

ANALYTICAL REPORT

PREPARED FOR

Attn: Water Report
NW Natural Water Services, LLC
107 S Main St
Coupeville, Washington 98239

Generated 10/9/2025 5:16:33 PM

JOB DESCRIPTION

Shirona 78373F

JOB NUMBER

110-2372-1

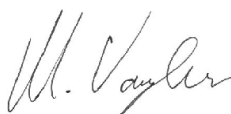
Eurofins Washington

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



Generated
10/9/2025 5:16:33 PM

Authorized for release by
Madison Vaughan, Project Management Assistant I
Madison.Vaughan@et.eurofinsus.com
Designee for
Crystal Deighton, Admin Asst. I
Crystal.Deighton@et.eurofinsus.com
(360)757-1400

Case Narrative

Client: NW Natural Water Services, LLC
Project: Shirona 78373F

Job ID: 110-2372-1

Job ID: 110-2372-1

Eurofins Washington

Job Narrative 110-2372-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 9/29/2025 3:53 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 5.8°C.

PFAS

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

Eurofins Washington

Sample Summary

Client: NW Natural Water Services, LLC
Project/Site: Shirona 78373F

Job ID: 110-2372-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
110-2372-1	Shirona Water System	Drinking Water	09/29/25 11:20	09/29/25 15:53	78373F

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

Client Sample Results

Client: NW Natural Water Services, LLC
Project/Site: Shirona 78373F

Job ID: 110-2372-1

Client Sample ID: Shirona Water System

Lab Sample ID: 110-2372-1

Date Collected: 09/29/25 11:20

Matrix: Drinking Water

Date Received: 09/29/25 15:53

PWSID Number: 78373F

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Analyzed	Dil Fac	Analyst
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluorodecanoic acid (PFDA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluorododecanoic acid (PFDoA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluoroheptanoic acid (PFHpA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluorohexanoic acid (PFHxA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluorononanoic acid (PFNA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluorooctanoic acid (PFOA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluoroundecanoic acid (PFUnA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluorobutanoic acid (PFBA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluoropentanoic acid (PFPeA)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	ng/L		10/03/25 17:48	1	Y5FM

Isotope Dilution	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C3 HFPO-DA	104		50 - 200	10/03/25 17:48	1	Y5FM
13C6 PFDA	101		50 - 200	10/03/25 17:48	1	Y5FM
13C5 PFHxA	95		50 - 200	10/03/25 17:48	1	Y5FM
13C4 PFHpA	100		50 - 200	10/03/25 17:48	1	Y5FM
13C8 PFOA	104		50 - 200	10/03/25 17:48	1	Y5FM
13C9 PFNA	108		50 - 200	10/03/25 17:48	1	Y5FM
13C7 PFUnA	101		50 - 200	10/03/25 17:48	1	Y5FM
13C2 PFDoA	102		50 - 200	10/03/25 17:48	1	Y5FM
13C4 PFBA	109		50 - 200	10/03/25 17:48	1	Y5FM
13C5 PFPeA	160		50 - 200	10/03/25 17:48	1	Y5FM
13C3 PFBS	99		50 - 200	10/03/25 17:48	1	Y5FM
13C3 PFHxS	108		50 - 200	10/03/25 17:48	1	Y5FM
13C8 PFOS	109		50 - 200	10/03/25 17:48	1	Y5FM

Eurofins Washington

Client Sample Results

Client: NW Natural Water Services, LLC
Project/Site: Shirona 78373F

Job ID: 110-2372-1

Client Sample ID: Shirona Water System

Lab Sample ID: 110-2372-1

Date Collected: 09/29/25 11:20

Matrix: Drinking Water

Date Received: 09/29/25 15:53

PWSID Number: 78373F

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Analyzed</i>	<i>Dil Fac</i>	<i>Analyst</i>
13C2-4:2-FTS	132		50 - 200	10/03/25 17:48	1	Y5FM
13C2-6:2-FTS	128		50 - 200	10/03/25 17:48	1	Y5FM
13C2-8:2-FTS	107		50 - 200	10/03/25 17:48	1	Y5FM

Accreditation/Certification and Definitions Summary

Client: NW Natural Water Services, LLC
Project/Site: Shirona 78373F

Job ID: 110-2372-1

Laboratory: Eurofins Eaton Analytical Pomona

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	5890.01 & 5890.02	06-30-27
Alabama	State	41060	06-18-26
Arizona	State	AZ0833	02-27-26
Arkansas (DW)	State	CA00006	01-31-26
California	State	2813	06-18-27
Colorado	State	CA00006	01-31-26
Connecticut	State	PH-0107	03-31-26
Delaware (DW)	State	CA00006	01-31-26
Florida	NELAP	E871024	06-30-26
Georgia (DW)	State	947	01-31-26
Guam	State	25-02R	03-31-26
Hawaii	State	CA00006	01-31-26
Hawaii (Micro)	State	CA00006	01-31-26
Idaho (DW)	State	CA00006	01-31-26
Idaho (Micro)	State	CA00006	03-31-26
Illinois	NELAP	200033	03-31-26
Indiana	State	C-CA-01	06-18-27
Kansas	NELAP	E-10268	04-30-26
Kentucky (DW)	State	KY90107	12-31-25
Louisiana (DW)	State	LA008	12-31-25
Maine	State	CA00006A	03-08-26
Maryland	State	224	03-31-26
Massachusetts	State	M-CA006	06-30-26
MI - RadChem Recognition	State	9906	03-17-26
Michigan	State	9906	03-17-26
Mississippi	State	CA2813	06-18-25 *
Montana (DW)	State	CERT0035	01-01-26
Nebraska	State	NE-OS-21-13	01-31-26
Nevada	State	CA00006	07-31-26
New Hampshire	NELAP	2959	03-29-26
New Jersey	NELAP	CA008	06-30-26
New Mexico	State	CA00006	01-31-26
New York	NELAP	11320	04-01-26
North Carolina (DW)	State	06701	07-31-26
North Dakota	State	R-009	01-31-26
Northern Mariana Islands (DW)	State	CA00006	01-31-26
Ohio	State	87786	01-31-26
Oregon	NELAP	4034	01-29-26
Pennsylvania	NELAP	68-00565	10-31-25
Puerto Rico	State	CA00006	03-31-26
Rhode Island	State	LAO00381	12-30-25
South Dakota (DW)	State	CA11320	06-18-27
Tennessee	State	TN02839	06-18-26
Texas	NELAP	T104704230	09-30-26
USEPA UCMR 5	US Federal Programs	CA00006	12-31-25
Utah	NELAP	CA00006	01-31-26
Vermont	State	VT-0114	12-28-25
Virginia	NELAP	460260	06-14-26
Washington	State	C838	03-13-26
Wyoming	State	8-TMS-L	06-18-27

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

Eurofins Washington

Accreditation/Certification and Definitions Summary

Client: NW Natural Water Services, LLC
Project/Site: Shirona 78373F

Job ID: 110-2372-1

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
MRL	Method Reporting 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
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Eurofins Washington

Method Summary

Client: NW Natural Water Services, LLC
Project/Site: Shirona 78373F

Job ID: 110-2372-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency

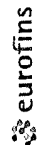
Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100



Phone 360-757-1400 Fax: 360-999-9999

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: Eurofins Eaton Analytical Address: 941 Corporate Center Drive, City: Pomona State, Zip: CA, 91768-2642 Phone: 626-386-1100(Tel) Email: N/A Project Name: Shirona 78373F Site: N/A				Lab PM: Deighton Crystal E-Mail: Crystal.Deighton@eurofins.com Carrier Tracking No(s): N/A State of Origin: Washington Job #: 110-2372-1 Preservation Codes:	
Due Date Requested: 10/9/2025 TAT Requested (days): N/A PO #: N/A WO #: N/A Project #: 11000347 SOW#: N/A				Analysis Requested 53/533 Prep533 PFA5 (FRB) (Hold) 53/533 Prep533 PFA5 Perform MS/MSD (Yes or No) Field Filled Sample (Yes or No)	
Sample Identification - Client ID (Lab ID) Shirona Water System (110-2372-1) Shirona Water System (110-2372-1FRB)		Sample Date 9/29/25 9/29/25	Sample Time 11:20 Pacific 11:20 Pacific	Sample Type (C=comp, G=grab) G G	Matrix (Water, Spill, Other) Drinking Water Drinking Water
Special Instructions/Note Total Number of Containers 3 1 FRB					

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

Special Instructions/QC Requirements:

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished I: 9/30/25 1330 jmc Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal Intact: A Yes A No
 Custody Seal No. 6182/3.7-3 7 105/197
 Cooler Temperature(s) °C and Other Remarks: