

Nyack Water Department

2020 QUARTER 2 SAMPLING REPORT



ANALYTICAL REPORT

Lab Number:	L2009619
Client:	Envirotest Laboratories Inc. 315 Fullerton Avenue Newburgh, NY 12550
ATTN:	Debra Bayer
Phone:	(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 (LAC00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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Project Name: Not Specified
Project Number: 42001382

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

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

Project Name: Not Specified
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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.

Authorized Signature:



Alycia Mogayzel

Title: Technical Director/Representative

Date: 03/16/20

ORGANICS

SEMIVOLATILES

Project Name: Not Specified
Project Number: 42001382

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

SAMPLE RESULTS

Lab ID: L2009619-01
Client ID: INTAKE (420-168400-1)
Sample Location: VILLAGE OF NYACK WATER DEPT.

Date Collected: 03/02/20 10:00
Date Received: 03/04/20
Field Prep: Not Specified

Sample Depth:
Matrix: Dw
Analytical Method: 122,537
Analytical Date: 03/11/20 23:37
Analyst: RS

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

Parameter	Result	Qualifier	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	Acceptance Criteria
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-octanesulfonamidoacetic Acid (d5-NEIFOSAA)	93		70-130



Project Name: Not Specified
Project Number: 42001382

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

SAMPLE RESULTS

Lab ID: L2009619-02
Client ID: INTAKE FIELD BLANK (420-168400-2)
Sample Location: VILLAGE OF NYACK WATER DEPT.

Date Collected: 03/02/20 10:00
Date Received: 03/04/20
Field Prep: Not Specified

Sample Depth:
Matrix: Dw
Analytical Method: 122,537
Analytical Date: 03/12/20 00:11
Analyst: RS

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab						
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.80	--	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.80	--	1
PFOA/PFOS, Total	ND		ng/l	1.80	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	104		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	102		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74		70-130



Project Name: Not Specified

Lab Number: L2009619

Project Number: 42001382

Report Date: 03/16/20

SAMPLE RESULTS

Lab ID: L2009619-03

Date Collected: 03/02/20 10:00

Client ID: TREATMENT PLANT (420-168400-3)

Date Received: 03/04/20

Sample Location: VILLAGE OF NYACK WATER DEPT.

Field Prep: Not Specified

Sample Depth:

Matrix: Dw

Extraction Method: EPA 537

Analytical Method: 122,537

Extraction Date: 03/06/20 07:15

Analytical Date: 03/12/20 00:28

Analyst: RS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab						
Perfluorooctanoic Acid (PFOA)	9.57		ng/l	1.78	--	1
Perfluorooctanesulfonic Acid (PFOS)	5.39		ng/l	1.78	--	1
PFOA/PFOS, Total	15.0		ng/l	1.78	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	91		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	107		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		70-130

Project Name: Not Specified

Lab Number: L2009619

Project Number: 42001382

Report Date: 03/16/20

SAMPLE RESULTS

Lab ID: L2009619-04
 Client ID: TREATMENT PLANT FIELD BLANK (420-168400-4)
 Sample Location: VILLAGE OF NYACK WATER DEPT.

Date Collected: 03/02/20 10:00
 Date Received: 03/04/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 122,537
 Analytical Date: 03/12/20 01:02
 Analyst: RS

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab						
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.85	--	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.85	--	1
PFOA/PFOS, Total	ND		ng/l	1.85	--	1

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

Project Name: Not Specified
 Project Number: 42001382

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

**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 - Mansfield 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	--

Surrogate	%Recovery	Qualifier	Acceptance 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-NEIFOSAA)	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

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab Associated sample(s): 01-04 Batch: WG1347915-2 WG1347915-3								
Perfluorooctanoic Acid (PFOA)	94		100		70-130	6		30
Perfluorooctanesulfonic Acid (PFOS)	75		76		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance 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

Project Name: Not Specified

Lab Number: L2009619

Project Number: 42001382

Report Date: 03/16/20

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab (420-168400-1) Associated sample(s): 01-04 QC Batch ID: WG1347915-4 QC Sample: L2009619-01 Client ID: 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

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
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: Not Specified
Project Number: 42001382

Lab Duplicate Analysis
 Batch Quality Control

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

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1347915-5 QC Sample: L2009619-03 Client ID: TREATMENT PLANT (420-168400-3)						
Perfluorooctanoic Acid (PFOA)	9.57	9.26	ng/l	3		30
Perfluorooctanesulfonic Acid (PFOS)	5.39	5.04	ng/l	7		30
PFOA/PFOS, Total	15.0	14.3	ng/l	5		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	91		93		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	107		109		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		87		70-130

Project Name: Not Specified
Project 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**
A Absent

Container Information

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

*Values in parentheses indicate holding time in days



Project Name: Not Specified
Project Number: 42001382

Serial_No:03162011:25
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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	PFTriDA	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	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1

Project Name: Not Specified
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GLOSSARY

Acronyms

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

Footnotes

Report Format: *Data Usability Report*



Project Name: Not Specified
Project Number: 42001382

Lab Number: L2009619
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- 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 Water-preserved 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 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 AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-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, 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.
- 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



Project Name: Not Specified

Lab Number: L2009619

Project Number: 42001382

Report Date: 03/16/20

Data Qualifiers

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.

Project Name: Not Specified
Project 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.



Alpha Analytical, Inc.
 Facility: Company-wide
 Department: Quality Assurance
 Title: Certificate/Approval Program Summary

ID No.:17873
 Revision 16
 Published Date: 2/17/2020 10:46:05 AM
 Page 1 of 1

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: 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, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
 EPA TO-12 Non-methane organics
 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, SM4500Cl-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.

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

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



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

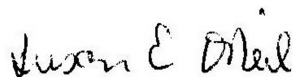
Case Narrative (continued)

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:



Susan O'Neil

Title: Technical Director/Representative

Date: 09/29/20

ORGANICS

SEMIVOLATILES

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

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

SAMPLE RESULTS

Lab ID: L2038494-01
 Client ID: RAW INTAKE (420-180665-1)
 Sample Location: VILLAGE OF NYACK WATER DEPT.

Date Collected: 09/14/20 08:30
 Date Received: 09/15/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 122,537
 Analytical Date: 09/24/20 19:35
 Analyst: SH

Extraction Method: EPA 537
 Extraction Date: 09/22/20 07:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - 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	Acceptance Criteria
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)	90		70-130

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

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

SAMPLE RESULTS

Lab ID: L2038494-02
 Client ID: RAW INTAKE TRIP BLANK (420-180665-2)
 Sample Location: VILLAGE OF NYACK WATER DEPT.

Date Collected: 09/14/20 08:30
 Date Received: 09/15/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 122,537
 Analytical Date: 09/24/20 19:44
 Analyst: SH

Extraction Method: EPA 537
 Extraction Date: 09/22/20 07:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab						
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.84	--	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.84	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	79		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	73		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		70-130

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

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

SAMPLE RESULTS

Lab ID: L2038494-03
 Client ID: LAB SINK (420-180665-3)
 Sample Location: VILLAGE OF NYACK WATER DEPT.

Date Collected: 09/14/20 08:30
 Date Received: 09/15/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 122,537
 Analytical Date: 09/24/20 19:53
 Analyst: SH

Extraction Method: EPA 537
 Extraction Date: 09/22/20 07:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab						
Perfluorooctanoic Acid (PFOA)	8.20		ng/l	1.79	--	1
Perfluorooctanesulfonic Acid (PFOS)	5.08		ng/l	1.79	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
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)	82		70-130

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

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

SAMPLE RESULTS

Lab ID: L2038494-04 R
 Client ID: LAB SINK TRIP BLANK (420-180665-4)
 Sample Location: VILLAGE OF NYACK WATER DEPT.

Date Collected: 09/14/20 08:30
 Date Received: 09/15/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 122,537
 Analytical Date: 09/25/20 08:33
 Analyst: SH

Extraction Method: EPA 537
 Extraction Date: 09/22/20 07:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab						
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.80	--	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.80	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	84		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	77		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84		70-130

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

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

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 122,537
 Analytical Date: 09/24/20 18:17
 Analyst: SH

Extraction Method: EPA 537
 Extraction Date: 09/22/20 07:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 537 - Mansfield 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	--

Surrogate	%Recovery	Qualifier	Acceptance 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 Name: VILLAGE OF NYACK WATER DEPT.

Project Number: 42001382

Lab Number: L2038494

Report Date: 09/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab Associated sample(s): 01-04 Batch: WG1412759-2 WG1412759-3								
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.**Lab Number:** L2038494**Project Number:** 42001382**Report Date:** 09/29/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2038494-01A	2 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)
L2038494-01B	2 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)
L2038494-02A	2 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)
L2038494-03A	2 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)
L2038494-03B	2 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)
L2038494-04A	2 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		5.1	Y	Absent		A2-537-PFOA/PFOS(14)

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

Serial_No:09292010:25
Lab Number: L2038494
Report Date: 09/29/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

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

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

GLOSSARY

Acronyms

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

Footnotes

Report Format: Data Usability Report



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

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

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

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved 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 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 AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-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, 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



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

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

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.

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, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

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 Fullerton Avenue
Newburgh, NY 12550
Phone (845) 562-0890 Fax (845) 562-0841

9/16/20

Chain of Custody Record

L2038494

Serial_No:09292010:25

EnviroTest Laboratories Inc.

Client Information (Sub Contract Lab)		Sampler: Bayer, Debra		Lab PM: Bayer, Debra		Carrier Tracking No(s):		COC No: 420-12261.1							
Client Contact: Shipping/Receiving		Phone:		E-Mail: dbayer@envirotestlaboratories.com				Page: Page 1 of 1							
Company: Alpha Analytical		Due Date Requested: 9/24/2020		Analysis Requested Field Filtered Sample (Yes or No) [] Perform MS/MSD (Yes or No) [] SUBCONTRACT: PFOA/PFOs 9/15/20 03		Total Number of Containers [] Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDTA Z - other (specify)		STL Job #: 420-180665-1							
Address: 8 Walkup Drive,		TAT Requested (days): <i>Stat TAT 9/15/20</i>													
City: Westborough		PO #:													
State, Zip: MA, 01581		WO #:													
Project Name: Village of Nyack Water Department		Project #: 42001382													
Site:		SSOW#:		Other: NYS des 9/15/2003 Special Instructions/Note:											
Sample Identification		Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, G=soil/sediment, A=air)		Preservation Code:	
Raw Intake (420-180665-1)						9/14/20		8:30		RW		Water		X	
Raw Intake Field Blank (420-180665-2)						9/14/20		8:30				Water		X	
Lab Sink (420-180665-3)						9/14/20		8:30		RW		Water		X	
Lab Sink Field Blank (420-180665-4)				9/14/20		8:30				Water		X			
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:							
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:							
Relinquished by: <i>Nature</i>		Date/Time: 9/15/20 15:45		Company: ETC		Received by: <i>WHL</i>		Date/Time: 9-15-20 10:45		Company: AAC					
Relinquished by: <i>[Signature]</i>		Date/Time: 9-15-20 12:00		Company: [Signature]		Received by: <i>[Signature]</i>		Date/Time: 9/15/20 20:45		Company: AAC					
Relinquished by: <i>[Signature]</i>		Date/Time: 9/15/20 23:55		Company: AAC		Received by: <i>[Signature]</i>		Date/Time: 9/15/20 23:55		Company: AAC					
Cooler Temperature(s) °C and Other Remarks:		Custody Seal No.:		T. Huddle 9/16/20 0400 T. Huddle 9/16/20 0570											

AAC - AAC 9/16/20

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

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



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

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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 10:50:59 AM

Case Narrative

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

Job ID: 630-8485-1

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

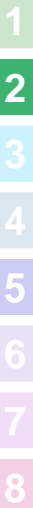
The samples were received on 10/13/2020 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.7°C

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

Job ID: 630-8485-1

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	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

Client Sample Results

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

Job ID: 630-8485-1

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

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

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

Lab Sample ID: 630-8485-2

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	13		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
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
Perfluorohexanesulfonic acid	4.6		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorodecanoic acid	0.48	J	1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
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	5.1		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorobutanesulfonic acid	3.2		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	92		70 - 130	10/16/20 13:38	1	VK3G
13C2 PFHxA	73		70 - 130	10/16/20 13:38	1	VK3G
13C3 HFPO-DA	67	S1-	70 - 130	10/16/20 13:38	1	VK3G
d5-NEtFOSAA	85	*3	70 - 130	10/16/20 13:38	1	VK3G

Eurofins QC, LLC – Horsham, PA

Action Limit Summary

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

Job ID: 630-8485-1

Client Sample ID: POE

Lab Sample ID: 630-8485-1

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.

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

Lab Sample ID: 630-8485-2

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.

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

Accreditation/Certification and Definitions Summary

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

Job ID: 630-8485-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20
Alaska	State	PA00009	06-30-21
Alaska (UST)	State	17-027	01-31-21
Arizona	State	AZ0780	03-12-21
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-21
Colorado	State	PA00009	06-30-21
Connecticut	State	PH-0746	12-26-20
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	10-31-20
Delaware (DW)	State	N/A	01-25-21
Florida	NELAP	E87997	07-01-21
Hawaii	State	N/A	01-31-21
Illinois	NELAP	004559	01-14-21
Iowa	State	361	03-02-22
Kansas	NELAP	E-10151	10-31-20
Kentucky (DW)	State	KY90088	12-31-20
Kentucky (UST)	State	1.01	11-30-20
Kentucky (WW)	State	KY90088	12-23-20
Louisiana	NELAP	02055	06-30-21
Maine	State	2019012	03-12-21
Maryland	State	100	06-30-21
Massachusetts	State	M-PA009	06-30-21
Michigan	State	9930	01-31-21
Minnesota	NELAP	042-999-487	11-02-20
Missouri	State	450	01-31-22
Montana (DW)	State	0098	11-08-20
Montana (UST)	State	0098	01-01-22
Nebraska	State	NE-OS-32-17	01-31-20 *
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	11-17-20
New Jersey	NELAP	PA011	01-03-21
New York	NELAP	10670	11-05-20
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	10-27-20
North Dakota	State	R-205	01-31-21
Oklahoma	NELAP	R-205	02-01-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	05-08-21
Pennsylvania	NELAP	36-00037	11-02-20
Rhode Island	State	LAO00338	02-28-21
South Carolina	State	89002002	01-31-21
Tennessee	State	02838	01-28-21
Texas	NELAP	T104704194-20-38	08-31-21
Utah	NELAP	PA000092019-16	02-28-21
Vermont	State	VT - 36037	10-28-20
Virginia	NELAP	10561	06-14-21
Washington	State	C457	04-11-21
West Virginia (DW)	State	9906 C	12-31-20
West Virginia DEP	State	055	10-25-20
Wyoming	State	8TMS-L	01-07-21
Wyoming (UST)	A2LA	1.01	11-29-20

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



Accreditation/Certification and Definitions Summary

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

Job ID: 630-8485-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
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)
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.

Method Summary

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

Job ID: 630-8485-1

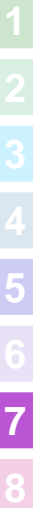
Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

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





QC

CHAIN OF CUSTODY

Page ___ of ___

MATRIX CODES

702 Electronic Drive Phone: 215-355-3900
Horsham, PA 19044 Fax: 215-392-0626

Client/Acct. No. W09890
Address 230 RT 59

City/State/Zip W. NYACK NY 10960
Phone/Fax 845 358 3734
Client Contact: Gilbert Francois

Bill to/Report to (if different)
Sampling Site Address (if different) Include State

P.O. No. PWSID #:
Quote #
e-mail:

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCL Vials # ___ HCl Vials
___ Na₂S₂O₃ _____
___ Na OH/Zn acetate pH _____
___ HNO₃ pH _____
___ H₂SO₄ pH _____
___ NaOH pH _____
___ Unpreserved
___ HCl # ___ NH₄Cl # ___ MeOH
___ DI Water

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT	Collection		G R A B	C O M P	Matrix Code	Number of Containers															
	Date	Military Time				Total	H 2 S O 4	H C l	V i a l s	H N O 3	N a O H	Z n A c	U N P R E	B A C T							
FIELD ID																					
<u>P.O.E</u>	<u>10/13/20</u>	<u>1137</u>	<u>X</u>																		

ANALYSIS REQUESTED

PFAS + field Blank

Field pH, Temp (°C),
DO, Cl₂, Cond. etc.



630-8485 Chain of Custody

Loc: 630
8485

SAMPLED BY: (Name/Company)
EQC
SARA CAMACHO

TAT: STANDARD (10 DAY)
or DUE DATE 10/13/20

Report Format: Standard NJ-RDD SRP-RDD
 Standard + QC Forms EDD

Field Parameters Analyzed By:

Initials

SC3/GAF

Date/Time:

Please call for pricing and availability for rush (<10 day) turnaround and for all but standard reporting format.

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME	DELIVERY: <input type="checkbox"/> EQC COURIER <input type="checkbox"/> CLIENT	Custody Seal Number
1. <u>S. Camacho</u>	<u>10/13/20</u>	<u>1445</u>	1. <u>#ER18</u>	<u>10/13/20</u>	<u>1445</u>	<input type="checkbox"/> UPS <input type="checkbox"/> FEDEX <input type="checkbox"/> OTHER	
2.			2.			Rec'd Temp.: <u>4.7°C</u> Initials: <u>SC3</u> Loc: <input checked="" type="checkbox"/> N Location: <u>ER</u>	
3.			3.			COMMENTS:	
4.			4.				
5.			5.			Hazardous: yes / no <u>FS#FS279029</u>	

Eurofins QC, LLC – Horsham, PA

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

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Dougherty, Erin		Carrier Tracking No(s):		COC No: 630-2677.1																					
Client Contact: Shipping/Receiving		Phone:		E-Mail: erindougherty@eurofinsus.com		State of Origin: New York		Page: Page 1 of 1																					
Company: Eurofins Lancaster Laboratories Env LLC				Accreditations Required (See note): NELAP - New Jersey				Job #: 630-8485-1																					
Address: 2425 New Holland Pike,		Due Date Requested: 10/22/2020		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)																			
City: Lancaster		TAT Requested (days):																											
State, Zip: PA, 17601		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		537.1_DW/637.1_DW_Prep (MOD) PFNA, PFOA, PFOS		537.1_DW/637.1_DW_Prep (MOD) PFNA, PFOA, PFOS (Hold)		Total Number of containers																	
Phone: 717-656-2300(Tel)		WO #:																											
Email:		Project #: 63003671		Sample Type (C=comp, G=grab)		Matrix (W=water, B=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		537.1_DW/637.1_DW_Prep (MOD) PFNA, PFOA, PFOS		537.1_DW/637.1_DW_Prep (MOD) PFNA, PFOA, PFOS (Hold)		Total Number of containers		Special Instructions/Note:											
Project Name: Village of Nyack - PFC		SSOW#:																											
Site:		Sample Date		Sample Time		Preservation Code		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		537.1_DW/637.1_DW_Prep (MOD) PFNA, PFOA, PFOS		537.1_DW/637.1_DW_Prep (MOD) PFNA, PFOA, PFOS (Hold)		Total Number of containers		Special Instructions/Note:											
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Preservation Code		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		537.1_DW/637.1_DW_Prep (MOD) PFNA, PFOA, PFOS		537.1_DW/637.1_DW_Prep (MOD) PFNA, PFOA, PFOS (Hold)		Total Number of containers		Special Instructions/Note:											
POE (630-8485-1)		10/13/20		11:37 Eastern				X								2		5 day turnaround approved by the lab											
BLANK (630-8485-2)		10/13/20		11:37 Eastern						X						1		5 day turnaround approved by the lab											
Note: Since laboratory accreditations are subject to change, Eurofins QC, LLC – Horsham, PA places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory 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 QC, LLC – Horsham, PA laboratory or other instructions will be provided. Any changes to accreditation status should be brought 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 compliance 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										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																			
Deliverable Requested: I, II, III, IV, Other (specify)					Primary Deliverable Rank: 1					Special Instructions/QC Requirements:																			
Empty Kit Relinquished by:					Date:					Time:					Method of Shipment:														
Relinquished by: <i>A. Amos</i>					Date/Time: 10/13/20 1440					Company: EQC					Received by: _____					Date/Time: _____					Company: _____				
Relinquished by: _____					Date/Time: _____					Company: _____					Received by: _____					Date/Time: _____					Company: _____				
Relinquished by: _____					Date/Time: _____					Company: _____					Received by: <i>Edi M...</i>					Date/Time: 10/13/19 2:15					Company: CLCE				
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No: 59 (pfos)					Cooler Temperature (°C) and Other Remarks: 4.4 EA - 5.5°C/505																			

coll

Ver: 01/16/2019

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2020 QUARTER 4 SAMPLING REPORT
(2 OF 2)

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

Attn: Gilbert Francois



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

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



LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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).

A handwritten signature in black ink that reads "Erin Dougherty". The signature is written in a cursive style.

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

Case Narrative

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

Job ID: 630-9481-1

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	

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Client Sample Results

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

Job ID: 630-9481-1

Client Sample ID: LAB SINK

Date Collected: 10/30/20 12:32

Date Received: 11/02/20 15:30

Lab Sample ID: 630-9481-1

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	9.4		1.9	0.49	ng/L		11/06/20 21:51	1	Y6ZN
Perfluorononanoic acid	2.2		1.9	0.49	ng/L		11/06/20 21:51	1	Y6ZN
Perfluorooctanesulfonic acid	7.8		1.9	0.49	ng/L		11/06/20 21:51	1	Y6ZN

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	103		70 - 130	11/06/20 21:51	1	Y6ZN
13C2 PFHxA	79		70 - 130	11/06/20 21:51	1	Y6ZN
13C3 HFPO-DA	72		70 - 130	11/06/20 21:51	1	Y6ZN
d5-NEtFOSAA	90		70 - 130	11/06/20 21:51	1	Y6ZN

Client Sample ID: FIELD BLANK

Date Collected: 10/30/20 12:29

Date Received: 11/02/20 15:30

Lab Sample ID: 630-9481-2

Matrix: Drinking Water

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

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

Job ID: 630-9481-1

Client Sample ID: LAB SINK

Lab Sample ID: 630-9481-1

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.

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

Client Sample ID: FIELD BLANK

Lab Sample ID: 630-9481-2

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.

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

Accreditation/Certification and Definitions Summary

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

Job ID: 630-9481-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20
Alaska	State	PA00009	06-30-21
Alaska (UST)	State	17-027	01-31-21
Arizona	State	AZ0780	03-12-21
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-21
Colorado	State	PA00009	06-30-21
Connecticut	State	PH-0746	12-26-20
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-22
Delaware (DW)	State	N/A	01-25-21
Florida	NELAP	E87997	07-01-21
Hawaii	State	N/A	01-31-21
Illinois	NELAP	004559	01-14-21
Iowa	State	361	03-02-22
Kansas	NELAP	E-10151	10-31-21
Kentucky (DW)	State	KY90088	12-31-20
Kentucky (UST)	State	1.01	11-30-20
Kentucky (WW)	State	KY90088	12-23-20
Louisiana	NELAP	02055	06-30-21
Maine	State	2019012	03-12-21
Maryland	State	100	06-30-21
Massachusetts	State	M-PA009	06-30-21
Michigan	State	9930	01-31-21
Minnesota	NELAP	042-999-487	12-31-21
Missouri	State	450	01-31-22
Montana (DW)	State	0098	11-08-20
Montana (UST)	State	0098	01-01-22
Nebraska	State	NE-OS-32-17	01-31-20 *
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	11-17-20
New Jersey	NELAP	PA011	01-03-21
New York	NELAP	10670	04-01-21
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	12-20-20
North Dakota	State	R-205	01-31-21
Oklahoma	NELAP	R-205	02-01-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	05-08-21
Pennsylvania	NELAP	36-00037	12-03-20
Rhode Island	State	LAO00338	02-28-21
South Carolina	State	89002002	01-31-21
Tennessee	State	02838	01-28-21
Texas	NELAP	T104704194-20-38	08-31-21
Utah	NELAP	PA000092019-16	02-28-21
Vermont	State	VT - 36037	10-29-21
Virginia	NELAP	10561	06-14-21
Washington	State	C457	04-11-21
West Virginia (DW)	State	9906 C	12-31-20
West Virginia DEP	State	055	12-28-20
Wyoming	State	8TMS-L	01-07-21
Wyoming (UST)	A2LA	1.01	11-29-20

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



Accreditation/Certification and Definitions Summary

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

Job ID: 630-9481-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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.

Method Summary

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

Job ID: 630-9481-1

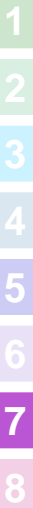
Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

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

Picksheet: P7216471

Cust: TEST → W109890

Schd: 11183

Expected: WEDNESDAY 09/28/33 - 09/28/33

Project Name: -

Start Date: 01/01/95

Stop Date:

Comments/Schedule Details:

Blank pick sheet for use in-house

LAB USE ONLY

Bottle Type

- # _____ Ascorbic/HCL Vials # _____ HCL Vials
- # _____ NA2S2O3
- # _____ NaOH/Zn acetate pH _____
- # _____ HNO3 pH _____
- # _____ H2SO4 pH _____
- # _____ NaOH pH _____
- # _____ Unpreserved
- # _____ HCL
- # _____ NH4CL
- # _____ MEOH
- # _____ Na2SO3/HCL
- # _____ DI Water

VILLAGE OF NYACK W.T.P.

230 ROUTE 59

NYACK, NY, 10960

HORSHAM, PA .

(.) - ..

(215)555-5555 HOME

(215)333-3333 HOME #2

(215)355-3535 PHONE #

Route: 1. KELVIN (C) 845.597.5426

PWSID:

Pseudo
HPC
COO

Field Tests By: /Time:

7216471-1 SAMPLE → LAB SINK . PTAS	Collection Date	Collection Time (Military)	Total # Bottles	Free Cl2	pH/TempC	BR2	Total CL2
				mg/L		YES/NO	mg/L
	10/30/20	1232	2				
7216471-2 Field (TRIZMA) BLANK (RS2) (3)	10/30/20	1229	1				

FIELD WORK CODE: _____

ALL BOTTLES HAVE TRIZMA.

Loc: 630
9481



630-9481 Chain of Custody

Sample Collected By	Circle One	Initials
	Client EQC	

Required TAT: Standard /Rush # Days _____

Relinquished By	Time	Date	Received By	Time	Date	Temp	Iced Y/N	Site	Initials
Roulo St.	1400	10/30/20	D. BACE via Fridge	1400	10/30/20	3.6E	Y	CRF	RS2
Roulo St.	1530	11/2/20	CLR ERIS	1530	11/2/20	2.0E	Y	CRF	RS2

Comments (reporting, methods, etc)

FS279258.

M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St:

M: - T: - W: - Th: - F: - St: - Sn: -

PM: MARK

Printed: 07/21/20 GPS X: _____ Y: _____

Hazardous Y/N

Nyack Water Department

2021 QUARTER 1 SAMPLING REPORT

ANALYTICAL REPORT

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

Laboratory Job ID: 630-13652-1
Client Project/Site: Village of Nyack - PFC
Revision: 2

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

Attn: Gilbert Francois



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

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



LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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).

A handwritten signature in black ink that reads "Erin Dougherty". The signature is written in a cursive style and is positioned above a horizontal blue line.

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

Case Narrative

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

Job ID: 630-13652-1

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..

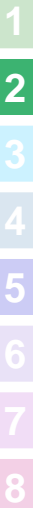
Revision 1 - 3/1/2021 - Reason - Certifications updated to include New York..

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

Job ID: 630-13652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
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	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

Client Sample Results

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

Job ID: 630-13652-1

Client Sample ID: POE

Date Collected: 02/17/21 11:39

Date Received: 02/17/21 15:35

Lab Sample ID: 630-13652-1

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
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

Client Sample ID: BLANK

Date Collected: 02/17/21 11:39

Date Received: 02/17/21 15:35

Lab Sample ID: 630-13652-2

Matrix: Drinking Water

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

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

Job ID: 630-13652-1

Client Sample ID: POE

Lab Sample ID: 630-13652-1

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.

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

Client Sample ID: BLANK

Lab Sample ID: 630-13652-2

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.

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

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant
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Montana (UST)	State	0098	01-01-22
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Project/Site: Village of Nyack - PFC

Job ID: 630-13652-1

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.
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Method Summary

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

Job ID: 630-13652-1

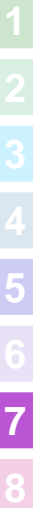
Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

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





QC

CHAIN OF CUSTODY

Page ___ of ___

MATRIX CODES

702 Electronic Drive Phone: 215-355-3900
Horsham, PA 19044 Fax: 215-392-0626

Client/Acct. No. VILLAGE OF NYACK WATER TREATMENT PLANT
Address 230 RT 59

City/State/Zip NYACK, NY, 10960 P.O. No. _____ PWSID #: _____
Phone/Fax 845 358 0641 Quote # _____
Client Contact: Gilbert Francois e-mail: _____

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCL Vials # ___ HCl Vials
___ Na₂S₂O₃ _____
___ Na OH/Zn acetate pH _____
___ HNO₃ pH _____
___ H₂SO₄ pH _____
___ NaOH pH _____
___ Unpreserved
___ HCl # ___ NH₄Cl # ___ MeOH
___ DI Water

- DW: DRINKING WATER
- GW: GROUND WATER
- WW: WASTEWATER
- SO: SOIL
- SL: SLUDGE
- OIL: OIL
- SOL: NON SOIL SOLID
- MI: MISCELLANEOUS
- X: OTHER

ANALYSIS REQUESTED

Field pH, Temp (°C), DO, Cl₂, Cond. etc.

PFAS + Field Blank

PROJECT	Collection		G R A B	C O M P	Matrix Code	Number of Containers																	
	Date	Military Time				Total	H 2 S O 4	H C l	V i a l s	H N O 3	N a O H	Z n A c	U N P R E	B A C T									
<u>P.O.E</u>	<u>2/17/21</u>	<u>1139</u>	<u>X</u>																				



630-13652 Chain of Custody

Loc: 630
13652

SAMPLED BY: (Name/Company) EQC
SARA CAMACHO
TAT: STANDARD (10 DAY) or DUE DATE ___/___/___
Report Format: Standard NJ-RDD SRP-RDD
 Standard + QC Forms EDD

Field Parameters Analyzed By:
Initials SC7/ERF Date/Time: _____

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL INITIAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, IE 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME	DELIVERY: <input type="checkbox"/> EQC COURIER <input type="checkbox"/> CLIENT <input type="checkbox"/> UPS <input type="checkbox"/> FEDEX <input type="checkbox"/> OTHER	Custody Seal Number
<u>S. Camacho</u>	<u>2/17/21</u>	<u>1535</u>	<u># G20</u>	<u>2/17/21</u>	<u>1835</u>		

Rec'd Temp.: 4.12 Initials: SC7 Ice: 0 / N Location:

Hazardous: yes / no FSR#FS280202

Eurofins QC, LLC – Horsham, PA

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

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:													
Client Contact: Shipping/Receiving		Phone:		E-Mail: Erin.Dougherty@eurofinset.com		State of Origin: New York		Page: Page 1 of 1													
Company: Eurofins Lancaster Laboratories Env LLC				Accreditations Required (See note): NELAP - New Jersey				Job #: 630-13652-1													
Address: 2425 New Holland Pike,		Due Date Requested: 3/2/2021		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)											
City: Lancaster		TAT Requested (days):																			
State, Zip: PA, 17601		PO #:																			
Phone: 717-656-2300(Tel)		WO #:																			
Email:		Project #: 63003671		Project Name: Village of Nyack - PFC		SSOW#:		Site:													
Project Name: Village of Nyack - PFC		Project #: 63003671		SSOW#:		Site:		Other:													
Site:		SSOW#:		Site:		Other:		Other:													
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		537.1_DW/537.1_DW_Prep PFNA, PFOA, PFOS		537.1_DW/537.1_DW_Prep PFNA, PFOA, PFOS (Hold)		Total Number of containers		Special Instructions/Note:	
POE (630-13652-1)		2/17/21		11:39 Eastern		Drinking Water						X				2		5 day turnaround approved by the lab			
BLANK (630-13652-2)		2/17/21		11:39 Eastern		Drinking Water						X				1		5 day turnaround approved by the lab			

Note: Since laboratory accreditations are subject to change, Eurofins QC, LLC – Horsham, PA places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory 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 QC, LLC – Horsham, PA laboratory or other instructions will be provided. Any changes to accreditation status should be brought 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 compliance 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		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 1	
		Special Instructions/QC Requirements:	

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 2/17/21 1535		Company: EOC		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by: <i>[Signature]</i>	
		Date/Time: 2/17/21 2245		Company: ELLE			

Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.: PFAS	Page 11 of 11	Cooler Temperature(s) and Other Remarks: EOC = 4.1°C ELLE - 3/1/2021 (Rev. 2)
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Nyack Water Department

2021 QUARTER 2 SAMPLING REPORT

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:
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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

Case Narrative

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

Job ID: 630-17130-1

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

Job ID: 630-17130-1

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

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Client Sample Results

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

Job ID: 630-17130-1

Client Sample ID: POE, Lab Sink

Lab Sample ID: 630-17130-1

Date Collected: 05/10/21 13:25

Matrix: Drinking Water

Date Received: 05/10/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	3.4		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluoroheptanoic acid	2.4		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorooctanoic acid	6.8		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorononanoic acid	1.3	J	1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorodecanoic acid	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorobutanesulfonic acid	2.1		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorohexanesulfonic acid	3.0		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorooctanesulfonic acid	5.1		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
NEtFOSAA	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
NMeFOSAA	ND	*-	1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
HFPODA	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
9CI-PF3ONS	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
11CI-PF3OUdS	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
DONA	ND		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	90		70 - 130	05/20/21 05:00	1	DCS9
13C2 PFHxA	79		70 - 130	05/20/21 05:00	1	DCS9
13C3 HFPO-DA	76		70 - 130	05/20/21 05:00	1	DCS9
d5-NEtFOSAA	87		70 - 130	05/20/21 05:00	1	DCS9

Client Sample ID: Field Blank

Lab Sample ID: 630-17130-2

Date Collected: 05/10/21 13:26

Matrix: Drinking Water

Date Received: 05/10/21 15:10

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

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

Eurofins QC, LLC – Horsham, PA

Client Sample Results

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

Job ID: 630-17130-1

Client Sample ID: Field Blank

Date Collected: 05/10/21 13:26

Date Received: 05/10/21 15:10

Lab Sample ID: 630-17130-2

Matrix: Drinking Water

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Analyzed</u>	<u>Dil Fac</u>	<u>Analyst</u>
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

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	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-22

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

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	537.1 DW Prep	Drinking Water	NEtFOSAA
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
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorohexanoic acid
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorononanoic acid
EPA 537.1	537.1 DW Prep	Drinking Water	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.
α	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

Accreditation/Certification and Definitions Summary

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

Job ID: 630-17130-1



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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

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

Job ID: 630-17130-1

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 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



EQC Picksheet: P7247974
 Eurofins QC, LLC Cust: W09890
 Schd: 55659

Expected: MONDAY 04/05/21 - 06/30/21
 Project Name: VILLAGE OF NYACK WATER TREATMENT PLANT
 Start Date: 02/19/21 Stop Date:
 Comments/Schedule Details:
 CALL GILBERT TO SCHEDULE PRIOR TO
 SAMPLING: PLANT 845-358-3734, OR CELL
 845-597-5424

GILBERT FRANCOIS
 VILLAGE OF NYACK WATER TREATMENT PLANT
 230 ROUTE 59

NYACK, NY 10960
 (845)358-0641
 (845)358-3734 GILBERT FRANCOIS-PLANT
 (845)597-5424 GILBERT FRANCOIS-CELL

Route: 4 SARA CAMACHO

*Gilbert said
 sampling to be done
 early in May.
 call him before.*

LAB USE ONLY
 Bottle Type
 # _____ Ascorbic/HCL Vials # _____ HCL Vials
 # _____ NA2S2O3
 # _____ NaOH/Zn acetate pH _____
 # _____ HNO3 pH _____
 # _____ H2SO4 pH _____
 # _____ NaOH pH _____
 # _____ Unpreserved
 # _____ HCL
 # _____ NH4CL
 # _____ MEOH
 # _____ Na2SO3/HCL
 # _____ DI Water

Collection Date	Collection Time (Military)	Total # Bottles	Field Tests By: _____ /Time: _____			
			Free Cl2 mg/L	pH/TempC	BR2 YES/NO	Total CL2 mg/L
5/10/21	13:25	2				
5/10/21	13:26	1				

7247974-1 PFC) POE, LAB SINK
 29-PFAS SAMP NON MUN, PFC

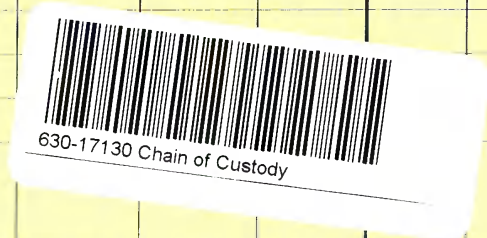


FIELD WORK CODE: _____

7247974-2 FIELD BLANK
 PFC



FIELD WORK CODE: _____



Cooler ID: _____

Sample Collected By <i>Dema</i>	Circle One Client	Initials <i>DM</i>
	EQC	

Required TAT: Standard _____ /Rush _____ # Days _____

Relinquished By	Time	Date	Received By	Time	Date	Temp	Iced Y/N	Site	Initials
<i>Dema</i>	15:10	5/10/21	<i>#16</i>	15:10	5/10/21	4.7°C	Y	ERF	DM

Comments (reporting, methods, etc)

 Hazardous Y/N

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: _____
 M: - T: - W: - Th: - F: - St: - Sn: -
 PM: _____

Printed: 03/21/21 GPS X: _____ Y: _____

Nyack Water Department

2021 QUARTER 2 SAMPLING REPORT

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

Attn: Gilbert Francois



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

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



LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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

Case Narrative

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

Job ID: 630-21256-1



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.

Sample Summary

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

Job ID: 630-21256-1

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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

Client Sample Results

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

Job ID: 630-21256-1

Client Sample ID: POE, Lab Sink

Lab Sample ID: 630-21256-1

Date Collected: 08/26/21 09:50

Matrix: Drinking Water

Date Received: 08/26/21 15:26

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	4.6		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluoroheptanoic acid	3.7		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorooctanoic acid	7.7		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorononanoic acid	1.4	J	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorodecanoic acid	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorotridecanoic acid	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorotetradecanoic acid	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorobutanesulfonic acid	2.6		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorohexanesulfonic acid	2.0		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorooctanesulfonic acid	4.9		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
NEtFOSAA	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
NMeFOSAA	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluoroundecanoic acid	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorododecanoic acid	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
HFPODA	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
9CI-PF3ONS	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
11CI-PF3OUdS	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
DONA	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	115		70 - 130	09/02/21 11:37	1	Y6ZN
13C2 PFHxA	103		70 - 130	09/02/21 11:37	1	Y6ZN
13C3 HFPO-DA	99		70 - 130	09/02/21 11:37	1	Y6ZN
d5-NEtFOSAA	106		70 - 130	09/02/21 11:37	1	Y6ZN

Client Sample ID: Field Blank

Lab Sample ID: 630-21256-2

Date Collected: 08/26/21 09:47

Matrix: Drinking Water

Date Received: 08/26/21 15:26

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		09/02/21 11:49	1	Y6ZN
Perfluoroheptanoic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorooctanoic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorononanoic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorodecanoic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorotridecanoic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorotetradecanoic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorobutanesulfonic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorohexanesulfonic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorooctanesulfonic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
NEtFOSAA	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
NMeFOSAA	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluoroundecanoic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorododecanoic acid	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
HFPODA	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
9CI-PF3ONS	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
11CI-PF3OUdS	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
DONA	ND		1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN

Eurofins QC, LLC – Horsham, PA

Client Sample Results

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

Job ID: 630-21256-1

Client Sample ID: Field Blank

Date Collected: 08/26/21 09:47

Date Received: 08/26/21 15:26

Lab Sample ID: 630-21256-2

Matrix: Drinking Water

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

Accreditation/Certification and Definitions Summary

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

Job ID: 630-21256-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
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	537.1 DW Prep	Drinking Water	NEtFOSAA
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
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorohexanoic acid
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorononanoic acid
EPA 537.1	537.1 DW Prep	Drinking Water	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
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.
α	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



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

Method Summary

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

Job ID: 630-21256-1

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 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



EQC Picksheet: P7263525
Eurofins QC, LLC Cust: W09890
Schd: 55659

GILBERT FRANCOIS
VILLAGE OF NYACK WATER TREATMENT PLANT
230 ROUTE 59

NYACK, NY 10960
(845)358-0641
(845)358-3734 GILBERT FRANCOIS-PLANT
(845)597-5424 GILBERT FRANCOIS-CELL

Route: 4



7263525-1 PFC) POE, LAB SINK
29-PFAS SAMP NON MUN, DIOXANE, PFC



FIELD WORK CODE: _____

7263525-2 FIELD BLANK
PFC

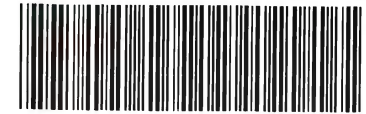


FIELD WORK CODE: _____

Expected: MONDAY 08/02/21 - 09/30/21
Project Name: VILLAGE OF NYACK WATER TREATMENT PLANT
Start Date: 02/19/21 Stop Date:
Comments/Schedule Details:
CALL GILBERT TO SCHEDULE PRIOR TO
SAMPLING: PLANT 845-358-3734, OR CELL
845-597-5424

LAB USE ONLY

# _____	Ascorbic/HCL Vials	# _____	HCL Vials
# _____	NA2S2O3		
# _____	NaOH/Zn acetate pH _____		
# _____	HNO3 pH _____		
# _____	H2SO4 pH _____		
# _____	NaOH pH _____		
# _____	Unpreserved _____		
# _____	HCL _____		
# _____	NH4CL _____		
# _____	MEOH _____		
# _____	Na2SO3/HCL _____		
# _____	DI Water _____		



630-21256 Chain of Custody

PWSID: _____

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Field Tests By: **CGP/ER** /Time: _____

Collection Date	Collection Time (Military)	Total # Bottles	Free Cl2 mg/L	pH/TempC	BR2 YES/NO	Total CL2 mg/L
8/26/21	9:50	CGP 3 U2				
8/26/21	9:47	1				

Cooler ID: _____

Sample Collected By Carlin Padden	Circle One Client EQC	Initials CGP
---	---------------------------------	------------------------

Required TAT: Standard ___/Rush ___ # Days _____

Relinquished By	Time	Date	Received By	Time	Date	Temp	Iced Y/N	Site	Initials
Carlin Padden	15:26	8/26/21	#29 / ER44	15:26	8/26/21	1.5°C	Y	ER	CGP

Comments (reporting, methods, etc)
All 17 compounds need to be tested for.

FSRH: **FS282072**

Hazardous Y/N

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: -
M: - T: - W: - Th: - F: - St: - Sn: -
PM:

Printed: 08/13/21 GPS X: _____ Y: _____



Nyack Water Department

2021 QUARTER 4 SAMPLING REPORT

ANALYTICAL REPORT

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

Laboratory Job ID: 630-24208-1
Client Project/Site: PFC, Dioxane
Sampling Event: Quarterly PFC, Dioxane

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

Attn: Gilbert Francois

Nicki Smith

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

LINKS

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results through
TotalAccess

Have a Question?



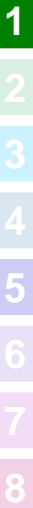
Visit us at:

www.eurofinsus.com/Env

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).

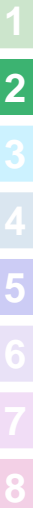
Nicki Smith

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

Case Narrative

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

Job ID: 630-24208-1



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.

Sample Summary

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

Job ID: 630-24208-1

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

- 1
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- 3
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- 6
- 7
- 8

Client Sample Results

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

Job ID: 630-24208-1

Client Sample ID: POE, Lab Sink

Lab Sample ID: 630-24208-1

Date Collected: 11/11/21 09:30

Matrix: Drinking Water

Date Received: 11/11/21 16:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	5.1		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluoroheptanoic acid	3.5		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorooctanoic acid	7.9		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorononanoic acid	1.5	J	1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorodecanoic acid	0.46	J	1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorobutanesulfonic acid	2.6		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorohexanesulfonic acid	2.4		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorooctanesulfonic acid	5.4		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
NEtFOSAA	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
NMeFOSAA	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
HFPODA	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
9CI-PF3ONS	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
11CI-PF3OUdS	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
DONA	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	109		70 - 130	11/15/21 21:38	1	VK3G
13C2 PFHxA	92		70 - 130	11/15/21 21:38	1	VK3G
13C3 HFPO-DA	88		70 - 130	11/15/21 21:38	1	VK3G
d5-NEtFOSAA	92		70 - 130	11/15/21 21:38	1	VK3G

Client Sample ID: Field Blank

Lab Sample ID: 630-24208-2

Date Collected: 11/11/21 09:27

Matrix: Drinking Water

Date Received: 11/11/21 16:45

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

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

Eurofins QC, LLC – Horsham, PA

Client Sample Results

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

Job ID: 630-24208-1

Client Sample ID: Field Blank

Date Collected: 11/11/21 09:27

Date Received: 11/11/21 16:45

Lab Sample ID: 630-24208-2

Matrix: Drinking Water

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

Accreditation/Certification and Definitions Summary

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

Job ID: 630-24208-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
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	537.1 DW Prep	Drinking Water	NEtFOSAA
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
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorohexanoic acid
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorononanoic acid
EPA 537.1	537.1 DW Prep	Drinking Water	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
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

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

Accreditation/Certification and Definitions Summary

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

Job ID: 630-24208-1

Glossary (Continued)

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

Method Summary

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

Job ID: 630-24208-1

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

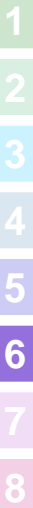
Protocol References:

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



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
Vanessa Berry
EUROFINS EATON
ANALYTICAL, LLC



Utah ELCP CA00006

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.

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

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	ENVIRONMENTAL (Drinking Water)	ENVIRONMENTAL (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,2,3-TCP (5 PPT & 0.5 PPT)	CA SRL 524M-TCP	x		x
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Algal Toxins/Microcystin	In House Method (3570)			
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D Palin Test	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli (MTF/EC+MUG)		x		x
E. Coli (CFR 141.21(f)(6)(i))		x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x		x
Glyphosate + AMPA	In House Method (3618)	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	ENVIRONMENTAL (Drinking Water)	ENVIRONMENTAL (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	Legiolert	x		x
Mercury	EPA 200.8	x		x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
Microcystin, Total	EPA 546	x		x
NDMA	EPA/Agilent 521.1 In house method (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphorous	SM 4500P E	x		x
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
Perfluorinated Pollutant	In house Method (2434)	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-S ²⁻ D		x	
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Triazine Pesticides & Degradates	In House (3617)	x		x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610			x
Field Sampling	N/A			

Acknowledgement of Samples Received

Addr: **Eurofins QC, LLC**
 213 Witmer Road
 Horsham, PA 19044

Attn: Nicki Smith
 Phone: 215.355.3900x3360

Client ID: EUROFINS-QCLLC
 Folder #: 970748
 Project: SUBCONTRACT
 Sample Group: 1,4-Dioxane

Project Manager: Vanessa Berry
 Phone: 503-310-3905
 PO #: 630-24208-1

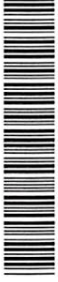
The following samples were received from you on **November 18, 2021 at 15:47**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
<u>202111190051</u>	POE Lab Sink Variable ID: 630-24208-1 @Dioxane_70ppt	11/11/2021 0930

Test Description

@Dioxane_70ppt -- @DIOXANE_0.07PPB





Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:												
Client Contact: Shipping/Receiving		Dougherty, Erin	Dougherty, Erin		630-6303.1												
Company: Eurofins Eaton Analytical		E-Mail: Erin.Dougherty@eurofins.com		State of Origin: New York	Page: Page 1 of 1												
Address: 750 Royal Oaks Drive, Suite 100, Monrovia, CA, 91016		Accreditations Required (See note): NELAP - New York		Job #:	630-24208-1												
Phone: 626-386-1100(Tel)	PO #:	Due Date Requested: 11/29/2021	Analysis Requested														
Email:	WO #:	TAT Requested (days):	<table border="1"> <tr> <th>Analysis Requested</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>SUB (622 - EPA - EPA 622 - 1,4-Dioxane)</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> <tr> <td></td> <td></td> <td></td> <td>X</td> <td>1</td> <td></td> </tr> </table>			Analysis Requested	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (622 - EPA - EPA 622 - 1,4-Dioxane)	Total Number of Containers	Special Instructions/Note:				X	1	
Analysis Requested	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (622 - EPA - EPA 622 - 1,4-Dioxane)	Total Number of Containers	Special Instructions/Note:												
			X	1													
Project #: 63003671	Sample Date: 11/11/21	Sample Time: 09:30 Eastern	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=refuse, A=air)	Preservation Code:												
Site: Village of Nyack Qlty PFC				Drinking Water													
Sample Identification - Client ID (Lab ID)																	
POE, Lab Sink (630-24208-1)																	
<p>Note: Since laboratory accreditations are subject to change, Eurofins OC, LLC - Horsham, PA places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins OC, LLC - Horsham, PA laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins OC, LLC - Horsham, PA attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins OC, LLC - Horsham, PA.</p>																	
Possible Hazard Identification																	
<input type="checkbox"/> Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																	
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1																	
Empty Kit Relinquished by:																	
Relinquished by: [Signature] Date: 11/17/21 1700 Company: Coc																	
Relinquished by: [Signature] Date: 11-18-21 1547 Company: EEA																	
Relinquished by: [Signature] Date: _____ Company: _____																	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:																	
Cooling Temperature(s) °C and Other Remarks:																	





Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

IEA Folder Number: 970748

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

IR Gun ID = 616 (Observation = 1.5 °C) (Corr. Factor = -0.1 °C) (Final = 1.4 °C)

TYPE OF ICE: Real Synthetic No Ice Condition of ICE: Frozen Partially Frozen Thawed N/A

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

- 1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	2 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)
3 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	4 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)

- 4) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)
- 5) pH Check. Manufacturer: _____ Lot Number: _____ pH strip type: 0 - 14 or _____ Expiration Date: _____ Results: _____
- 6) Chlorine check. Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results: _____

7) VOA and Radon Headspace: No Samples with Headspace: Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 632LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:	Samp ID	Bottle #	None/<6	>6mm	Test	Samp ID	Bottle #	None/<6	>6mm	Test

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

RECEIVED BY: [Signature] PRINT NAME: Uvor Hassen COMPANY/TITLE: Eurofins Eaton Analytical DATE: 11-18-22 TIME: 1548

SAMPLES CHECKED AGAINST COC BY: [Signature] PRINT NAME: Eurofins Eaton Analytical COMPANY/TITLE: Eurofins Eaton Analytical DATE: _____ TIME: _____





Eaton Analytical

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

Laboratory Comments

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

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

Laboratory Data

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

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

Samples Received on:
 11/18/2021 15:47

Prepared	Analyzed	Prep Batch	Analyze Batch	Method	Analyte	Result	Units	MDL	MRL	Dilution
POE Lab Sink (202111190051)						Sampled on 11/11/2021 0930				
Variable ID: 630-24208-1										
EPA 522 - @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.



Eaton Analytical

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

Laboratory QC Summary

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

Eurofins QC, LLC

@DIOXANE_0.07PPB

Prep Batch: 1369484 **Analytical Batch: 1369779**
202111190051 POE Lab Sink

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

Eurofins QC, LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
---------	---------	--------	--------	-----------	-------	----------	------------	--------------	------

@DIOXANE_0.07PPB by EPA 522

Prep Batch: 1369484 Analytical Batch: 1369779

Analysis Date: 11/24/2021

LCS1	1,4-Dioxane		20	18.2	ug/L	91	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0730	ug/L	104	(50-150)		
MS2_202111190968	1,4-Dioxane	ND	10	9.27	ug/L	93	(70-130)		
MSD2_202111190968	1,4-Dioxane	ND	10	9.47	ug/L	95	(70-130)	20	2.1
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)		
MRL_CHK	THF-d8 (I)			108	%	108	(50-150)		
MS2_202111190968	THF-d8 (I)			122	%	123	(50-150)		
MSD2_202111190968	THF-d8 (I)			115	%	115	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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: P7273817
Eurofins QC, LLC Cust: W09890
Schd: 55659

Expected: MONDAY 11/01/21 - 12/31/21
Project Name: VILLAGE OF NYACK WATER TREATMENT PLANT
Start Date: 02/19/21 Stop Date:
Comments/Schedule Details:
CALL GILBERT TO SCHEDULE PRIOR TO
SAMPLING: PLANT 845-358-3734, OR CELL
845-597-5424

GILBERT FRANCOIS
VILLAGE OF NYACK WATER TREATMENT PLANT
230 ROUTE 59

NYACK, NY 10960
(845)358-0641
(845)358-3734 GILBERT FRANCOIS-PLANT
(845)597-5424 GILBERT FRANCOIS-CELL

Route: 4 SARA CAMACHO

PWSID:

LAB USE ONLY
_____ Ascorbic/HCL Vials # _____ HCL Vials
_____ NA2S2O3
_____ NaOH/Zn acetate pH _____
_____ HNO3 pH _____
_____ H2SO4 pH _____
_____ NaOH pH _____
_____ Unpreserved
_____ HCL
_____ NH4CL
_____ MEOH
_____ Na2SO3/HCL
_____ DI Water

Field Tests By: **CGPIER** /Time:

7273817-1 PFC) POE, LAB SINK
29-PFAS SAMP NON MUN, DIOXANE, PFC



FIELD WORK CODE: _____

7273817-2 FIELD BLANK
PFC



FIELD WORK CODE: _____

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i

Collection Date	Collection Time (Military)	Total # Bottles	Free Cl2 mg/L	pH/TempC	BR2 YES/NO	Total CL2 mg/L
11/11/21	9:30	3				
11/11/21	9:27	1				



630-24208 Chain of Custody

Loc: 630
24208

Sample Collected By <i>Caitlin Padden</i>	Circle One Client EQC	Initials CBP
Relinquished By <i>Caitlin Padden</i>	Time 16:45	Date 11/11/21
Received By <i>ER90/ER229</i>	Time 16:45	Date 11/11/21

Required TAT: Standard ___/Rush ___ # Days ___						
Time	Date	Temp	Iced Y/N	Site	Initials	Comments (reporting, methods, etc)
		2.8°C	Y	ER	CBP	

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: 07:00-17:00
M: - T: - W: - Th: - F: - St: - Sn: -
PM:

- Sn: - Printed: 10/17/21 GPS X: _____ Y: _____

Hazardous Y/N

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Nyack Water Department

2022 QUARTER 1 SAMPLING REPORT

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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).

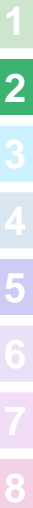
Nicki Smith

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

Case Narrative

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

Job ID: 630-27428-1



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

Job ID: 630-27428-1

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

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Client Sample Results

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

Job ID: 630-27428-1

Client Sample ID: POE, Lab Sink

Lab Sample ID: 630-27428-1

Date Collected: 02/14/22 13:59

Matrix: Drinking Water

Date Received: 02/14/22 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	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

Lab Sample ID: 630-27428-2

Date Collected: 02/14/22 13:44

Matrix: Drinking Water

Date Received: 02/14/22 16:12

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

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

Eurofins Philadelphia

Client Sample Results

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

Job ID: 630-27428-1

Client Sample ID: Field Blank

Lab Sample ID: 630-27428-2

Date Collected: 02/14/22 13:44

Matrix: Drinking Water

Date Received: 02/14/22 16:12

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Analyzed</u>	<u>Dil Fac</u>	<u>Analyst</u>
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

Accreditation/Certification and Definitions Summary

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

Job ID: 630-27428-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
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	11Cl-PF3OUdS
EPA 537.1	537.1 DW Prep	Drinking Water	9Cl-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	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
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorohexanoic acid
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorononanoic acid
EPA 537.1	537.1 DW Prep	Drinking Water	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
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.
α	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: 630-27428-1

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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

Method Summary

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

Job ID: 630-27428-1

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

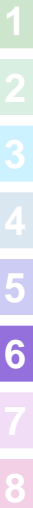
Protocol References:

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



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

Vanessa Berry

**EUROFINS EATON
ANALYTICAL, LLC**



Utah ELCP CA00006

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.

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

ISO/IEC 17025:2017 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>

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

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	x	x
Hardness	SM 2340 B	x	x
Hexavalent Chromium	EPA 218.6,	x	x
Hexavalent Chromium	EPA 218.7,	x	
Hexavalent Chromium	SM 3500-Cr B		x
Inorganic Anions and DBPs	EPA 300.0	x	x
Norganic Anions and DBPs	EPA 300.1	x	
Kjeldahl Nitrogen	EPA 351.2		x
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EPA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Odor	SM2150B	x	
Organohalide Pesticides and PCB	EPA 505	x	
Ortho Phosphate	SM 4500P E	x	
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	x	
pH	EPA 150.1 SM 4500-H+ B	x	x
Phenolics – Low Level	*WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
Phenylurea Pesticides/Herbicides	+ LCMS-2448	x	
Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Radon-222	SM 7500RN	x	
Residue (Filterable)	SM 2540C	x	x
Residue (Non-Filterable)	SM 2540D		x
Residue (Total)	SM 2540B		x
Residue (Volatile)	EPA 160.4		x
Semi-Volatile Compounds	EPA 525.2	x	
Silica	SM 4500-SiO2 C	x	x
Sulfide	SM 4500-S D		x
Sulfite	SM 4500-SO3 B	x	x
Surfactants	SM 5540C	x	x
Taste and Odor	SM 6040 E	x	
Total Organic Carbon	SM 5310 C	x	x
Total Phenols	EPA 420.1		x
Total Phenols	EPA 420.4	x	x
Triazine Pesticides and their Degradates	+ LCMS-3617	x	
Turbidity	EPA 180.1	x	x
Uranium by ICP/MS	EPA 200.8	x	
UV 254 Organic Constituents	SM 5910B	x	
VOCs	EPA 524.2	x	
VOCs	*(GCMS 2412) by EPA 524.2 modified	x	

(*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.

(+) In-House Method

Acknowledgement of Samples Received

Addr: **Eurofins QC, LLC**
 213 Witmer Road
 Horsham, PA 19044

Attn: Nicki Smith
 Phone: 215.355.3900x3360

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

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 #	Sample ID	Sample Date
<u>202202150852</u>	POE, Lab Sink (630-27428-1) Variable ID: 630-27428-1 @Dioxane_70ppt	02/14/2022 1359

Test Description

@Dioxane_70ppt -- @DIOXANE_0.07PPB

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

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving		Dougherty, Erin	Dougherty, Erin		630-7019-1
Company: Eurofins Eaton Analytical		E-Mail: Erin.Dougherty@eurofins.com	E-Mail: Erin.Dougherty@eurofins.com	State of Origin: New York	Page: Page 1 of 1
Address: 750 Royal Oaks Drive, Suite 100, City: Monrovia State, Zip: CA, 91016 Phone: 626-386-1100(Tel) Email:		Accreditations Required (See note): NELAP - New York	Project #: 63003671 SSOW#:	Job #: 630-27428-1	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDA Other:
Due Date Requested: 2/28/2022		Analysis Requested			
TAT Requested (days):		Total Number of containers			
PO #:		SUB (522 - EPA - EPA 522 - 1,4-Dioxane)			
WO #:		Perform MS/MSD (Yes or No)			
Project Name: PFC, Dioxane		Field Filtered Sample (Yes or No)			
Site: Village of Nyack Qty PFC		Preservation Code:			
Sample Date		Sample Time		Sample Instructions/Note:	
2/14/22		13:59 Eastern		1	
Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wast/oil, B= tissue, A=Air)		Special Instructions/Note:	
POE, Lab Sink (630-27428-1)		Drinking Water		X	

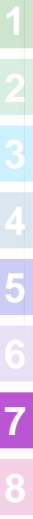
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/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 compliance to Eurofins Environment Testing Philadelphia, LLC.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1
 Special Instructions/QC Requirements:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
 Relinquished by: _____ Date/Time: 2/14/22 16:58 Company: EEA
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks: 13.5.9.1



INTERNAL CHAIN OF CUSTODY RECORD

eurolfins | Eaton Analytical

EEA Folder Number: 98A571

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

IR Gun ID = 649A (Observation = 5.8 °C) (Corr. Factor = 0.3 °C) (Final = 5.5 °C)
 TYPE OF ICE: Real Synthetic No Ice Frozen Partially Frozen Thawed N/A

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

- 1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥ 10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	2 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)
3 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	4 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)

- 4) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)
- 5) pH Check. Manufacturer: _____ Lot Number: _____ pH strip type: 0 - 14 or _____ Expiration Date _____ Results: _____
- 6) Chlorine check. Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results _____

7) Headspace: No Samples with Headspace: Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)
 Exempt from headspace concerns: Methods 516.4, HAA(6251.652), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<6	>6mm	Test	Samp ID	Bottle #	None/<6	>6mm	Test

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

RECEIVED BY: <u>[Signature]</u>	PRINT NAME: <u>G. BEITNER</u>	DATE: <u>02.15.2022</u>	TIME: <u>18.13</u>
COMPANY/TITLE: <u>Eurofins Eaton Analytical</u>		DATE: _____	
SIGNATURE: <u>[Signature]</u>		PRINT NAME: _____	
COMPANY/TITLE: <u>Eurofins Eaton Analytical</u>		DATE: _____	
SAMPLES CHECKED AGAINST COC BY: _____			



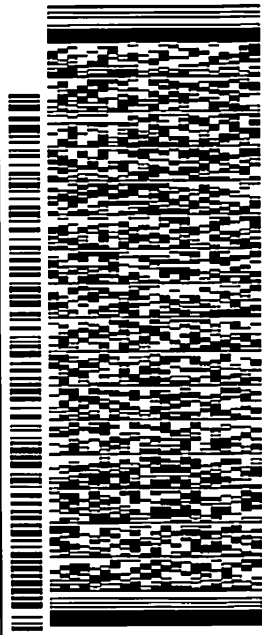
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ORIGIN ID: J.P.A. (215) 355-3900
 SARA CAMACHO
 EUROFINS
 196 PATERSON AVE
 SUITE 100
 EAST RUTHERFORD, NJ 07003
 UNITED STATES US

TO **EUROFINS EATON ANALYTICAL**
EUROFINS EATON ANALYTICAL
750 ROYAL OAKS DRIVE
SUITE 100

MONROVIA CA 91016
 REF. (800) 566-5227

PO INV DEPT.



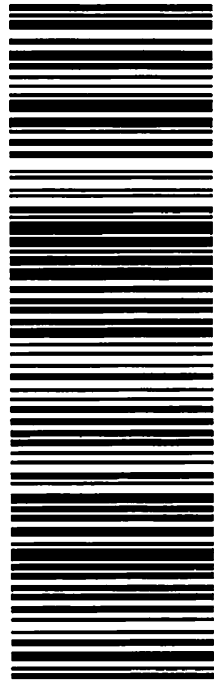
J221022010601ca

56D.J2027C.F4A

TUE - 15 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 7760 4064 1986

92 WHPA
 CA-US
91016 BUR



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 apply. Your right to recover from FedEx for any loss, including incidental, consequential, or special is limited to the greater of \$100 or the attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$1,000, e.g. jewelry, authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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

Laboratory Comments

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

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

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- 7
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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.

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

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

Samples Received on:
 02/15/2022 1813

Prepared	Analyzed	Prep Batch	Analyze Batch	Method	Analyte	Result	Units	MDL	MRL	Dilution
POE, Lab Sink (630-27428-1) (202202150852)						Sampled on 02/14/2022 1359				
Variable ID: 630-27428-1										
EPA 522 - @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

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

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

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Eurofins QC, LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
---------	---------	--------	--------	-----------	-------	----------	------------	--------------	------

@DIOXANE_0.07PPB by EPA 522

Prep Batch: 1387505 Analytical Batch: 1387686

Analysis Date: 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.
 Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
 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
 Eurofins QC, LLC Cust: W09890
 Schd: 55659

GILBERT FRANCOIS
 VILLAGE OF NYACK WATER TREATMENT PLANT
 230 ROUTE 59

NYACK, NY 10960
 (845)358-0641
 (845)358-3734 GILBERT FRANCOIS-PLANT
 (845)597-5424 GILBERT FRANCOIS-CELL

Route: 4 SARA CAMACHO

Expected: MONDAY 02/07/22 - 03/31/22
 Project Name: VILLAGE OF NYACK WATER TREATMENT PLANT
 Start Date: 02/19/21 Stop Date:
 Comments/Schedule Details:
 CALL GILBERT TO SCHEDULE PRIOR TO
 SAMPLING: PLANT 845-358-3734, OR CELL
 845-597-5424

PWSID:

LAB USE ONLY

Bottle Type
 # _____ Ascorbic/HCL Vials # _____ HCL Vials
 # _____ NA2S2O3
 # _____ NaOH/Zn acetate pH
 # _____ HNO3 pH
 # _____ H2SO4 pH
 # _____ NaOH pH
 # _____ Unpreserved
 # _____ HCL
 # _____ NH4CL
 # _____ MEOH
 # _____ Na2SO3/HCL
 # _____ DI Water

Collection Date	Collection Time (Military)	Total # Bottles	Field Tests By: /Time:		
			Free Cl2 mg/L	pH/TempC	BR2 YES/NO
2/14/22	1359	3			
2/14/22	1341	1			



Loc: 630
 27428

Sample Collected By SARA CAMACHO	Circle One EQC	Initials
Relinquished By <i>[Signature]</i>	Time 1612	Date 2/14/22
Received By <i>[Signature]</i>	Time 1612	Date 2/14/22

Required TAT: Standard /Rush # Days	Temp 1.72	Iced Y/N Y	Site CAC	Initials JCS
-------------------------------------	--------------	---------------	-------------	-----------------

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: PM:

Comments (reporting, methods, etc)

Hazardous Y/N



Nyack Water Department

2022 QUARTER 2 SAMPLING REPORT

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:

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

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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



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

Coliform MCLs

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

Warranties, Terms, and Conditions

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

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

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

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

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

05499

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

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

· All samples are collected as “grab” samples unless otherwise identified.

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

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

· Eurofins’ online data portal “TotalAccess” will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

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

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

Case Narrative

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

Job ID: 630-36643-1

Job ID: 630-36643-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

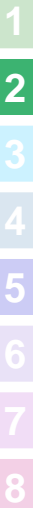
**Job Narrative
630-36643-1**

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.



Sample Summary

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

Job ID: 630-36643-1

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

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- 8

Client Sample Results

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

Job ID: 630-36643-1

Client Sample ID: LAB SINK

Lab Sample ID: 630-36643-1

Date Collected: 06/16/22 11:30

Matrix: Drinking Water

Date Received: 06/16/22 15:00

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

Client Sample ID: LAB SINK

Lab Sample ID: 630-36643-1

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.

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

Accreditation/Certification and Definitions Summary

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

Job ID: 630-36643-1

Laboratory: Eurofins Eaton South Bend

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

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-22
Alabama	State	40700	06-30-22
Alaska	State	IN00035	06-30-22
Arizona	State	AZ0432	07-26-22
Arkansas (DW)	State	EPA IN00035	06-30-22
California	State	2920	06-30-22
Colorado	State	IN00035	02-28-23
Connecticut	State	PH-0132	03-31-22 *
Delaware (DW)	State	IN00035	06-30-22
Florida	NELAP	E87775	06-30-22
Georgia (DW)	State	929	06-30-22
Hawaii	State	IN035	06-30-22
Idaho (DW)	State	IN00035	12-31-22
IL Dept. of Public Health (Micro)	State	17767	06-30-22
Illinois	NELAP	200001	09-30-22
Indiana	State	C-71-01	12-31-22
Indiana (Micro)	State	M-76-07	12-31-22
Iowa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-22
Kentucky (DW)	State	KY90056	12-31-22
Louisiana (DW)	State	LA180008	12-31-22
Maine	State	IN00035	05-01-23
Maryland	State	209	03-31-23
Massachusetts	State	M-IN035	06-30-22
MI - RadChem Recognition	State	9926	06-30-22
Michigan	State	9926	03-22-22 *
Minnesota	NELAP	1989807	12-31-22
Mississippi	State	IN00035	06-30-22
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-01-23
Nebraska	State	NE-OS-05-04	06-30-22
Nevada	State	IN000352021-1	07-31-22
New Hampshire	NELAP	2124	11-05-22
New Jersey	NELAP	IN598	06-30-22
New Mexico	State	IN00035	06-30-22
New York	NELAP	11398	04-01-23
North Carolina (DW)	State	18700	07-31-22
North Dakota	State	R-035	06-30-22
Ohio	State	87775	06-30-22
Oklahoma	NELAP	D9508	08-31-22
Oregon	NELAP	4156	09-16-22
Pennsylvania	NELAP	68-00466	04-30-23
Puerto Rico	State	IN00035	04-01-23
Rhode Island	State	LAO00343	12-30-22
South Carolina	State	95005001	06-30-22
South Dakota (DW)	State	IN00035	12-31-22
Tennessee	State	TN02973	06-30-22
Texas	NELAP	T104704187-20-4	12-31-22
Texas	TCEQ Water Supply	TX207	06-30-22
USEPA Reg X SDWA	US Federal Programs	IN00035	08-20-22

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

Eurofins Environment Testing Philadelphia, LLC



Accreditation/Certification and Definitions Summary

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

Job ID: 630-36643-1

Laboratory: Eurofins Eaton South Bend (Continued)

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

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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.

Eurofins Environment Testing Philadelphia, LLC

Method Summary

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

Job ID: 630-36643-1

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

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



Environment Testing
America

213 Witmer Road Phone: 215-355-3900
Horsham, PA 19044

Client/Acct. No. VILLAGE OF NYACK
Address WATER TREATMENT PLANT
(WO 9890)

City/State/Zip
Phone/Fax
Client Contact:

CHAIN OF CUSTODY

Page ___ of ___

Bill to/Report to (if different)

Sampling Site Address (if different) Include State

P.O. No. PWSID #:

Quote #

e-mail:

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCL Vials # ___ HCL Vials

___ Na₂S₂O₃

___ Na OH/Zn acetate pH

___ HNO₃ pH

___ H₂SO₄ pH

___ NaOH pH

___ Unpreserved

___ HCL # ___ NH₄Cl # ___ MeOH

___ DI Water

MATRIX CODES

DW: DRINKING WATER

GW: GROUND WATER

WW: WASTEWATER

SO: SOIL

SL: SLUDGE

OIL: OIL

SOL: NON SOIL SOLID

MI: MISCELLANEOUS

X: OTHER

LAB USE ONLY

PROJECT

Collection

Number of Containers

FIELD ID

Date

Military Time

GRAB COMP

MATRIX CODE

Total

H₂SO₄

HCl

Vials

HNO₃

NaOH

ZnAc

UNPRE

BACT

ANALYSIS REQUESTED

Field pH, Temp (°C), DO, Cl₂, Cond. etc.

LAB SINK

6/16/22

1130

X

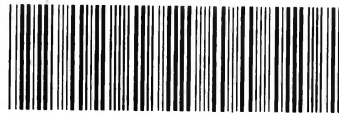
DW

1

DIOXANE

2X - 250ML AMBER G.S.
WITH SODIUM BISULFATE

Loc: 630
36643



630-36643 Chain of Custody

RESAMPLED DUE TO INCORRECT
BOTTLING USED ON 5/26/22.

-R52

SAMPLED BY: (Name/Company)

TAT: STANDARD (10 DAY)

Report Format: Standard NJ-RDD SRP-RDD

Field Parameters Analyzed By:

Rou Sts
ECTP

or DUE DATE ___/___/___

Standard + QC Forms EDD

Initials

Date/Time:

Please call for pricing and availability for rush (<10 day) turnaround and for all but standard reporting format.

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 00, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME	DELIVERY: <input checked="" type="checkbox"/> FCC COURIER <input type="checkbox"/> CLIENT <input type="checkbox"/> UPS <input type="checkbox"/> FEDEX <input type="checkbox"/> OTHER	Custody Seal Number
<i>Rou Sts</i>	6/16/22	1500	1. FEDEX	6/16/22	1500		6/16/22
2.	DATE	TIME	RECEIVED BY	DATE	TIME	Rec'd Temp.: _____ Initials: _____ Ice Y/N Location: _____	
3.	DATE	TIME	RECEIVED BY	DATE	TIME	COMMENTS: <i>SUBBED OUT TO:</i>	
4.	DATE	TIME	RECEIVED BY	DATE	TIME	<i>EATON ANALYTICAL,</i>	
5.	DATE	TIME	RECEIVED BY	DATE	TIME	<i>SOUTH BEND, INDIANA</i>	

Hazardous: yes/no *1.8 °C / R52 / ECTP* 6/29/2022

Chain of Custody Record



Client Information (Sub Contract Lab)		Client Contact: Eurofins Eaton Analytical	Shipping/Receiving: Eurofins Eaton Analytical	Lab P/N: Dougherty, Erin	E-Mail: Erin.Dougherty@et.eurofins.com	Carrier Tracking No(s):	COC No: 630-7963-1
Address: 110 S Hill Street, South Bend, IN, 46617		Due Date Requested: 7/13/2022	TAT Requested (days):	State of Origin: New York	Page: Page 1 of 1	Job #: 630-36643-1	Preservation Codes:
City: South Bend, State Zip: IN, 46617		Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #: WO #:	Analysis Requested			
Project Name: 1,4-Dioxane		Project #: 63003671	SSOVW#:	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NH4SO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - PH 4-5 Y - Trizma Z - other (specify)			
Village of Nyack City PFC		Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)			
LAB SINK (630-36643-1)		Sample Date: 6/16/22	Sample Time: 11:30 Eastern	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Overstool, Aqueous)	Preservation Code: Drinking Water	Perform MS/MSD (Yes or No)
							522_PREC/522_Prep 1,4-Dioxane
							PH 2 CL A ID
							Total Number of containers
							2
							Special Instructions/Note:

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 laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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 compliance to Eurofins Environment Testing Philadelphia, LLC.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
 Relinquished by: Steve ST. Date/Time: 6/16/22 1500 Company: ETP
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: 18°C WWS 2.4

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:

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



LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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



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

Coliform MCLs

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

Warranties, Terms, and Conditions

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

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

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

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

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

05499

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

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

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

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

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

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

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

Erin Dougherty

Project Administrator

5/31/2022 1:17:42 PM

Case Narrative

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

Job ID: 630-34085-1

Job ID: 630-34085-1

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

Job ID: 630-34085-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7

Client Sample Results

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

Job ID: 630-34085-1

Client Sample ID: POE, Lab Sink

Lab Sample ID: 630-34085-1

Date Collected: 05/20/22 12:56

Matrix: Drinking Water

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	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
9Cl-PF3ONS	ND		1.8	0.45	ng/L		05/27/22 22:47	1	DCS9
11Cl-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

Lab Sample ID: 630-34085-2

Date Collected: 05/20/22 12:54

Matrix: Drinking Water

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
9Cl-PF3ONS	ND		1.8	0.46	ng/L		05/27/22 22:58	1	DCS9
11Cl-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

Client Sample Results

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

Job ID: 630-34085-1

Client Sample ID: Field Blank

Lab Sample ID: 630-34085-2

Date Collected: 05/20/22 12:54

Matrix: Drinking Water

Date Received: 05/20/22 15:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Analyzed</i>	<i>Dil Fac</i>	<i>Analyst</i>
13C2 PFDA	87		70 - 130	05/27/22 22:58	1	DCS9
13C2 PFHxA	98		70 - 130	05/27/22 22:58	1	DCS9
13C3 HFPO-DA	95		70 - 130	05/27/22 22:58	1	DCS9
d5-NEtFOSAA	100		70 - 130	05/27/22 22:58	1	DCS9



Accreditation/Certification and Definitions Summary

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

Job ID: 630-34085-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

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

Qualifiers

LCMS

Qualifier	Qualifier Description
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

Method Summary

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

Job ID: 630-34085-1

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 References:

EPA = US Environmental Protection Agency

Laboratory References:

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



EQC Picksheet: P7289063
Eurofins QC, LLC Cust: W09890

Schd: 55659
GILBERT FRANCOIS
VILLAGE OF NYACK WATER TREATMENT PLANT
230 ROUTE 59

NYACK, NY 10960
(845)358-0641
(845)358-3734 GILBERT FRANCOIS-PLANT
(845)597-5424 GILBERT FRANCOIS-CELL

Expected: MONDAY 05/02/22 - 05/31/22
Project Name: VILLAGE OF NYACK WATER TREATMENT PLANT
Start Date: 02/19/21 Stop Date:
Comments/Schedule Details:
CALL GILBERT TO SCHEDULE PRIOR TO
SAMPLING: PLANT 845-358-3734, OR CELL
845-597-5424

LAB USE ONLY
_____ Ascorbic/HCL Vials # _____ HCL Vials
_____ NA2S2O3
_____ NaOH/Zn acetate pH _____
_____ HNO3 pH _____
_____ H2SO4 pH _____
_____ NaOH pH _____
_____ Unpreserved
_____ HCL
_____ NH4CL
_____ MEOH
_____ Na2SO3/HCL
_____ DI Water

Route: 4 SARA CAMACHO

PWSID:

*THIS IS WEST NYACK,
PLEASE UPDATE RECORDS!*

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7289063-1 PFC) POE, LAB SINK
29-PFAS SAMP NON MUN, DIOXANE, PFC



FIELD WORK CODE: _____

7289063-2 FIELD BLANK
PFC



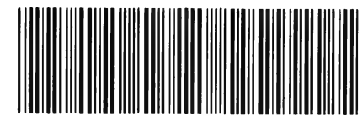
FIELD WORK CODE: _____

*- 1: 2X - 250 mL P. w/ TRIS
1X - 250 mL AMBER GLS w/ AMMONIUM CHLORIDE*

- 2: 1X - 250 mL P. w/ TRIS

Collection Date	Collection Time (Military)	Total # Bottles	Field Tests By: /Time:		
			Free Cl2 mg/L	pH/TempC	BR2 YES/NO
5/20/22	1256	3			
5/20/22	1254	1			

Loc: 630
34085



630-34085 Chain of Custody

Cooler ID: _____

Sample Collected By	Circle One	Initials
	EQC	RSZ
Client		

Required TAT: Standard ___/Rush ___ # Days _____

Relinquished By	Time	Date	Received By	Time	Date	Temp	Iced Y/N	Site	Initials
<i>Rose St</i>	1500	5/20/22	<i>CLRS</i>	1500	5/20/22	3.2°C	Y	620	RSZ

Comments (reporting, methods, etc)
*For Fluoride GLS
5/20/22*

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 S: _____
M: - T: - W: - Th: - F: - S: - Sn: -
PM:

- Sn: - Printed: 04/17/22 GPS X: _____ Y: _____

Hazardous Y/N

Eurofins Environment Testing Philadelphia,

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

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:			
Client Contact:		Phone:		E-Mail:		State of Origin:		Page:			
Shipping/Receiving				Erin.Dougherty@et.eurofinsus.com		New York		Page 1 of 1			
Company:				Accreditations Required (See note):				Job #:			
Eurofins Lancaster Laboratories Environm				NELAP - New York				630-34085-1			
Address:		Due Date Requested:		Analysis Requested						Preservation Codes:	
2425 New Holland Pike,		6/2/2022									
City:		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers			
Lancaster											
State, Zip:		PO #:		537.1_DW/537.1_DW_Prep DW EPA 537.1 List of 18							
PA, 17601											
Phone:		WO #:									
717-656-2300(Tel)											
Email:		Project #:									
		63003671									
Project Name:		SSOW#:									
PFC, Dioxane											
Site:											
Village of Nyack Qtly PFC											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:		
				Preservation Code:							
POE, Lab Sink (630-34085-1)		5/20/22	12:56 Eastern		Drinking Water		X	2			
Field Blank (630-34085-2)		5/20/22	12:54 Eastern		Drinking Water		X	1			
<p>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 laboratory 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 compliance to Eurofins Environment Testing Philadelphia, LLC</p>											
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 1		Special Instructions/QC Requirements:						
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:				
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
[Signature]		5/20/22 1500		ETINS		[Signature]					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
[Signature]						[Signature]					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
[Signature]						[Signature]		5/20/22 21:50 ELLET			
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) C and Other Remarks:							
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		ER1055		3.2°C				1.1			

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