm	LLC places th matrix being a ediately. If all	ne ownership o nalyzed, the sa requested acc	f method, analy imples must be reditations are	te & accreditation com shipped back to the El current to date, return t	ipliance upon out sui urofins Environment the signed Chain of	ocontract laboratories. Testing Philadelphia, Ll Custody attesting to said	LC laboratory or othe C laboratory or othe complicance to Eu	nt is torwarded under of instructions will be profins Environment Te	rrain-or-custory, in the irovided. Any changes to sting Philadelphia, LLC.
Possible Hazard Identification				te sh	Sample Dispo	osal (A fee ma)	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	amples are reta	ined longer than	1 month)
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable	ble Rank:		0	Special Instruct	Precial Instructions/QC Requirements:	Disposal By Lab rements:		Archive For	Montas
Empty Kit Relinquished by:		Date:	×	-	Time:	1	Method of	Method of Shipment:		
Relinquished by	Date/Time:/	2	Se .	Company	Received by:	AA	G.REITNER	Date/Time: 02-15-2022	-2022	Company
Relinquished by:	Date/Time:		2	Company	Received by			Date/Time:		Company
Relinquished by:	Date/Time:			Company	Received by:			Date/Time:		Company
Custody Seals Intact: Custody Seal No.: A Yes A No					Cooler Temp	Cooler Temperature(s) ^o C and Other Remarks:	ther Remarks:	5.9		
				-						Ver: 06/08/2021

		· ·	• . •			Page of
NAL CHAIN OF CUSTODY RECORD SAMPLE TEMP RECEIVED: Note: If samples are out of temperature range, let the ASMs know, ASMs will determine whether to proceed with analysis or not. SAMPLES REC'D DAY OF COLLECTION? Yes / No Corr. Factor 0.5 °C) (Filnal = 5.5 °C) (Corr. Factor 0.5 Frozen 7 Partially Frozen 7 Thawed 1/2 NA	/ DHL / Area Fast / Top Line / Other:	 Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on lce the same day as sample collection, within a normality of the same day as sample collection) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection) Microbiology, Surface water: < 10°C (if received after 2 hours of sample collection) Microbiology, Surface water: < 10°C (if received after 2 hours of sample collection) Microbiology Microbiology A = (observation Contration Contrati	C, not frozen (if received after 24 hrs of sample collection) imber:pH strip type: 0 - 14 orExpiration DateResults:	A and Radon No Samples with Headspace: Samples with Headspace (see below): Card Radon Internal COFC for additional bottles) Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Exempt from headspace concerns: Methods 515.4, HAX[9251,522], 505, 5PME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi vials, International elants: Samp ID Bottle # Nonel<6 Semm Tast Samp ID Bottle # Nonel<6 Semm Tast Samp ID Bottle # Nonel<6 Semm Tast Samp ID Bottle # Min Tast Samp ID Bottle # Min Tast Samp ID Bottle # Min Tast Semp ID Bottle # Min Tast Samp	COMPANYITTLE DATE TIME Eurofins Eaton Analytical 02.15.2022 18.13 COMPANYITTLE DATE TIME COMPANYITTLE DATE TIME	
INTERN Ition= 5.8 °c) (0	K-In (FedEx)/ UPS / DHL / Area Fast / Top Lin JELAP) (if received after 24 hrs of sample collection)	C, not frozen (can be ≥10°C If received on lce the 0°C (if received after 2 hours of sample collection) sy 1. <u>1. (Observation</u> <u>co) (confrestor</u> <u>c) (Finit </u> (the 3. (Observation <u>c) (confrestor</u> <u>c) (Finit </u>		No Samples with Headspace: ace Documentation (use additional VOC and ns: Methods 515.4, HAA(6221,625, 505, 5PMF, @CH, 532L Samp ID Bottle # None/<5 >6mm Test mm	adspace (I.e. potential sampling errors): PRINT NAME PELITURE PRINT NAME	а 8 2
 	METHOD OF SHIPMENT: Plck-Up / Walk-In FedEx / UP Compliance Acceptance Criteria: 1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (if received	 Microbiology, Distribution: <10°C, not frozen (can big) Microbiology, Surface Water: <10°C (if received after angle for both chemistry and Microbiology is angles and lemperature for and confirm, then measure the temperature of each quadrant and record each temperature of the 3 = (observation quadrants) 	4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 ^e 5) pH Check. Manufacturer: Lot Nu 6) Chlorine check. Manufacturer: Sansafe. Lot No.:	7) VOA and Radon No Sa Headspace: Headspace D Exempt from headspace conterns: Me samp ID Bottle # None/c8 >6mm Tast	Note Sample IDs which have dissimilar headspace (I.e. potenti siourrune for the sion of th	

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 face. Service extended loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other timer lises in our ServiceGuide. Written claims must be file a within strict time limits, see current feedEx Service Guide. Service Guide. Weither direct, incidental, consequential, or special is limited to the prover from feeder of the prover from feeder and the prover from feeder actual documented loss.Maximum for items of extraordinary tarte time limits, see current feedEx Service Guide. Written claims within strict time limits, see current feedEx Service Guide. Written claims of extraordinary time its and the extraordinary tarte time its and the strict time limits, see current feedEx Service Guide.



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.



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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 Variab	7428-1)(2		<u>52)</u>			Sample	d on 02/14/20	022 135	9
			DIOXANE	_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_0.07F						Analusia D			
Prep Batch:	1387505 Analytical Batch: 1387686					Analysis Da	ate: 02/18/	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 set 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 1 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	Track	ng No(s):		COC No: 630-7018	5.1		
Client Contact:	Phone:			E-Mail:									of Origi	1:			Page:			
Shipping/Receiving				Erin Do							1	Vew	York				Page 1 of Job #:	i1		
Company: Eurofins Lancaster Laboratories Env, LLC							ew Yor	ed (See r rk	note)								630-2742	28-1		
Address:	Due Date Requeste	ed:					_				_			_			Preservat		es:	
2425 New Holland Pike, ,	2/28/2022					_		<u> </u>	naly	sis	Requ	lest	ed			_	A - HCL		M - Hexane	
City: Lancaster	TAT Requested (da	iys):		1												1	B - NaOH C - Zn Ace	tata	N - None O - AsNaO2	
State, Zip	_					E I											D - Nitric A	cid	P - Na2O4S	
PA, 17601						List											E - NaHSO F - MeOH	4	Q - Na2SO3 R - Na2S2O3	
Phone:	PO #:					537.1 List of 18											G - Amchio		S - H2SO4	
717-656-2300(Tel) Email:	WO #:					A 5.											H - Ascorbi	c Acid	T - TSP Dode U - Acetone	cahydrate
Eman.	VVO #.			5	(oN	VEP				1							J - DI Wate	ŧΓ	V - MCAA	
Project Name:	Project #:				5	D d				1						i i	K - EDTA L - EDA		W - pH 4-5 Z - other (spe	cify)
PFC, Dioxane	63003671				, s	Pre										aninana	Other:			
site: Village of Nyack Qtly PFC	SSOW#:			Ĩ		DW										290				
Village of Nyack dity PT C				2	MS/MSD (Yes or	7.1														
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accreditation status should be brought to Eurofins Environment Testing Phila	delphia, LLC attention imr	mediately. If a	Il requested accreditation	ons are cu	rrent	to date	, return l	the signe	ed Cha	in of C	ustody	attest	ting to s	aid con	plicance	a to Euro	ofins Environm	ent Testir	ng Philadelphia	LLC.
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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

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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.

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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

• 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.

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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 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

Method: 522 - 1,4 Dioxane ((GC/MS SIM)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst	
1,4-Dioxane	ND		0.070	0.032	ug/L		06/28/22 20:05	1	TD	
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst	
1,4-Dioxane-d8 (Surr)	87		70 - 130				06/28/22 20:05	1	TD	_

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				5
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
Naska	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
ławaii	State	IN035	06-30-22
daho (DW)	State	IN00035	12-31-22
_ Dept. of Public Health (Micro)	State	17767	06-30-22
llinois	NELAP	200001	09-30-22
ndiana	State	C-71-01	12-31-22
ndiana (Micro)	State	M-76-07	12-31-22
owa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-22
Kentucky (DW)	State	KY90056	12-31-22
.ouisiana (DW)	State	LA180008	12-31-22
<i>Jaine</i>	State	IN00035	05-01-23
<i>A</i> aryland	State	209	03-31-23
/assachusetts	State	M-IN035	06-30-22
/I - RadChem Recognition	State	9926	06-30-22
<i>l</i> ichigan	State	9926	03-22-22 *
<i>A</i> innesota	NELAP	1989807	12-31-22
	State	IN00035	06-30-22
∕lississippi ∕lissouri	State	880	09-30-24
/ontana (DW)	State	CERT0026	01-01-23
Nebraska	State	NE-OS-05-04	06-30-22
levada	State	IN000352021-1	07-31-22
lew Hampshire	NELAP	2124	11-05-22
New Jersey	NELAP	IN598	06-30-22
New Mexico	State	IN00035	06-30-22
lew York	NELAP	11398	04-01-23
North Carolina (DW)	State	18700	07-31-22
lorth Dakota	State	R-035	06-30-22
Dhio	State	87775	06-30-22
Oklahoma	NELAP	D9508	08-31-22
Dregon	NELAP	4156	09-16-22
Pennsylvania	NELAP	68-00466	04-30-23
uerto Rico	State	IN00035	04-01-23
Rhode Island	State	LAO00343	12-30-22
outh Carolina	State	95005001	06-30-22
South Dakota (DW)	State	IN00035	12-31-22
Tennessee	State	TN02973	06-30-22
Texas	NELAP	T104704187-20-4	12-31-22
exas	TCEQ Water Supply	TX207	06-30-22
JSEPA 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
JSEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Jtah	NELAP	IN000352021-14	07-31-22
/ermont	State	VT-8775	11-15-22
∕irginia	NELAP	460275	03-14-23
Washington	State	C837	01-01-23
Vest Virginia (DW)	State	9927 C	12-31-22
Wisconsin	State	999766900	08-31-22
Wisconsin (Micro)	State	10121	12-31-22
Nyoming	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) D	Y					Lab L	LIMS No:	MATRIX CODES
	America	Bill to/Repor	rt to (if differ	ent)										LABI	USE ONLY:	DW: DRINKING WATER
213 Witmer Road	Phone: 215-355-3900													#	_ Ascorbic/HCL Vials # HCl Vials	GW: GROUND WATER
Horsham, PA 19044		Sampling Si	te Address	(if diffe	rent) Include	State								#	_ Na ₂ S ₂ O ₃	WW: WASTEWATER
Client/Acct. No. VILLAG	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	(W09890)	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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Chain of Custody Record



Eurotins Environment Testing Philadelphia,	nia,						eurofins	
Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567		Chain c	Chain of Custody Record	dy Re				Environment Testing America
Client Information (Sub Contract Lab)	Sampler:			Lab PM Dough	Lab PM: Dougherty, Erin	Carrier Tracking No(s):	COC No: 630-7963.1	
	Phone:			E-Mail: Erin.Do	E-Mail: Erin.Dougherty@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1	
Company: Eurofins Eaton Analytical				ZÀ	Accreditations Required (See note): NELAP - New York		Job # 630-36643-1	
Address: 110 S Hill Street,	Due Date Requested: 7/13/2022	ed:		-	Analysis	Requested	Preservation Codes:	des: M - Hexane
City: South Bend	TAT Requested (days):	ays):		_			A - HCL B - NaOH C - Zn Acetate	N - None O - AsNaO2
State. Zip: IN, 46617				-			D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3 R - Na2S2O3
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #						G = Amchlor	S - H2SO4 T - TSP Dodecahydrate
Email:	WO #			or No	lo) ane		I - Ice J - DI Water	U - Acetone V - MCAA
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Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method: analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Philadelphia, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Philadelphia, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Philadelphia, LLC.	ment Testing Philadelphia d above for analysis/tests delphia, LLC attention imr	n, LLC places the /matrix being and nediately. If all n	ownership of met alyzed, the sample equested accredit	thod, analyte & s must be shi ations are curr	, accreditation compliance upon out subcon pped back to the Eurofins Environment Tes ent to date, return the signed Chain of Cust	rract laboratories. This sample shipmei ing Philadelphia, LLC laboratory or othe ody attesting to said complicance to Eur	nt is forwarded under ch er instructions will be pro rofins Environment Test	ain-of-custody. If the wided. Any changes to ng Philadelphia. LLC.
Possible Hazard Identification Unconfirmed				-	Sample Disposal (A fee may be	may be assessed if samples are retained longer than 1 month) Disposal By Lab Archive For Mon	tained longer than Archive For	1 month) Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 1	able Rank: 1			Special Instructions/QC Requirements			
Empty Kit Relinquished by:		Date:		Т	Time:	Method of Shipment:		
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elinquished by	Date/Time:		Company	pany	Received by:	Date/Time:	22 1330	Company
A Yes A No					Cooler Temperature(s) °C and Other Remarks:	Remarks:	15 2.4	

Ver: 06/08/2021

🔅 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

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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

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

05499

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• 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

3 4 5 6
4 5 6
5 6

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 F
_	1.8	0 45	na/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									
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 Sample ID: 630-34085
Matrix: Drinking Wa

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

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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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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

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11111111111111111111111111111111111111						720/22	1254					
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7289063-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, DIOXANE, PFC	I					5/20/22	1252	3				
Route: 4 SARA CAMACHO	<i>pusce</i>	PWSID:	P s e u d	e CC Hoo PII	# #	_ Na2SO3/HC _ DI Water Collection Date	L Collection Tim (Military)	e Total # Bottles	Field Free Cl2 mg/L	Tests By:	BR2 YES/NO	_/Time: Total CL2 mg/L
NYACK, NY 10960 (845)358-0641 (845)358-3734 GILERT FRANCOIS-PL (845)597-5424 GILERT FRANCOIS-CE	845-597-54 ANT T1475	is incest up Date PWSID:	NYA	ere,	# # # #	NaOH pH Unpreserved HCL NH4CL MEOH	·					
GILBERT FRANCOIS VILLAGE OF NYACK WATER TREATME 230 ROUTE 59	ENT PLANT CALL GILB SAMPLING	1 Stop Date Schedule Details: ERT TO SCHEDULE : PLANT 845-358-37	PRIOR TO	L	# # #	NA2S2O3 NaOH/Zn ac HNO3 pH H2SO4 pH	+					

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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

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	S / Auedooo	Company	Company	Company			Months	1 month	ter chain-of-custody. If the be provided. Any changes to Testing Philadelphia, LLC.						Special Instructions/Note:			Y - Trizma Z - other (specify)	V - MCAA W - pH 4-5		Q - Na2SO3 R - Na2S2O3	N - NONE O - ASNAO2 P - Na204S	Codes: M - Hexane				1S Environment Testing America

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