

WASHINGTON STATE DEPARTMENT OF HEALTH

Evaluation of PFAS in Washington Shellfish and Crab Tissue



DECEMBER 2024



DOH 334-572 December 2024

To request this document in another format, call 1-800-525-0127. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email doh.information@doh.wa.gov.

Table of Contents

Executive Summary.....	1
Introduction	2
Methods.....	3
Results.....	5
Conclusion	7
References.....	9
Appendix A: Analytical Reports	10

NOTE/ACKNOWLEDGEMENTS: This work was funded by an Environmental Protection Agency Multipurpose Grant (MPG). The Washington State Department of Health Site Assessment and Toxicology section thanks the DOH Shellfish Program, the Washington Department of Fish and Wildlife, the Washington Department of Natural Resources, The Swinomish Tribe, and Whatcom County Health and Community Services for providing sampling support and expertise to this project. We specifically thank Jerry Borchert for his contributions in coordinating efforts between the Shellfish and Toxicology sections.

Executive Summary

Per- and polyfluoroalkyl substances (PFAS) have been observed in freshwater finfish throughout Washington state. In some places perfluorooctane sulfonate (PFOS) concentrations in fish tissue at levels of concern to human health have resulted in fish consumption advisories. However, little is known about the incidence of PFAS in Puget Sound shellfish and crab.

This investigation measured PFAS concentrations in shellfish and crab species from select locations in Puget Sound to generate baseline data that may inform future fish consumption guidelines and sampling decisions. The results are compared to the current PFOS fish consumption advisory for lakes Meridian, Sammamish, and Washington and the FDA's PFAS in seafood analytical results.

All species and locations except for varnish clams at Squalicum creek and Dungeness crab in Penn Cove were below the MDLs for all PFAS analyzed. Therefore, DOH concludes that the PFAS exposure risk due to shellfish and Dungeness crab consumption from the Puget Sound to be low. One could consume 23 eight-ounce meals of varnish clams from the mouth of Squalicum creek per month before exposure would exceed DOH recommendations for dietary intake. Dungeness crab from Penn Cove had quantifiable concentrations of perfluorooctane sulfonamide (PFOSA), however, there are no human health protective values for PFOSA and therefore it is not possible to place these results within a human health context.

DOH encourages all Washingtonians to eat at least eight to twelve ounces of fish per week in accordance with The Dietary Guidelines for Americans (2020). People may eat more than this amount of fish weekly; however frequent consumers should consider taking steps to reduce exposure to contaminants in the fish that they eat. Some general guidance is as follows:

- Eat a variety of fish that are low in contaminants according to guidance provided by DOH (<http://www.doh.wa.gov/fish/>) and local health agencies.
- If consuming self-caught fish: consume younger, smaller fish (within legal limits). These fish typically contain lower levels of accumulative contaminants than older, larger fish.
- When cleaning fish, remove the skin, fat, and internal organs before cooking; this will help to reduce the amount of some contaminants.
- Grill, bake, or broil fish so that fat drips off while cooking. (advice is for fat stored contaminants like PCBs)
- Young children and small adults should eat proportionally smaller meal sizes (Table 2).

Introduction

Per- and polyfluoroalkyl substances (PFAS) have emerged as a global environmental and public health challenge, with significant implications for ecosystem and human health (Ecology 2021). This anthropogenic chemical class contains members that have been shown to be both persistent and bioaccumulative in the environment (Ecology 2021). PFAS have been widely used in industrial and consumer products for decades due to their hydro and lipophobic properties: with uses ranging from oil and water-repellent coatings to aqueous film-forming foam (AFFF) (Ecology 2021). Their ubiquitous use now results in environmental impacts as these substances accumulate in ecological systems.

Recent monitoring efforts in Washington State have detected PFAS across various environmental matrices, including surface waters, groundwater, wastewater treatment plant (WWTP) effluent, and both freshwater and marine environments (Ecology 2017 and 2021). Freshwater finfish have been observed with perfluorooctane sulfonate (PFOS) concentrations at levels of concern to human health and fish consumption advisories have been issued for several waterbodies (Ecology 2022, DOH 2022). Puget Sound monitoring data has shown low but detectable PFAS concentrations in select marine species. In 2023 DOH published a report on the evaluation of PFAS in commercial fish tissue to understand human health risk of consuming the top ten most purchased fish from grocery stores, however, that study did not include any crab or shellfish species (DOH 2023a).

Human health concerns for PFAS are substantiated by adverse effects observed in laboratory animal studies and epidemiological evidence. The most recent assessments by the Environmental Protection Agency (EPA) and the Agency for Toxic Substances and Disease Registry (ATSDR) have highlighted multiple systemic health impacts across various biological systems (EPA 2024, ATSDR 2021). Experimental animal studies have shown reproductive, liver, immune, testicular, and thyroid toxicity and endocrine disruption (DOH 2021). Epidemiological research has also identified human health associations of reduced fetal growth, reduced immune response to vaccines, higher serum cholesterol and liver enzymes, and increased incidence of kidney and testicular cancer (DOH 2021). Although PFOS and some other PFAS have been removed from commerce in the United States, others remain, and the persistent nature of these compounds continues to present ongoing environmental and public health challenges (Ecology 2021).

Data on crab and shellfish in the Puget Sound are limited. Caged mussels deployed seasonally have returned few detectable PFAS concentrations. Recently, the Food and Drug Administration (FDA) identified canned shellfish and crab, primarily from China, to be high in certain PFAS indicating the potential for PFAS to bioaccumulate within crab and shellfish species (FDA 2022). Due to the limitations in data availability and the evidence for accumulation within species more information is needed to evaluate human health risk and provide guidance. Further the Washington State Department of Health is tasked with regulating shellfish both recreationally and commercially. Therefore, understanding PFAS contamination incidence in the Puget Sound will be helpful to keeping people safe when recreationally consuming shellfish and provide the industry with some baseline data.

This investigation measured PFAS concentrations in shellfish and crab species throughout Puget Sound

using EPA method 1633. A targeted sampling approach was employed so the investigation could generate baseline data that may inform future fish consumption guidelines and sampling decisions. The results allow the DOH Shellfish staff and other partners to understand what current PFAS concentrations in shellfish may be throughout the Puget Sound and help frame what level of follow up sampling may be necessary.

Methods

Sampling sites were selected based on locations with known contamination sources, areas with suspected contamination, and/or areas where people may recreationally harvest shellfish regardless of formal status (i.e. open or closed). Primary sampling locations were distributed throughout the Sound (Figure 1).

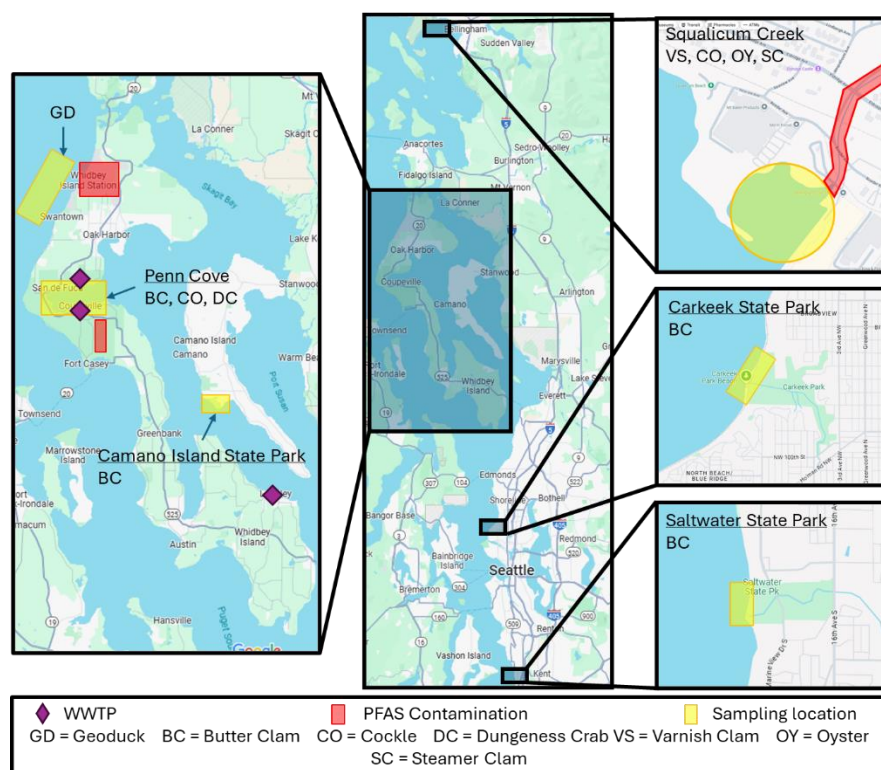


Figure 1. Sampling locations and species collected from each location.

From North to South: The mouth of Squalicum creek was selected due to recently identified PFAS surface water contamination within approximately one and a half miles of the sampling location. The Squalicum creek sampling location is also a secure access private property in an industrialized area of Bellingham WA. Squalicum creek surface water concentrations upstream were 360 ng/L total PFAS and foam concentrations were 31 µg/L total PFAS. Locations within Penn Cove on Whidbey Island were selected due to historical AFFF releases nearby, documented PFAS groundwater contamination, potential WWTP effluent impacts, and community concerns. Point Partridge, on the west side of Whidbey Island, is near established geoduck tracts and to the North is a formerly used outfall which

may have historically discharged water contaminated with PFAS. Camano Island State Park was included as a relatively remote site to provide comparative data from a less developed area. To assess the impact of urban development, sampling sites were established at Carkeek Park and Saltwater State Park, which serve as urban beach access and are known locations where recreational shellfish harvest occurs despite closure due to pollution.

Species collected are commonly harvested recreationally and were of convenience at each site: butter clam, manila and littleneck (steamer) clam, varnish clam, cockles, pacific oyster, Dungeness crab, and geoduck. All specimens collected were of legal harvest size to ensure relevance to recreational harvesting practices. During field collection, samples were collected whole in shell, separated by species, and stored in plastic bags on ice during transit to the DOH prep lab. Upon arrival at the DOH prep lab samples were stored at -20°C until shucking.

To account for natural variability and minimize sampling costs while maximizing information, composite samples were used. Composite samples were prepared by minimally thawing shellfish, separating the tissue from the shell, and placing the tissue into a plastic bag. For geoduck, the meat was subsampled using a disposable stainless-steel blade at the request of the analytical lab and was separated from the gut ball, the gut ball and meat were composited separately. Similarly, for Dungeness crab the meat and hepatopancreas were composited separately. When encountered, sediment inside the shells of clams and oysters was physically removed by hand to the extent possible to avoid potential confounding of results due to sediment.

At least three composite samples were prepared for each species at each sampling location except for butter clams from Camano Island State Park, geoduck from Point Partridge, and Dungeness crab from Penn Cove where sampling was limited. The number of individual specimens required for each composite sample varied by species to ensure adequate tissue mass for analysis. Pacific oyster, cockles and butter clam composites contained four to eight individuals, steamer and varnish clam composites required 20-30 individuals. Geoduck composites included two individuals except for one location where only a single individual was collected and the Dungeness crab composite contained three individuals. Composite samples were labeled, double bagged, and shipped frozen on ice to Enthalpy Analytical, LLC (Enthalpy) per their instructions for homogenization and analysis.

Homogenization was performed by Enthalpy according to their standard operating procedures. Analysis was conducted by Enthalpy using EPA method 1633. All samples were processed and analyzed using established laboratory procedures and quality assurance objectives. Each analytical batch included ongoing performance and recovery samples, matrix spike samples with duplicates (MS/MSD), and method blanks. Matrix spike recovery targets ranged from 40-150%, surrogate standard recoveries ranged from 20-150%, and the reporting limit (RL) for most compounds ranged from approximately 0.50 to 2.00 ng/g, with some compounds requiring higher quantitation limits between 5.00 to 15.00 ng/g. Comprehensive details for the entire analysis are available in Appendix A.

Detailed methods for the derivation of fish tissue screening levels are discussed in DOHs Fish Advisory Evaluation: PFOS in Fish from Lakes Meridian, Sammamish, and Washington (DOH 2022) and DOHs

Fish Tissue Data Evaluation Procedure (DOH 2023b). Briefly, DOH derived the non-cancer health protective screening value for PFOS in fish tissue as follows:

$$\text{Screening Level (SLnc)} = \frac{RfD \times BW \times UCF}{CR} \times RSC$$

Using a PFOS reference dose (RfD) of 3×10^{-6} mg/kg-day, from the current State Action Level (2021) in drinking water based on Dong et. al. 2011; consumption rates of 23 meals per month, one meal is defined as one 8-oz serving (6-oz. cooked), a bodyweight of 70 kg; and a relative source contribution (RSC) of 0.5. Yielding a PFOS fish tissue screening level of 0.6 µg/kg.

Results

Analysis of shellfish tissue samples across all locations revealed limited PFAS detection (Table 1 and Appendix A), with positive results confined to two areas: Squalicum Creek and Penn Cove. Of the 40 PFAS compounds analyzed, only two compounds - PFOS and perfluorooctane sulfonamide (PFOSA) - were quantified above the RL.

At Squalicum Creek varnish clams showed consistent low-level PFOS contamination across the five composite samples analyzed with concentrations ranging from no detection(< 0.361 µg/kg) to 0.692 µg/kg wet weight. The average concentration was 0.59 µg/kg wet weight. DOH guidance allows for inclusion of non-detect data depending on the assessment. In this case, as PFOS was observed in four of the five varnish clam samples the detection limit (0.361 µg/kg) was substituted for the non-detect sample in determining mean PFOS concentration rather than omitting the sample. None of the other species analyzed (i.e. cockles, oysters, and steamer clams) had PFAS concentrations above the method detection limit (MDL) at Squalicum creek. The varnish clams were harvested approximately 25 meters from the mouth of the creek whereas the other species were harvested deeper into the embayment 100 – 250 meters away. It is possible that this spatial relationship explains the concentrations in varnish clams rather than a species-specific mechanism, but further study is needed. At Penn Cove Dungeness crab meat contained 0.83 µg/kg wet weight PFOSA and there were no detections in the hepatopancreas. This was the only composite sample of crab in the study and should be considered as exploratory. All other sampling locations and species combinations showed no detectable concentrations of any PFAS compounds above the MDLs.

Table 1. Results for PFOS and PFOSA. All other analytes in Appendix A.

Sample Code	Location	Species	µg/kg ww (ppb)*	
			PFOS	PFOSA
SC-CO-01	Squalicum Creek	Cockle	ND	ND
SC-CO-02	Squalicum Creek	Cockle	ND	ND
SC-CO-03	Squalicum Creek	Cockle	ND	ND
SC-CO-04	Squalicum Creek	Cockle	ND	ND
SC-OY-01	Squalicum Creek	Oyster	ND	ND
SC-OY-02	Squalicum Creek	Oyster	ND	ND
SC-OY-02 MS	Squalicum Creek	Oyster	118%	85.2%
SC-OY-02 MSD	Squalicum Creek	Oyster	108%	87.3%
SC-OY-03	Squalicum Creek	Oyster	ND	ND
SC-OY-04	Squalicum Creek	Oyster	ND	ND
SC-OY-05	Squalicum Creek	Oyster	ND	ND
SC-VS-01	Squalicum Creek	Varnish Clam	0.594	ND
SC-VS-02	Squalicum Creek	Varnish Clam	0.655	ND
SC-VS-03	Squalicum Creek	Varnish Clam	0.692	ND
SC-VS-04	Squalicum Creek	Varnish Clam	0.616	ND
SC-VS-05	Squalicum Creek	Varnish Clam	ND	ND
SC-MC-01	Squalicum Creek	Steamer Clam	ND	ND
SC-MC-02	Squalicum Creek	Steamer Clam	ND	ND
SC-MC-03	Squalicum Creek	Steamer Clam	ND	ND
SC-MC-04	Squalicum Creek	Steamer Clam	ND	ND
SC-MC-05	Squalicum Creek	Steamer Clam	ND	ND
PCK-BC-01	Penn Cove (Kennedy Lagoon)	Butter clam	ND	ND
PCK-BC-02	Penn Cove (Kennedy Lagoon)	Butter clam	ND	ND
PCK-BC-02 MS	Penn Cove (Grassers Lagoon)	Butter clam	83.8%	102%
PCK-BC-02 MSD	Penn Cove (Grassers Lagoon)	Butter clam	89.2%	99.9%
PCK-BC-03	Penn Cove (Kennedy Lagoon)	Butter clam	ND	ND
PCK-CO-01	Penn Cove (Kennedy Lagoon)	Cockle	ND	ND
PCK-CO-02	Penn Cove (Kennedy Lagoon)	Cockle	ND	ND
PCK-CO-03	Penn Cove (Kennedy Lagoon)	Cockle	ND	ND
PCG-BC-01	Penn Cove (Grassers Lagoon)	Butter clam	ND	ND
PCG-BC-02	Penn Cove (Grassers Lagoon)	Butter clam	ND	ND
PCG-BC-03	Penn Cove (Grassers Lagoon)	Butter clam	ND	ND
PCG-CO-01	Penn Cove (Grassers Lagoon)	Cockle	ND	ND
PCG-CO-02	Penn Cove (Grassers Lagoon)	Cockle	ND	ND
PCG-CO-03	Penn Cove (Grassers Lagoon)	Cockle	ND	ND
PP-GM-01	Point Partridge	Geoduck Meat	ND	ND
PP-GM-02	Point Partridge	Geoduck Meat	ND	ND
PP-GM-03	Point Partridge	Geoduck Meat	ND	ND
PP-GM-04	Point Partridge	Geoduck Meat	ND	ND
PP-GB-01	Point Partridge	Geoduck Gutball	ND	ND
PP-GB-02	Point Partridge	Geoduck Gutball	ND	ND
PP-GB-03	Point Partridge	Geoduck Gutball	ND	ND
PP-GB-04	Point Partridge	Geoduck Gutball	ND	ND
PC-DM-01	Penn Cove	Dungeness Meat	ND	0.827
PC-DH-01	Penn Cove	Dungeness Hepatopancreas	ND	ND
CSP-BC-01	Camano Island State Park	Butter clam	ND	ND
CAR-BC-01	Carkeek Park	Butter clam	ND	ND
CAR-BC-02	Carkeek Park	Butter clam	ND	ND
CAR-BC-03	Carkeek Park	Butter clam	ND	ND
CAR-BC-04	Carkeek Park	Butter clam	ND	ND
SSP-BC-01	Saltwater State Park	Butter clam	ND	ND
SSP-BC-02	Saltwater State Park	Butter clam	ND	ND
SSP-BC-03	Saltwater State Park	Butter clam	ND	ND
SSP-BC-03 MS	Saltwater State Park	Butter clam	107%	114%
SSP-BC-03 MSD	Saltwater State Park	Butter clam	106%	111%
SSP-BC-04	Saltwater State Park	Butter clam	ND	ND

*Micrograms of contaminant per kg fish tissue wet weight. Percents are percent recovery of analyte for matrix spike and matrix spike duplicate

The concentrations observed in this study can be contextualized against the current Washington state fish consumption advisory for PFOS and the FDA assessment of PFAS in commercial seafood (FDA 2022). The current Washington state fish consumption advisory for PFOS covers only freshwater finfish in three urban lakes and PFOS concentrations in fish tissue from that evaluation ranged from 1.1 to 93.8 µg/kg. While not directly translatable it can be stated that it is likely shell fishing and crabbing from legally open, non-urban locations provides a safer choice for those consuming local fish compared to advisory areas. The FDA assessment provides a more direct comparison and indicated that canned clams from China contained PFOS concentrations from 0.19 to 1.2 µg/kg and PFOA concentrations from 2.9 to 20.1 µg/kg. Crab meat from Indonesia and Mexico contained PFOS concentrations from below detection to 0.34 µg/kg and PFOA concentrations from 0.09 to 0.51 µg/kg. The FDA's study did not evaluate PFOSA. However, of the PFAS in common between the FDA study and this study; the PFAS concentrations in clams and crab from the FDA study were higher than the levels detected in our Puget Sound samples. Notably PFOA concentrations which were not detected in Puget Sound samples but were the highest PFAS concentration observed in the FDA sampling. At this point it cannot be determined if this is due to processing methods (e.g. canning or bagging for retail) or geographic differences.

Conclusion

All species and locations except for varnish clams at Squalicum creek and Dungeness crab in Penn Cove were below the MDLs for all PFAS analyzed, therefore, DOH concludes that the PFAS exposure risk due to shellfish and Dungeness crab consumption from the Puget Sound to be low. The detected concentrations of PFOS in varnish clams from Squalicum creek are approximately equivalent to the current PFOS screening level (0.6 µg/kg) and below the level at which a fish consumption advisory would be issued (1.8 µg/kg). Relating these findings to 8-ounce meals, one could consume 23 meals of varnish clams from the mouth of Squalicum creek per month before exposure would exceed DOH recommendations for dietary intake.

Currently there are no human health protective values for PFOSA and therefore it is not possible to place the results of Dungeness crab withing a human health context. However, when compared to PFOS, the concentration in Dungeness crab is between the screening and fish consumption advisory levels and as such should be further evaluated. DOH would recommend that in the next Dungeness crab tissue evaluation in the Puget Sound that PFAS are included in the analysis.

DOH encourages all Washingtonians to eat at least eight to twelve ounces of fish per week in accordance with The Dietary Guidelines for Americans (2020). People may eat more than this amount of fish weekly; however frequent consumers should consider taking steps to reduce exposure to contaminants in the fish that they eat. Some general guidance is as follows:

- Eat a variety of fish that are low in contaminants according to guidance provided by DOH (<http://www.doh.wa.gov/fish/>) and local health agencies.
- If consuming self-caught fish: consume younger, smaller fish (within legal limits). These fish

typically contain lower levels of accumulative contaminants than older, larger fish.

- When cleaning fish, remove the skin, fat, and internal organs before cooking; this will help to reduce the amount of some contaminants.
- Grill, bake, or broil fish so that fat drips off while cooking. (advice is for fat stored contaminants like PCBs)
- Young children and small adults should eat proportionally smaller meal sizes (Table 2).

Table 2. Adjustment of fish meal size based on the body weight of the consumer.

Weight (lbs)	Mass (kg)	Meal Size (oz)	Meal Size (g)
19	9	1	28
39	18	2	57
58	26	3	85
77	35	4	113
96	44	5	142
116	53	6	170
135	61	7	199
154	70	8	227
173	79	9	255
193	88	10	284
212	96	11	312
231	105	12	340
250	113	13	369
270	123	14	397
289	131	15	425
308	140	16	454

References

1. ATSDR 2021. Toxicological Profile for Perfluoroalkyls. May 2021. U.S. Department of Health and Human Services, Agency for Toxic Substances and Disease Registry.
https://www.atsdr.cdc.gov/sites/peer_review/tox_profile_perfluoroalkyls.html
2. Dietary Guidelines Advisory Committee. 2020. Scientific Report of the 2020 Dietary Guidelines Advisory Committee: Advisory Report to the Secretary of Agriculture and the Secretary of Health and Human Services. U.S. Department of Agriculture, Agricultural Research Service, Washington, DC.
3. DOH 2021. Recommended State Action Levels for Per- and Polyfluoroalkyl Substances (PFAS) in Drinking Water: Approach, Methods, and Supporting Information. Publication no. 331-673.
<https://doh.wa.gov/sites/default/files/2022-02/331-673.pdf>
4. DOH 2022. Fish Advisory Evaluation: PFOS in Fish from Lakes Meridian, Sammamish, and Washington. Publication no. 334-470. <https://doh.wa.gov/sites/default/files/2022-12/334-470.pdf>
5. DOH 2023a. Final Report: Evaluation of PFAS in Commercial Fish Tissue. Publication no. 334-487. <https://doh.wa.gov/sites/default/files/2023-03/334-487.pdf>
6. DOH 2023b. Fish Tissue Data Evaluation Procedure. Publication no. 334-531.
7. Dong GH, Liu MM, Wang D, Zheng L, Liang ZF, Jin YH. 2011. Sub-chronic effects of perfluorooctanesulfonate (PFOS) on the balance of type 1 and type 2 cytokine in adult C57BL6 mice. Archives of toxicology, 85(10), 1235-1244.
8. Ecology and DOH 2021. Per- and Polyfluoroalkyl Substances Chemical Action Plan. Publication 21-04-048. Olympia, Washington
<https://apps.ecology.wa.gov/publications/documents/2104048.pdf>
9. FDA 2022. Analytical Results for PFAS in 2022 Seafood Survey (Parts Per Trillion).
<https://www.fda.gov/media/159570/download>

Appendix A: Analytical Report

Page intentionally left blank



September 17, 2024

**Enthalpy Analytical - El Dorado Hills
Work Order No. 2408100**

Mr Emerson Christie
Washington State Department of Health
111 Israel Road S.E.
Tumwater, WA 98501

Dear Mr Christie,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on August 15, 2024 under your Project Name 'SHELLFISH PFAS'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at emilyuebelhoer@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

A handwritten signature in black ink that reads 'Emily Uebelhoer'.

Emily Uebelhoer
Project Manager

Enthalpy Analytical - EDH certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Enthalpy Analytical - EDH.

Enthalpy Analytical - EDH Work Order No. 2408100

Case Narrative

Sample Condition on Receipt:

Nineteen tissue samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received outside of hold time, in good condition and within the method temperature requirements.

Analytical Notes:

EPA Method 1633 (Tissue)

The samples were extracted and analyzed for a selected list of PFAS using EPA Method 1633. The results for PFHxS, PFOA, PFOSA, PFOS, PFNA, MeFOSAA, EtFOSAA, MeFOSE, EtFOSE, EtFOSE include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted outside of hold time. Samples were analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank, Ongoing Precision and Recovery (OPR) sample, and Low-Level OPR sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

As requested, an MS/MSD was performed on sample SC-OY-02. The MS/MSD recoveries and RPDs were within acceptance criteria, except for PFDoS which is flagged with a "Q" qualifier.

The labeled standard recoveries outside the acceptance criteria are flagged with an "Q" qualifier. The responses of the internal standards with low recoveries were greater than 10:1 signal-to-noise, which is the limit generally considered acceptable for accurate quantitation by isotope dilution analysis.

TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	52
Certifications.....	53
Sample Receipt.....	54

Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2408100-01	SC-CO-01	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-02	SC-CO-02	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-03	SC-CO-03	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-04	SC-CO-04	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-05	SC-OY-01	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-06	SC-OY-02	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-07	SC-OY-03	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-08	SC-OY-04	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-09	SC-OY-05	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-10	SC-VS-01	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-11	SC-VS-02	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-12	SC-VS-03	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-13	SC-VS-04	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-14	SC-VS-05	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-15	SC-MC-01	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-16	SC-MC-02	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-17	SC-MC-03	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-18	SC-MC-04	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag
2408100-19	SC-MC-05	09-May-24 00:00	15-Aug-24 07:20	Plastic Bag

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Matrix: Tissue					Laboratory Data Lab Sample: B24H163-BLK1 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.625	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFMPA	ND	0.459	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
3:3 FTCA	ND	1.28	2.50		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFPeA	ND	0.359	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFMBA	ND	0.402	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFBS	ND	0.218	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
4:2 FTS	ND	0.994	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFHxA	ND	0.179	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFEESA	ND	0.271	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFPeS	ND	0.240	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
HFPO-DA	ND	0.923	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
NFDHA	ND	0.371	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
5:3 FTCA	ND	3.97	15.0		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFHpA	ND	0.168	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
ADONA	ND	0.572	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFHxS	ND	0.269	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
6:2 FTS	ND	0.777	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFOA	ND	0.191	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFHpS	ND	0.158	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
7:3 FTCA	ND	4.87	15.0		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFNA	ND	0.183	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFOSA	ND	0.199	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFOS	ND	0.370	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
9Cl-PF3ONS	ND	0.658	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFDA	ND	0.173	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
8:2 FTS	ND	0.978	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFNS	ND	0.220	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
MeFOSAA	ND	0.326	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
EtFOSAA	ND	0.280	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFOA	ND	0.135	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFDS	ND	0.262	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
11Cl-PF3OUdS	ND	0.890	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFDoA	ND	0.144	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
MeFOSA	ND	0.256	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFTTrDA	ND	0.178	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFDoS	ND	0.207	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
PFTeDA	ND	0.162	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
EtFOSA	ND	0.311	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1

Sample ID: Method Blank					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24H163-BLK1		Column:	BEH C18
Project:	SHELLFISH PFAS								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSE	ND	1.70	5.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
EtFOSE	ND	2.06	5.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	87.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C5-PFPeA	IS	74.9	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C2-4:2 FTS	IS	91.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C3-PFBS	IS	104	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C5-PFHxA	IS	94.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C4-PFHpA	IS	79.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C3-HFPO-DA	IS	79.3	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C2-6:2 FTS	IS	85.9	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C8-PFOA	IS	128	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C3-PFHxS	IS	112	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C9-PFNA	IS	93.5	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C2-8:2 FTS	IS	127	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C6-PFDA	IS	95.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
d3-MeFOSAA	IS	81.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C8-PFOS	IS	77.9	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
d5-EtFOSAA	IS	81.5	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C7-PFUnA	IS	79.5	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C8-PFOSA	IS	84.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C2-PFDoA	IS	76.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
13C2-PFTeDA	IS	93.8	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
d7-MeFOSE	IS	62.5	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
d3-MeFOSA	IS	43.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
d9-EtFOSE	IS	24.4	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1
d5-EtFOSA	IS	57.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:22	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24H163-BS1	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	5.90	5.00	118	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFMPA	3.00	2.50	120	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
3:3 FTCA	6.34	6.25	102	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFPeA	3.15	2.50	126	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFMBA	3.00	2.50	120	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFBS	1.02	1.11	92.2	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
4:2 FTS	5.81	4.69	124	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFHxA	1.16	1.25	92.7	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFEESA	1.94	2.22	87.4	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFPeS	0.940	1.18	79.7	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
HFPO-DA	5.81	5.29	110	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
NFDHA	2.20	2.50	88.0	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
5:3 FTCA	26.8	31.2	85.9	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFHpA	1.38	1.25	110	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
ADONA	5.23	5.00	105	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFHxS	1.00	1.14	87.8	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
6:2 FTS	5.68	4.75	120	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFOA	1.35	1.25	108	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFHpS	1.49	1.19	125	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
7:3 FTCA	23.0	31.2	73.8	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFNA	1.41	1.25	113	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFOSA	1.17	1.25	93.4	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFOS	1.49	1.16	129	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
9Cl-PF3ONS	5.23	4.95	106	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFDA	1.24	1.25	99.5	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
8:2 FTS	5.49	4.80	114	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFNS	1.09	1.20	90.7	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
MeFOSAA	1.53	1.25	123	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
EtFOSAA	1.32	1.25	106	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFUnA	1.36	1.25	109	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFDS	1.03	1.21	85.0	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
11Cl-PF3OUdS	3.99	5.00	79.7	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFDaA	1.39	1.25	111	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
MeFOSA	1.25	1.25	100	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24H163-BS1	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTTrDA	1.20	1.25	96.0	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFDoS	0.844	1.21	69.8	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
PFTeDA	1.37	1.25	110	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
EtFOSA	1.29	1.25	103	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
MeFOSE	13.6	12.5	109	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
EtFOSE	18.0	12.5	144	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS		84.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C5-PFPeA	IS		76.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C2-4:2 FTS	IS		87.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C3-PFBS	IS		97.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C5-PFHxA	IS		98.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C4-PFHpA	IS		81.8	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C3-HFPO-DA	IS		80.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C2-6:2 FTS	IS		89.3	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C8-PFOA	IS		101	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C3-PFHxS	IS		108	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C9-PFNA	IS		93.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C2-8:2 FTS	IS		111	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C6-PFDA	IS		93.8	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
d3-MeFOSAA	IS		73.3	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C8-PFOS	IS		72.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
d5-EtFOSAA	IS		68.1	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C7-PFUnA	IS		69.1	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C8-PFOSA	IS		72.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C2-PFDoA	IS		50.4	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
13C2-PFTeDA	IS		63.3	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
d7-MeFOSE	IS		48.9	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
d3-MeFOSA	IS		36.8	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
d9-EtFOSE	IS		29.4	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1
d5-EtFOSA	IS		40.4	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:36	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24H163-BS2	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	4.46	4.00	111	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFMPA	2.30	2.00	115	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
3:3 FTCA	5.02	5.00	100	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFPeA	2.44	2.00	122	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFMBA	2.36	2.00	118	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFBS	0.803	0.887	90.5	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
4:2 FTS	4.12	3.75	110	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFHxA	0.865	1.00	86.5	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFEESA	1.51	1.78	84.8	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFPeS	0.734	0.941	78.0	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
HFPO-DA	4.02	4.00	101	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
NFDHA	1.75	2.00	87.5	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
5:3 FTCA	20.5	25.0	81.8	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFHpA	1.07	1.00	107	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
ADONA	3.85	3.78	102	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFHxS	0.772	0.914	84.5	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
6:2 FTS	4.63	3.80	122	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFOA	1.00	1.00	100	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFHpS	1.05	0.953	110	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
7:3 FTCA	16.9	25.0	67.7	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFNA	1.19	1.00	119	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFOSA	0.867	1.00	86.7	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFOS	1.22	0.928	131	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
9Cl-PF3ONS	3.22	3.74	86.0	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFDA	0.929	1.00	92.9	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
8:2 FTS	3.94	3.84	103	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFNS	0.957	0.962	99.5	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
MeFOSAA	1.05	1.00	105	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
EtFOSAA	1.22	1.00	122	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFUnA	1.04	1.00	104	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFDS	0.910	0.965	94.3	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
11Cl-PF3OUdS	3.13	3.78	82.8	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFDaA	0.984	1.00	98.4	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
MeFOSA	0.933	1.00	93.3	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24H163-BS2	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTTrDA	0.991	1.00	99.1	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFDoS	0.804	0.970	82.9	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
PFTeDA	0.954	1.00	95.4	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
EtFOSA	1.12	1.00	112	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
MeFOSE	10.3	10.0	103	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
EtFOSE	11.3	10.0	113	40 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS		85.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C5-PFPeA	IS		76.8	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C2-4:2 FTS	IS		96.3	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C3-PFBS	IS		98.5	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C5-PFHxA	IS		99.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C4-PFHpA	IS		81.5	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C3-HFPO-DA	IS		79.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C2-6:2 FTS	IS		82.1	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C8-PFOA	IS		93.9	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C3-PFHxS	IS		105	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C9-PFNA	IS		78.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C2-8:2 FTS	IS		106	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C6-PFDA	IS		76.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
d3-MeFOSAA	IS		63.4	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C8-PFOS	IS		63.5	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
d5-EtFOSAA	IS		60.4	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C7-PFUnA	IS		60.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C8-PFOSA	IS		70.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C2-PFDoA	IS		55.9	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
13C2-PFTeDA	IS		70.3	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
d7-MeFOSE	IS		51.1	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
d3-MeFOSA	IS		42.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
d9-EtFOSE	IS		44.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1
d5-EtFOSA	IS		46.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 18:49	1

Sample ID: SC-CO-01					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: COCKLES					Laboratory Data Lab Sample: 2408100-01 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Matrix: Tissue Date Collected: 09-May-24 00:00									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFMPA	ND	0.452	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
3:3 FTCA	ND	1.26	2.46		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFPeA	ND	0.354	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFMBA	ND	0.396	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFBS	ND	0.215	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
4:2 FTS	ND	0.979	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFHxA	ND	0.176	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFEESA	ND	0.267	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFPeS	ND	0.236	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
HFPO-DA	ND	0.909	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
NFDHA	ND	0.366	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
5:3 FTCA	ND	3.91	14.8		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFHpA	ND	0.166	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
ADONA	ND	0.564	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFHxS	ND	0.265	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
6:2 FTS	ND	0.766	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFOA	ND	0.188	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFHpS	ND	0.156	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
7:3 FTCA	ND	4.80	14.8		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFNA	ND	0.180	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFOSA	ND	0.196	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFOS	ND	0.365	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
9Cl-PF3ONS	ND	0.648	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFDA	ND	0.170	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
8:2 FTS	ND	0.964	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFNS	ND	0.217	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
MeFOSAA	ND	0.321	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
EtFOSAA	ND	0.276	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFUnA	ND	0.133	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFDS	ND	0.258	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
11Cl-PF3OUdS	ND	0.877	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFDoA	ND	0.142	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
MeFOSA	ND	0.252	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFTTrDA	ND	0.175	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFDoS	ND	0.204	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
PFTeDA	ND	0.160	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1

Sample ID: SC-CO-01					EPA Method 1633				
Client Data					Laboratory Data				
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-01		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	COCKLES								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
MeFOSE	ND	1.67	4.93		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
EtFOSE	ND	2.03	4.93		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	85.6	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C5-PFPeA	IS	71.6	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C2-4:2 FTS	IS	152	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C3-PFBS	IS	103	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C5-PFHxA	IS	112	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C4-PFHpA	IS	81.2	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C3-HFPO-DA	IS	76.8	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C2-6:2 FTS	IS	109	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C8-PFOA	IS	95.2	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C3-PFHxS	IS	116	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C9-PFNA	IS	101	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C2-8:2 FTS	IS	179	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C6-PFDA	IS	109	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
d3-MeFOSAA	IS	65.3	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C8-PFOS	IS	59.7	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
d5-EtFOSAA	IS	60.8	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C7-PFUnA	IS	80.9	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C8-PFOSA	IS	29.2	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C2-PFDoA	IS	54.1	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
13C2-PFTeDA	IS	27.6	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
d7-MeFOSE	IS	17.0	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
d3-MeFOSA	IS	20.1	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
d9-EtFOSE	IS	17.6	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1
d5-EtFOSA	IS	18.9	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 19:30	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-CO-02					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: COCKLES					Laboratory Data Lab Sample: 2408100-02 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.619	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFMPA	ND	0.454	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
3:3 FTCA	ND	1.27	2.48		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFPeA	ND	0.355	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFMBA	ND	0.398	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFBS	ND	0.216	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
4:2 FTS	ND	0.984	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFHxA	ND	0.177	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFEESA	ND	0.268	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFPeS	ND	0.238	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
HFPO-DA	ND	0.914	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
NFDHA	ND	0.367	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
5:3 FTCA	ND	3.93	14.9		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFHpA	ND	0.166	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
ADONA	ND	0.566	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFHxS	ND	0.266	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
6:2 FTS	ND	0.769	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFOA	ND	0.189	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFHpS	ND	0.156	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
7:3 FTCA	ND	4.82	14.9		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFNA	ND	0.181	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFOSA	ND	0.197	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFOS	ND	0.366	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
9Cl-PF3ONS	ND	0.651	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFDA	ND	0.171	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
8:2 FTS	ND	0.968	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFNS	ND	0.218	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
MeFOSAA	ND	0.323	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
EtFOSAA	ND	0.277	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFUnA	ND	0.134	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFDS	ND	0.259	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
11Cl-PF3OUdS	ND	0.881	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFDoA	ND	0.143	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
MeFOSA	ND	0.253	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFTTrDA	ND	0.176	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFDoS	ND	0.205	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1
PFTeDA	ND	0.160	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1

Sample ID: SC-CO-02					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-02		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	COCKLES									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.308	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
MeFOSE	ND	1.68	4.95		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
EtFOSE	ND	2.04	4.95		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	85.6	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C5-PFPeA	IS	72.9	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C2-4:2 FTS	IS	170	20 - 150	Q	B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C3-PFBS	IS	106	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C5-PFHxA	IS	100	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C4-PFHpA	IS	77.2	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C3-HFPO-DA	IS	74.1	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C2-6:2 FTS	IS	115	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C8-PFOA	IS	111	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C3-PFHxS	IS	119	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C9-PFNA	IS	91.9	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C2-8:2 FTS	IS	162	20 - 150	Q	B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C6-PFDA	IS	94.0	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
d3-MeFOSAA	IS	58.1	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C8-PFOS	IS	55.2	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
d5-EtFOSAA	IS	54.4	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C7-PFUnA	IS	69.6	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C8-PFOSA	IS	43.2	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C2-PFDoA	IS	40.6	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
13C2-PFTeDA	IS	26.7	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
d7-MeFOSE	IS	24.0	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
d3-MeFOSA	IS	23.4	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
d9-EtFOSE	IS	20.9	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	
d5-EtFOSA	IS	18.7	20 - 150	Q	B24H163	22-Aug-24	2.02 g	27-Aug-24 19:44	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-CO-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2408100-03	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	COCKLES								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.622	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFMPA	ND	0.457	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
3:3 FTCA	ND	1.27	2.49		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFPeA	ND	0.357	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFMBA	ND	0.400	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFBS	ND	0.217	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
4:2 FTS	ND	0.989	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFHxA	ND	0.178	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFEESA	ND	0.270	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFPeS	ND	0.239	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
HFPO-DA	ND	0.918	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
NFDHA	ND	0.369	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
5:3 FTCA	ND	3.95	14.9		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFHpA	ND	0.167	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
ADONA	ND	0.569	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFHxS	ND	0.268	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
6:2 FTS	ND	0.773	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFOA	ND	0.190	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFHpS	ND	0.157	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
7:3 FTCA	ND	4.85	14.9		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFNA	ND	0.182	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFOSA	ND	0.198	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFOS	ND	0.368	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
9Cl-PF3ONS	ND	0.655	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFDA	ND	0.172	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
8:2 FTS	ND	0.973	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFNS	ND	0.219	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
MeFOSAA	ND	0.324	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
EtFOSAA	ND	0.279	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFUnA	ND	0.134	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFDS	ND	0.261	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
11Cl-PF3OUdS	ND	0.886	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFDoA	ND	0.143	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
MeFOSA	ND	0.255	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFTTrDA	ND	0.177	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFDoS	ND	0.206	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
PFTeDA	ND	0.161	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1

Sample ID: SC-CO-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-03		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	COCKLES								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.309	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
MeFOSE	ND	1.69	4.98		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
EtFOSE	ND	2.05	4.98		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	87.9	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C5-PFPeA	IS	76.3	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C2-4:2 FTS	IS	157	20 - 150	Q	B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C3-PFBS	IS	107	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C5-PFHxA	IS	106	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C4-PFHpA	IS	83.1	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C3-HFPO-DA	IS	81.8	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C2-6:2 FTS	IS	115	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C8-PFOA	IS	127	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C3-PFHxS	IS	115	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C9-PFNA	IS	94.3	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C2-8:2 FTS	IS	174	20 - 150	Q	B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C6-PFDA	IS	106	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
d3-MeFOSAA	IS	59.6	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C8-PFOS	IS	60.7	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
d5-EtFOSAA	IS	54.9	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C7-PFUnA	IS	76.9	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C8-PFOSA	IS	37.3	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C2-PFDoA	IS	39.6	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
13C2-PFTeDA	IS	25.7	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
d7-MeFOSE	IS	19.4	20 - 150	Q	B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
d3-MeFOSA	IS	21.7	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
d9-EtFOSE	IS	17.1	20 - 150	Q	B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1
d5-EtFOSA	IS	17.5	20 - 150	Q	B24H163	22-Aug-24	2.01 g	27-Aug-24 19:57	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-CO-04					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: COCKLES					Laboratory Data Lab Sample: 2408100-04 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Matrix: Tissue Date Collected: 09-May-24 00:00									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.625	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFMPA	ND	0.459	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
3:3 FTCA	ND	1.28	2.50		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFPeA	ND	0.359	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFMBA	ND	0.402	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFBS	ND	0.218	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
4:2 FTS	ND	0.994	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFHxA	ND	0.179	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFEESA	ND	0.271	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFPeS	ND	0.240	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
HFPO-DA	ND	0.923	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
NFDHA	ND	0.371	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
5:3 FTCA	ND	3.97	15.0		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFHpA	ND	0.168	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
ADONA	ND	0.572	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFHxS	ND	0.269	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
6:2 FTS	ND	0.777	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFOA	ND	0.191	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFHpS	ND	0.158	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
7:3 FTCA	ND	4.87	15.0		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFNA	ND	0.183	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFOSA	ND	0.199	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFOS	ND	0.370	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
9Cl-PF3ONS	ND	0.658	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFDA	ND	0.173	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
8:2 FTS	ND	0.978	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFNS	ND	0.220	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
MeFOSAA	ND	0.326	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
EtFOSAA	ND	0.280	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFOuA	ND	0.135	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFDS	ND	0.262	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
11Cl-PF3OUdS	ND	0.890	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFDoA	ND	0.144	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
MeFOSA	ND	0.256	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFTTrDA	ND	0.178	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFDoS	ND	0.207	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1
PFTeDA	ND	0.162	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1

Sample ID: SC-CO-04					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-04		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	COCKLES									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.311	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
MeFOSE	ND	1.70	5.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
EtFOSE	ND	2.06	5.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	87.9	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C5-PFPeA	IS	77.8	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C2-4:2 FTS	IS	148	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C3-PFBS	IS	117	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C5-PFHxA	IS	114	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C4-PFHpA	IS	85.9	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C3-HFPO-DA	IS	82.3	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C2-6:2 FTS	IS	123	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C8-PFOA	IS	117	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C3-PFHxS	IS	121	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C9-PFNA	IS	96.9	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C2-8:2 FTS	IS	181	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C6-PFDA	IS	105	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
d3-MeFOSAA	IS	61.5	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C8-PFOS	IS	61.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
d5-EtFOSAA	IS	58.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C7-PFUnA	IS	75.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C8-PFOSA	IS	24.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C2-PFDoA	IS	45.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
13C2-PFTeDA	IS	27.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
d7-MeFOSE	IS	14.6	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
d3-MeFOSA	IS	17.2	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
d9-EtFOSE	IS	15.5	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	
d5-EtFOSA	IS	15.7	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 20:11	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-OY-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2408100-05	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	OYSTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.613	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFMPA	ND	0.450	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
3:3 FTCA	ND	1.25	2.45		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFPeA	ND	0.352	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFMBA	ND	0.394	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFBS	ND	0.214	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
4:2 FTS	ND	0.975	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFHxA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFEESA	ND	0.266	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFPeS	ND	0.235	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
HFPO-DA	ND	0.905	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
NFDHA	ND	0.364	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
5:3 FTCA	ND	3.89	14.7		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFHpA	ND	0.165	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
ADONA	ND	0.561	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFHxS	ND	0.264	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
6:2 FTS	ND	0.762	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFOA	ND	0.187	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFHpS	ND	0.155	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
7:3 FTCA	ND	4.77	14.7		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFNA	ND	0.179	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFOSA	ND	0.195	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFOS	ND	0.363	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
9Cl-PF3ONS	ND	0.645	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFDA	ND	0.170	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
8:2 FTS	ND	0.959	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFNS	ND	0.216	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
MeFOSAA	ND	0.320	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
EtFOSAA	ND	0.275	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFUnA	ND	0.132	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFDS	ND	0.257	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
11Cl-PF3OUdS	ND	0.873	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFDoA	ND	0.141	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
MeFOSA	ND	0.251	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFTTrDA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFDoS	ND	0.203	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1
PFTeDA	ND	0.159	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1

Sample ID: SC-OY-01					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-05		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	OYSTER									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.305	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
MeFOSE	ND	1.67	4.90		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
EtFOSE	ND	2.02	4.90		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	87.3	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C5-PFPeA	IS	73.3	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C2-4:2 FTS	IS	171	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C3-PFBS	IS	110	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C5-PFHxA	IS	107	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C4-PFHpA	IS	82.3	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C3-HFPO-DA	IS	76.7	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C2-6:2 FTS	IS	160	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C8-PFOA	IS	116	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C3-PFHxS	IS	118	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C9-PFNA	IS	95.2	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C2-8:2 FTS	IS	216	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C6-PFDA	IS	108	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
d3-MeFOSAA	IS	77.9	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C8-PFOS	IS	87.6	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
d5-EtFOSAA	IS	73.6	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C7-PFUnA	IS	82.6	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C8-PFOSA	IS	55.3	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C2-PFDoA	IS	38.7	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
13C2-PFTeDA	IS	24.6	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
d7-MeFOSE	IS	18.5	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
d3-MeFOSA	IS	18.6	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
d9-EtFOSE	IS	15.8	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	
d5-EtFOSA	IS	15.1	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 20:24	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-OY-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2408100-06	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	OYSTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFMPA	ND	0.452	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
3:3 FTCA	ND	1.26	2.46		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFPeA	ND	0.354	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFMBA	ND	0.396	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFBS	ND	0.215	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
4:2 FTS	ND	0.979	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFHxA	ND	0.176	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFEESA	ND	0.267	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFPeS	ND	0.236	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
HFPO-DA	ND	0.909	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
NFDHA	ND	0.366	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
5:3 FTCA	ND	3.91	14.8		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFHpA	ND	0.166	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
ADONA	ND	0.564	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFHxS	ND	0.265	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
6:2 FTS	ND	0.766	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFOA	ND	0.188	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFHpS	ND	0.156	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
7:3 FTCA	ND	4.80	14.8		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFNA	ND	0.180	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFOSA	ND	0.196	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFOS	ND	0.365	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
9Cl-PF3ONS	ND	0.648	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFDA	ND	0.170	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
8:2 FTS	ND	0.964	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFNS	ND	0.217	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
MeFOSAA	ND	0.321	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
EtFOSAA	ND	0.276	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFUnA	ND	0.133	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFDS	ND	0.258	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
11Cl-PF3OUdS	ND	0.877	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFDoA	ND	0.142	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
MeFOSA	ND	0.252	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFTTrDA	ND	0.175	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFDoS	ND	0.204	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1
PFTeDA	ND	0.160	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1

Sample ID: SC-OY-02					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-06		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	OYSTER									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
MeFOSE	ND	1.67	4.93		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
EtFOSE	ND	2.03	4.93		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	89.2	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C5-PFPeA	IS	74.2	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C2-4:2 FTS	IS	131	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C3-PFBS	IS	103	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C5-PFHxA	IS	112	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C4-PFHpA	IS	82.1	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C3-HFPO-DA	IS	78.5	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C2-6:2 FTS	IS	144	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C8-PFOA	IS	110	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C3-PFHxS	IS	112	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C9-PFNA	IS	95.3	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C2-8:2 FTS	IS	195	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C6-PFDA	IS	105	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
d3-MeFOSAA	IS	54.7	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C8-PFOS	IS	88.6	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
d5-EtFOSAA	IS	49.7	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C7-PFUnA	IS	68.0	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C8-PFOSA	IS	15.2	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C2-PFDoA	IS	34.1	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
13C2-PFTeDA	IS	30.6	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
d7-MeFOSE	IS	9.08	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
d3-MeFOSA	IS	11.7	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
d9-EtFOSE	IS	11.1	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	
d5-EtFOSA	IS	12.5	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 20:38	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-OY-02
EPA Method 1633

Name:	Washington State Department of Health	Lab Sample:	B24H163-MS1/B24H163-MSD1	Source Lab Sample:	2408100-06
Project:	SHELLFISH PFAS	QC Batch:	B24H163	Date Extracted:	22-Aug-24
Matrix:	Tissue	Samp Size:	2.02/2.01 g	Column:	BEH C18

Analyte	Sample (ng/g)	MS (ng/g)	MS Spike	MS % Rec	MS Quals	MSD (ng/g)	MSD Spike	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBA	ND	5.54	4.95	112		5.62	4.98	113	0.889		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFMPA	ND	3.06	2.48	124		3.09	2.49	124	0		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
3:3 FTCA	ND	6.54	6.19	106		6.64	6.22	107	0.939		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFPeA	ND	3.13	2.48	126		3.23	2.49	130	3.13		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFMBA	ND	3.10	2.48	125		3.05	2.49	122	2.43		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFBS	ND	0.969	1.10	88.1		1.07	1.10	97.6	10.2		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
4:2 FTS	ND	4.99	4.64	108		4.99	4.67	107	0.93		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFHxA	ND	1.13	1.24	91.3		1.15	1.24	92.4	1.2		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFEESA	ND	1.81	2.20	82.1		1.86	2.21	84.1	2.41		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFPeS	ND	0.945	1.17	80.8		0.953	1.17	81.5	0.863		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
HFPO-DA	ND	5.39	5.24	103		5.83	5.26	111	7.48		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
NFDHA	ND	2.00	2.48	80.5		2.14	2.49	85.7	6.26		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
5:3 FTCA	ND	23.9	30.9	77.3		25.7	31.0	82.9	6.99		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFHpA	ND	1.38	1.24	111		1.34	1.24	108	2.74		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
ADONA	ND	5.26	4.95	106		5.35	4.98	107	0.939		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFHxS	ND	0.997	1.13	88.2		0.965	1.13	85.4	3.23		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
6:2 FTS	ND	5.22	4.70	111		5.18	4.73	110	0.905		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFOA	ND	1.29	1.24	104		1.31	1.24	105	0.957		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFHpS	ND	1.29	1.18	109		1.39	1.18	118	7.93		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
7:3 FTCA	ND	23.3	30.9	75.3		25.5	31.0	82.2	8.76		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFNA	ND	1.50	1.24	121		1.55	1.24	125	3.25		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFOSA	ND	1.13	1.24	85.2		1.16	1.24	87.3	2.43		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFOS	ND	1.35	1.15	118		1.25	1.15	108	8.85		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
9Cl-PF3ONS	ND	6.78	4.90	138		6.80	4.93	138	0		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFDA	ND	1.26	1.24	102		1.30	1.24	105	2.9		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
8:2 FTS	ND	5.16	4.75	109		4.98	4.78	104	4.69		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFNS	ND	1.23	1.19	103		1.17	1.19	98.3	4.67		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
MeFOSAA	ND	1.76	1.24	142		1.56	1.24	126	11.9		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
EtFOSAA	ND	1.25	1.24	101		1.41	1.24	114	12.1		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFUnA	ND	1.39	1.24	112		1.40	1.24	113	0.889		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFDS	ND	0.658	1.20	54.8		0.701	1.20	58.4	6.36		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
11Cl-PF3OUdS	ND	4.25	4.95	85.9		4.66	4.98	93.7	8.69		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFDaA	ND	1.28	1.24	103		1.32	1.24	107	3.81		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1

Sample ID: SC-OY-02
EPA Method 1633

Name:	Washington State Department of Health	Lab Sample:	B24H163-MS1/B24H163-MSD1	Source Lab Sample:	2408100-06
Project:	SHELLFISH PFAS	QC Batch:	B24H163	Date Extracted:	22-Aug-24
Matrix:	Tissue	Samp Size:	2.02/2.01 g	Column:	BEH C18

Analyte	Sample (ng/g)	MS (ng/g)	MS Spike	MS % Rec	MS Quals	MSD (ng/g)	MSD Spike	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
MeFOSA	ND	1.22	1.24	98.5		1.26	1.24	102	3.49		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFTTrDA	ND	1.02	1.24	81.9		1.07	1.24	86.4	5.35		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFDoS	ND	0.372	1.20	31.0	Q	0.428	1.20	35.7	14.1	Q	40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
PFTeDA	ND	1.43	1.24	115		1.22	1.24	98.1	15.9		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
EtFOSA	ND	1.28	1.24	103		1.27	1.24	103	0		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
MeFOSE	ND	13.5	12.4	109		13.8	12.4	111	1.82		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1
EtFOSE	ND	11.9	12.4	96.2		12.4	12.4	100	3.87		40-150	30	27-Aug-24 19:03	1	27-Aug-24 19:17	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C4-PFBA	IS	88.6		89.9		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C5-PFPeA	IS	72.0		76.7		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C2-4:2 FTS	IS	153	Q	167	Q	20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C3-PFBS	IS	107		105		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C5-PFHxA	IS	109		112		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C4-PFHpA	IS	75.2		81.4		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C3-HFPO-DA	IS	77.1		79.5		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C2-6:2 FTS	IS	146		153	Q	20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C8-PFOA	IS	105		108		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C3-PFHxS	IS	112		119		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C9-PFNA	IS	93.5		91.1		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C2-8:2 FTS	IS	195	Q	215	Q	20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C6-PFDA	IS	104		106		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
d3-MeFOSAA	IS	65.9		70.4		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C8-PFOS	IS	88.6		87.1		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
d5-EtFOSAA	IS	63.8		69.1		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C7-PFUnA	IS	74.7		78.3		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C8-PFOSA	IS	57.7		59.6		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C2-PFDoA	IS	38.4		43.9		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
13C2-PFTeDA	IS	24.0		32.0		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
d7-MeFOSE	IS	20.9		21.4		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
d3-MeFOSA	IS	18.3	Q	20.0		20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
d9-EtFOSE	IS	17.0	Q	17.9	Q	20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1
d5-EtFOSA	IS	15.9	Q	16.7	Q	20 - 150	27-Aug-24 19:03	1	27-Aug-24 19:17	1

Sample ID: SC-OY-03					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: OYSTER					Laboratory Data Lab Sample: 2408100-07 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.619	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFMPA	ND	0.454	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
3:3 FTCA	ND	1.27	2.48		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFPeA	ND	0.355	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFMBA	ND	0.398	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFBS	ND	0.216	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
4:2 FTS	ND	0.984	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFHxA	ND	0.177	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFEESA	ND	0.268	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFPeS	ND	0.238	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
HFPO-DA	ND	0.914	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
NFDHA	ND	0.367	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
5:3 FTCA	ND	3.93	14.9		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFHpA	ND	0.166	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
ADONA	ND	0.566	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFHxS	ND	0.266	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
6:2 FTS	ND	0.769	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFOA	ND	0.189	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFHpS	ND	0.156	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
7:3 FTCA	ND	4.82	14.9		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFNA	ND	0.181	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFOSA	ND	0.197	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFOS	ND	0.366	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
9Cl-PF3ONS	ND	0.651	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFDA	ND	0.171	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
8:2 FTS	ND	0.968	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFNS	ND	0.218	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
MeFOSAA	ND	0.323	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
EtFOSAA	ND	0.277	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFUnA	ND	0.134	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFDS	ND	0.259	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
11Cl-PF3OUdS	ND	0.881	1.98		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFDoA	ND	0.143	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
MeFOSA	ND	0.253	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFTTrDA	ND	0.176	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFDoS	ND	0.205	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
PFTeDA	ND	0.160	0.495		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1

Sample ID: SC-OY-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-07		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	OYSTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.308	0.990		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
MeFOSE	ND	1.68	4.95		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
EtFOSE	ND	2.04	4.95		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	84.9	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C5-PFPeA	IS	66.6	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C2-4:2 FTS	IS	130	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C3-PFBS	IS	110	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C5-PFHxA	IS	98.6	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C4-PFHpA	IS	73.6	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C3-HFPO-DA	IS	71.4	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C2-6:2 FTS	IS	145	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C8-PFOA	IS	105	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C3-PFHxS	IS	116	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C9-PFNA	IS	94.9	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C2-8:2 FTS	IS	206	20 - 150	Q	B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C6-PFDA	IS	105	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
d3-MeFOSAA	IS	66.1	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C8-PFOS	IS	89.2	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
d5-EtFOSAA	IS	60.3	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C7-PFUnA	IS	66.3	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C8-PFOSA	IS	9.69	20 - 150	Q	B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C2-PFDoA	IS	35.8	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
13C2-PFTeDA	IS	24.9	20 - 150		B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
d7-MeFOSE	IS	5.22	20 - 150	Q	B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
d3-MeFOSA	IS	8.03	20 - 150	Q	B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
d9-EtFOSE	IS	7.11	20 - 150	Q	B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1
d5-EtFOSA	IS	9.46	20 - 150	Q	B24H163	22-Aug-24	2.02 g	27-Aug-24 20:51	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-OY-04					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: OYSTER					Laboratory Data Lab Sample: 2408100-08 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFMPA	ND	0.452	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
3:3 FTCA	ND	1.26	2.46		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFPeA	ND	0.354	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFMBA	ND	0.396	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFBS	ND	0.215	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
4:2 FTS	ND	0.979	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFHxA	ND	0.176	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFEESA	ND	0.267	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFPeS	ND	0.236	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
HFPO-DA	ND	0.909	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
NFDHA	ND	0.366	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
5:3 FTCA	ND	3.91	14.8		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFHpA	ND	0.166	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
ADONA	ND	0.564	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFHxS	ND	0.265	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
6:2 FTS	ND	0.766	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFOA	ND	0.188	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFHpS	ND	0.156	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
7:3 FTCA	ND	4.80	14.8		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFNA	ND	0.180	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFOSA	ND	0.196	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFOS	ND	0.365	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
9Cl-PF3ONS	ND	0.648	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFDA	ND	0.170	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
8:2 FTS	ND	0.964	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFNS	ND	0.217	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
MeFOSAA	ND	0.321	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
EtFOSAA	ND	0.276	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFUnA	ND	0.133	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFDS	ND	0.258	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
11Cl-PF3OUdS	ND	0.877	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFDoA	ND	0.142	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
MeFOSA	ND	0.252	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFTTrDA	ND	0.175	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFDoS	ND	0.204	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1
PFTeDA	ND	0.160	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1

Sample ID: SC-OY-04					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-08		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	OYSTER									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
MeFOSE	ND	1.67	4.93		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
EtFOSE	ND	2.03	4.93		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	92.6	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C5-PFPeA	IS	74.4	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C2-4:2 FTS	IS	152	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C3-PFBS	IS	109	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C5-PFHxA	IS	108	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C4-PFHpA	IS	75.6	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C3-HFPO-DA	IS	77.5	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C2-6:2 FTS	IS	148	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C8-PFOA	IS	121	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C3-PFHxS	IS	117	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C9-PFNA	IS	98.2	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C2-8:2 FTS	IS	222	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C6-PFDA	IS	109	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
d3-MeFOSAA	IS	77.5	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C8-PFOS	IS	91.2	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
d5-EtFOSAA	IS	81.3	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C7-PFUnA	IS	78.7	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C8-PFOSA	IS	70.1	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C2-PFDoA	IS	64.0	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
13C2-PFTeDA	IS	57.7	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
d7-MeFOSE	IS	9.23	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
d3-MeFOSA	IS	25.8	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
d9-EtFOSE	IS	22.9	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	
d5-EtFOSA	IS	32.5	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 21:05	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-OY-05					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: OYSTER					Laboratory Data Lab Sample: 2408100-09 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.622	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFMPA	ND	0.457	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
3:3 FTCA	ND	1.27	2.49		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFPeA	ND	0.357	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFMBA	ND	0.400	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFBS	ND	0.217	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
4:2 FTS	ND	0.989	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFHxA	ND	0.178	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFEESA	ND	0.270	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFPeS	ND	0.239	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
HFPO-DA	ND	0.918	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
NFDHA	ND	0.369	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
5:3 FTCA	ND	3.95	14.9		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFHpA	ND	0.167	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
ADONA	ND	0.569	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFHxS	ND	0.268	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
6:2 FTS	ND	0.773	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFOA	ND	0.190	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFHpS	ND	0.157	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
7:3 FTCA	ND	4.85	14.9		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFNA	ND	0.182	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFOSA	ND	0.198	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFOS	ND	0.368	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
9Cl-PF3ONS	ND	0.655	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFDA	ND	0.172	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
8:2 FTS	ND	0.973	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFNS	ND	0.219	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
MeFOSAA	ND	0.324	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
EtFOSAA	ND	0.279	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFUnA	ND	0.134	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFDS	ND	0.261	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
11Cl-PF3OUdS	ND	0.886	1.99		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFDoA	ND	0.143	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
MeFOSA	ND	0.255	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFTTrDA	ND	0.177	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFDoS	ND	0.206	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
PFTeDA	ND	0.161	0.498		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1

Sample ID: SC-OY-05					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-09		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	OYSTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.309	0.995		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
MeFOSE	ND	1.69	4.98		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
EtFOSE	ND	2.05	4.98		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	83.7	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C5-PFPeA	IS	72.2	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C2-4:2 FTS	IS	137	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C3-PFBS	IS	98.3	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C5-PFHxA	IS	98.0	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C4-PFHpA	IS	77.2	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C3-HFPO-DA	IS	74.9	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C2-6:2 FTS	IS	138	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C8-PFOA	IS	110	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C3-PFHxS	IS	110	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C9-PFNA	IS	95.0	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C2-8:2 FTS	IS	202	20 - 150	Q	B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C6-PFDA	IS	101	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
d3-MeFOSAA	IS	75.4	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C8-PFOS	IS	90.4	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
d5-EtFOSAA	IS	71.8	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C7-PFUnA	IS	74.6	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C8-PFOSA	IS	32.3	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C2-PFDoA	IS	47.4	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
13C2-PFTeDA	IS	34.2	20 - 150		B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
d7-MeFOSE	IS	9.13	20 - 150	Q	B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
d3-MeFOSA	IS	13.3	20 - 150	Q	B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
d9-EtFOSE	IS	12.4	20 - 150	Q	B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1
d5-EtFOSA	IS	15.3	20 - 150	Q	B24H163	22-Aug-24	2.01 g	27-Aug-24 21:18	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-VS-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2408100-10	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	VARNISH								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.610	1.95		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFMPA	ND	0.448	0.976		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
3:3 FTCA	ND	1.25	2.44		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFPeA	ND	0.350	0.976		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFMBA	ND	0.392	0.976		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFBS	ND	0.213	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
4:2 FTS	ND	0.970	1.95		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFHxA	ND	0.175	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFEESA	ND	0.264	0.976		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFPeS	ND	0.234	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
HFPO-DA	ND	0.900	1.95		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
NFDHA	ND	0.362	0.976		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
5:3 FTCA	ND	3.87	14.6		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFHpA	ND	0.164	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
ADONA	ND	0.558	1.95		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFHxS	ND	0.262	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
6:2 FTS	ND	0.758	1.95		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFOA	ND	0.186	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFHpS	ND	0.154	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
7:3 FTCA	ND	4.75	14.6		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFNA	ND	0.179	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFOSA	ND	0.194	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFOS	0.594	0.361	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
9Cl-PF3ONS	ND	0.642	1.95		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFDA	ND	0.169	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
8:2 FTS	ND	0.954	1.95		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFNS	ND	0.215	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
MeFOSAA	ND	0.318	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
EtFOSAA	ND	0.273	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFUnA	ND	0.132	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFDS	ND	0.256	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
11Cl-PF3OUdS	ND	0.868	1.95		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFDoA	ND	0.140	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
MeFOSA	ND	0.250	0.976		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFTTrDA	ND	0.174	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFDoS	ND	0.202	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
PFTeDA	ND	0.158	0.488		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1

Sample ID: SC-VS-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-10		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	VARNISH								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.303	0.976		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
MeFOSE	ND	1.66	4.88		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
EtFOSE	ND	2.01	4.88		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	82.4	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C5-PFPeA	IS	71.1	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C2-4:2 FTS	IS	119	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C3-PFBS	IS	101	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C5-PFHxA	IS	100	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C4-PFHpA	IS	77.9	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C3-HFPO-DA	IS	76.4	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C2-6:2 FTS	IS	122	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C8-PFOA	IS	96.8	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C3-PFHxS	IS	105	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C9-PFNA	IS	88.6	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C2-8:2 FTS	IS	187	20 - 150	Q	B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C6-PFDA	IS	91.8	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
d3-MeFOSAA	IS	60.1	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C8-PFOS	IS	78.3	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
d5-EtFOSAA	IS	54.9	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C7-PFUnA	IS	66.9	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C8-PFOSA	IS	45.1	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C2-PFDoA	IS	53.0	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
13C2-PFTeDA	IS	52.6	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
d7-MeFOSE	IS	24.0	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
d3-MeFOSA	IS	24.8	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
d9-EtFOSE	IS	28.5	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1
d5-EtFOSA	IS	30.1	20 - 150		B24H163	22-Aug-24	2.05 g	27-Aug-24 21:32	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-VS-02					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: VARNISH					Laboratory Data Lab Sample: 2408100-11 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFMPA	ND	0.452	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
3:3 FTCA	ND	1.26	2.46		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFPeA	ND	0.354	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFMBA	ND	0.396	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFBS	ND	0.215	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
4:2 FTS	ND	0.979	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFHxA	ND	0.176	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFEESA	ND	0.267	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFPeS	ND	0.236	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
HFPO-DA	ND	0.909	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
NFDHA	ND	0.366	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
5:3 FTCA	ND	3.91	14.8		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFHpA	ND	0.166	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
ADONA	ND	0.564	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFHxS	ND	0.265	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
6:2 FTS	ND	0.766	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFOA	ND	0.188	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFHpS	ND	0.156	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
7:3 FTCA	ND	4.80	14.8		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFNA	ND	0.180	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFOSA	ND	0.196	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFOS	0.655	0.365	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
9Cl-PF3ONS	ND	0.648	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFDA	ND	0.170	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
8:2 FTS	ND	0.964	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFNS	ND	0.217	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
MeFOSAA	ND	0.321	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
EtFOSAA	ND	0.276	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFUnA	ND	0.133	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFDS	ND	0.258	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
11Cl-PF3OUdS	ND	0.877	1.97		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFDoA	ND	0.142	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
MeFOSA	ND	0.252	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFTTrDA	ND	0.175	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFDoS	ND	0.204	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
PFTeDA	ND	0.160	0.493		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1

Sample ID: SC-VS-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-11		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	VARNISH								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
MeFOSE	ND	1.67	4.93		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
EtFOSE	ND	2.03	4.93		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	82.5	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C5-PFPeA	IS	69.9	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C2-4:2 FTS	IS	95.3	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C3-PFBS	IS	102	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C5-PFHxA	IS	97.4	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C4-PFHpA	IS	75.2	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C3-HFPO-DA	IS	74.5	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C2-6:2 FTS	IS	107	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C8-PFOA	IS	110	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C3-PFHxS	IS	112	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C9-PFNA	IS	88.0	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C2-8:2 FTS	IS	174	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C6-PFDA	IS	90.0	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
d3-MeFOSAA	IS	50.2	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C8-PFOS	IS	70.4	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
d5-EtFOSAA	IS	46.6	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C7-PFUnA	IS	62.6	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C8-PFOSA	IS	3.86	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C2-PFDoA	IS	43.9	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
13C2-PFTeDA	IS	42.5	20 - 150		B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
d7-MeFOSE	IS	1.93	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
d3-MeFOSA	IS	2.95	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
d9-EtFOSE	IS	2.82	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1
d5-EtFOSA	IS	4.28	20 - 150	Q	B24H163	22-Aug-24	2.03 g	27-Aug-24 22:26	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-VS-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2408100-12	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	VARNISH								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.625	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFMPA	ND	0.459	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
3:3 FTCA	ND	1.28	2.50		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFPeA	ND	0.359	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFMBA	ND	0.402	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFBS	ND	0.218	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
4:2 FTS	ND	0.994	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFHxA	ND	0.179	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFEESA	ND	0.271	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFPeS	ND	0.240	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
HFPO-DA	ND	0.923	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
NFDHA	ND	0.371	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
5:3 FTCA	ND	3.97	15.0		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFHpA	ND	0.168	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
ADONA	ND	0.572	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFHxS	ND	0.269	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
6:2 FTS	ND	0.777	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFOA	ND	0.191	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFHpS	ND	0.158	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
7:3 FTCA	ND	4.87	15.0		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFNA	ND	0.183	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFOSA	ND	0.199	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFOS	0.692	0.370	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
9Cl-PF3ONS	ND	0.658	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFDA	ND	0.173	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
8:2 FTS	ND	0.978	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFNS	ND	0.220	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
MeFOSAA	ND	0.326	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
EtFOSAA	ND	0.280	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFUnA	ND	0.135	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFDS	ND	0.262	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
11Cl-PF3OUdS	ND	0.890	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFDoA	ND	0.144	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
MeFOSA	ND	0.256	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFTTrDA	ND	0.178	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFDoS	ND	0.207	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
PFTeDA	ND	0.162	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1

Sample ID: SC-VS-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-12		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	VARNISH								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.311	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
MeFOSE	ND	1.70	5.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
EtFOSE	ND	2.06	5.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	82.8	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C5-PFPeA	IS	69.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C2-4:2 FTS	IS	99.1	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C3-PFBS	IS	98.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C5-PFHxA	IS	109	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C4-PFHpA	IS	74.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C3-HFPO-DA	IS	70.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C2-6:2 FTS	IS	107	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C8-PFOA	IS	111	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C3-PFHxS	IS	103	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C9-PFNA	IS	91.1	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C2-8:2 FTS	IS	174	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C6-PFDA	IS	98.9	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
d3-MeFOSAA	IS	55.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C8-PFOS	IS	65.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
d5-EtFOSAA	IS	54.8	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C7-PFUnA	IS	73.8	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C8-PFOSA	IS	38.1	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C2-PFDoA	IS	51.3	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
13C2-PFTeDA	IS	42.1	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
d7-MeFOSE	IS	19.9	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
d3-MeFOSA	IS	21.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
d9-EtFOSE	IS	22.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1
d5-EtFOSA	IS	23.4	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 22:40	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-VS-04					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: VARNISH					Laboratory Data Lab Sample: 2408100-13 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.613	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFMPA	ND	0.450	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
3:3 FTCA	ND	1.25	2.45		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFPeA	ND	0.352	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFMBA	ND	0.394	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFBS	ND	0.214	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
4:2 FTS	ND	0.975	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFHxA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFEESA	ND	0.266	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFPeS	ND	0.235	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
HFPO-DA	ND	0.905	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
NFDHA	ND	0.364	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
5:3 FTCA	ND	3.89	14.7		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFHpA	ND	0.165	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
ADONA	ND	0.561	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFHxS	ND	0.264	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
6:2 FTS	ND	0.762	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFOA	ND	0.187	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFHpS	ND	0.155	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
7:3 FTCA	ND	4.77	14.7		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFNA	ND	0.179	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFOSA	ND	0.195	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFOS	0.616	0.363	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
9Cl-PF3ONS	ND	0.645	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFDA	ND	0.170	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
8:2 FTS	ND	0.959	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFNS	ND	0.216	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
MeFOSAA	ND	0.320	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
EtFOSAA	ND	0.275	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFUnA	ND	0.132	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFDS	ND	0.257	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
11Cl-PF3OUdS	ND	0.873	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFDoA	ND	0.141	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
MeFOSA	ND	0.251	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFTTrDA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFDoS	ND	0.203	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1
PFTeDA	ND	0.159	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1

Sample ID: SC-VS-04					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-13		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	VARNISH									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.305	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
MeFOSE	ND	1.67	4.90		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
EtFOSE	ND	2.02	4.90		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	85.2	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C5-PFPeA	IS	69.8	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C2-4:2 FTS	IS	117	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C3-PFBS	IS	102	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C5-PFHxA	IS	95.6	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C4-PFHpA	IS	75.7	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C3-HFPO-DA	IS	73.5	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C2-6:2 FTS	IS	135	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C8-PFOA	IS	110	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C3-PFHxS	IS	106	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C9-PFNA	IS	90.8	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C2-8:2 FTS	IS	203	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C6-PFDA	IS	107	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
d3-MeFOSAA	IS	70.2	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C8-PFOS	IS	74.7	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
d5-EtFOSAA	IS	70.7	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C7-PFUnA	IS	81.7	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C8-PFOSA	IS	41.9	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C2-PFDoA	IS	69.9	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
13C2-PFTeDA	IS	83.4	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
d7-MeFOSE	IS	2.06	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
d3-MeFOSA	IS	20.6	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
d9-EtFOSE	IS	15.5	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	
d5-EtFOSA	IS	23.3	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 22:53	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-VS-05					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: VARNISH					Laboratory Data Lab Sample: 2408100-14 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.625	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFMPA	ND	0.459	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
3:3 FTCA	ND	1.28	2.50		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFPeA	ND	0.359	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFMBA	ND	0.402	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFBS	ND	0.218	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
4:2 FTS	ND	0.994	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFHxA	ND	0.179	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFEESA	ND	0.271	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFPeS	ND	0.240	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
HFPO-DA	ND	0.923	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
NFDHA	ND	0.371	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
5:3 FTCA	ND	3.97	15.0		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFHpA	ND	0.168	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
ADONA	ND	0.572	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFHxS	ND	0.269	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
6:2 FTS	ND	0.777	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFOA	ND	0.191	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFHpS	ND	0.158	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
7:3 FTCA	ND	4.87	15.0		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFNA	ND	0.183	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFOSA	ND	0.199	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFOS	ND	0.370	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
9Cl-PF3ONS	ND	0.658	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFDA	ND	0.173	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
8:2 FTS	ND	0.978	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFNS	ND	0.220	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
MeFOSAA	ND	0.326	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
EtFOSAA	ND	0.280	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFOuA	ND	0.135	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFDS	ND	0.262	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
11Cl-PF3OUdS	ND	0.890	2.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFDoA	ND	0.144	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
MeFOSA	ND	0.256	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFTTrDA	ND	0.178	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFDoS	ND	0.207	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1
PFTeDA	ND	0.162	0.500		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1

Sample ID: SC-VS-05					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-14		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	VARNISH									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.311	1.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
MeFOSE	ND	1.70	5.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
EtFOSE	ND	2.06	5.00		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	81.1	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C5-PFPeA	IS	64.0	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C2-4:2 FTS	IS	102	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C3-PFBS	IS	97.5	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C5-PFHxA	IS	92.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C4-PFHpA	IS	73.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C3-HFPO-DA	IS	72.4	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C2-6:2 FTS	IS	108	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C8-PFOA	IS	94.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C3-PFHxS	IS	104	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C9-PFNA	IS	88.2	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C2-8:2 FTS	IS	178	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C6-PFDA	IS	96.4	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
d3-MeFOSAA	IS	55.8	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C8-PFOS	IS	71.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
d5-EtFOSAA	IS	53.7	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C7-PFUnA	IS	73.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C8-PFOSA	IS	15.6	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C2-PFDoA	IS	46.6	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
13C2-PFTeDA	IS	35.1	20 - 150		B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
d7-MeFOSE	IS	9.07	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
d3-MeFOSA	IS	10.6	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
d9-EtFOSE	IS	11.5	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	
d5-EtFOSA	IS	13.2	20 - 150	Q	B24H163	22-Aug-24	2.00 g	27-Aug-24 23:07	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-MC-01					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: MANILA					Laboratory Data Lab Sample: 2408100-15 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Matrix: Tissue Date Collected: 09-May-24 00:00									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.613	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFMPA	ND	0.450	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
3:3 FTCA	ND	1.25	2.45		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFPeA	ND	0.352	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFMBA	ND	0.394	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFBS	ND	0.214	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
4:2 FTS	ND	0.975	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFHxA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFEESA	ND	0.266	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFPeS	ND	0.235	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
HFPO-DA	ND	0.905	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
NFDHA	ND	0.364	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
5:3 FTCA	ND	3.89	14.7		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFHpA	ND	0.165	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
ADONA	ND	0.561	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFHxS	ND	0.264	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
6:2 FTS	ND	0.762	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFOA	ND	0.187	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFHpS	ND	0.155	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
7:3 FTCA	ND	4.77	14.7		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFNA	ND	0.179	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFOSA	ND	0.195	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFOS	ND	0.363	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
9Cl-PF3ONS	ND	0.645	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFDA	ND	0.170	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
8:2 FTS	ND	0.959	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFNS	ND	0.216	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
MeFOSAA	ND	0.320	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
EtFOSAA	ND	0.275	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFUnA	ND	0.132	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFDS	ND	0.257	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
11Cl-PF3OUdS	ND	0.873	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFDoA	ND	0.141	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
MeFOSA	ND	0.251	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFTTrDA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFDoS	ND	0.203	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
PFTeDA	ND	0.159	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1

Sample ID: SC-MC-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-15		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	MANILA								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.305	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
MeFOSE	ND	1.67	4.90		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
EtFOSE	ND	2.02	4.90		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	82.7	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C5-PFPeA	IS	70.2	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C2-4:2 FTS	IS	120	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C3-PFBS	IS	130	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C5-PFHxA	IS	105	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C4-PFHpA	IS	77.1	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C3-HFPO-DA	IS	76.0	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C2-6:2 FTS	IS	137	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C8-PFOA	IS	114	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C3-PFHxS	IS	114	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C9-PFNA	IS	92.5	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C2-8:2 FTS	IS	189	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C6-PFDA	IS	97.0	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
d3-MeFOSAA	IS	74.6	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C8-PFOS	IS	74.6	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
d5-EtFOSAA	IS	70.2	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C7-PFUnA	IS	65.9	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C8-PFOSA	IS	12.5	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C2-PFDoA	IS	48.4	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
13C2-PFTeDA	IS	46.5	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
d7-MeFOSE	IS	8.94	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
d3-MeFOSA	IS	15.4	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
d9-EtFOSE	IS	13.9	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1
d5-EtFOSA	IS	16.9	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:20	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-MC-02					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: MANILA					Laboratory Data Lab Sample: 2408100-16 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.613	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFMPA	ND	0.450	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
3:3 FTCA	ND	1.25	2.45		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFPeA	ND	0.352	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFMBA	ND	0.394	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFBS	ND	0.214	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
4:2 FTS	ND	0.975	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFHxA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFEESA	ND	0.266	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFPeS	ND	0.235	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
HFPO-DA	ND	0.905	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
NFDHA	ND	0.364	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
5:3 FTCA	ND	3.89	14.7		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFHpA	ND	0.165	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
ADONA	ND	0.561	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFHxS	ND	0.264	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
6:2 FTS	ND	0.762	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFOA	ND	0.187	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFHpS	ND	0.155	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
7:3 FTCA	ND	4.77	14.7		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFNA	ND	0.179	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFOSA	ND	0.195	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFOS	ND	0.363	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
9Cl-PF3ONS	ND	0.645	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFDA	ND	0.170	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
8:2 FTS	ND	0.959	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFNS	ND	0.216	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
MeFOSAA	ND	0.320	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
EtFOSAA	ND	0.275	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFUnA	ND	0.132	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFDS	ND	0.257	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
11Cl-PF3OUdS	ND	0.873	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFDoA	ND	0.141	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
MeFOSA	ND	0.251	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFTTrDA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFDoS	ND	0.203	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
PFTeDA	ND	0.159	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1

Sample ID: SC-MC-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-16		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	MANILA								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.305	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
MeFOSE	ND	1.67	4.90		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
EtFOSE	ND	2.02	4.90		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	83.3	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C5-PFPeA	IS	71.2	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C2-4:2 FTS	IS	124	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C3-PFBS	IS	152	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C5-PFHxA	IS	104	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C4-PFHpA	IS	80.7	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C3-HFPO-DA	IS	78.4	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C2-6:2 FTS	IS	137	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C8-PFOA	IS	92.9	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C3-PFHxS	IS	116	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C9-PFNA	IS	90.5	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C2-8:2 FTS	IS	170	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C6-PFDA	IS	89.1	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
d3-MeFOSAA	IS	58.4	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C8-PFOS	IS	68.3	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
d5-EtFOSAA	IS	54.5	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C7-PFUnA	IS	60.0	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C8-PFOSA	IS	12.3	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C2-PFDoA	IS	39.3	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
13C2-PFTeDA	IS	34.3	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
d7-MeFOSE	IS	8.84	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
d3-MeFOSA	IS	15.0	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
d9-EtFOSE	IS	13.1	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1
d5-EtFOSA	IS	16.0	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:34	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-MC-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2408100-17	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	MANILA								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.613	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFMPA	ND	0.450	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
3:3 FTCA	ND	1.25	2.45		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFPeA	ND	0.352	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFMBA	ND	0.394	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFBS	ND	0.214	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
4:2 FTS	ND	0.975	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFHxA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFEESA	ND	0.266	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFPeS	ND	0.235	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
HFPO-DA	ND	0.905	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
NFDHA	ND	0.364	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
5:3 FTCA	ND	3.89	14.7		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFHpA	ND	0.165	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
ADONA	ND	0.561	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFHxS	ND	0.264	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
6:2 FTS	ND	0.762	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFOA	ND	0.187	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFHpS	ND	0.155	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
7:3 FTCA	ND	4.77	14.7		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFNA	ND	0.179	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFOSA	ND	0.195	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFOS	ND	0.363	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
9Cl-PF3ONS	ND	0.645	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFDA	ND	0.170	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
8:2 FTS	ND	0.959	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFNS	ND	0.216	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
MeFOSAA	ND	0.320	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
EtFOSAA	ND	0.275	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFUnA	ND	0.132	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFDS	ND	0.257	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
11Cl-PF3OUdS	ND	0.873	1.96		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFDoA	ND	0.141	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
MeFOSA	ND	0.251	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFTTrDA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFDoS	ND	0.203	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1
PFTeDA	ND	0.159	0.490		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1

Sample ID: SC-MC-03					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-17		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	MANILA									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.305	0.980		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
MeFOSE	ND	1.67	4.90		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
EtFOSE	ND	2.02	4.90		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	86.5	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C5-PFPeA	IS	69.9	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C2-4:2 FTS	IS	146	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C3-PFBS	IS	150	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C5-PFHxA	IS	104	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C4-PFHpA	IS	76.4	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C3-HFPO-DA	IS	73.2	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C2-6:2 FTS	IS	146	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C8-PFOA	IS	116	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C3-PFHxS	IS	119	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C9-PFNA	IS	91.0	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C2-8:2 FTS	IS	211	20 - 150	Q	B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C6-PFDA	IS	99.9	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
d3-MeFOSAA	IS	78.1	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C8-PFOS	IS	75.2	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
d5-EtFOSAA	IS	84.1	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C7-PFUnA	IS	75.1	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C8-PFOSA	IS	62.1	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C2-PFDoA	IS	65.0	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
13C2-PFTeDA	IS	77.1	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
d7-MeFOSE	IS	33.9	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
d3-MeFOSA	IS	37.7	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
d9-EtFOSE	IS	42.9	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	
d5-EtFOSA	IS	39.0	20 - 150		B24H163	22-Aug-24	2.04 g	27-Aug-24 23:47	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-MC-04					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: MANILA					Laboratory Data Lab Sample: 2408100-18 Date Received: 15-Aug-24 07:20 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.613	1.96		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFMPA	ND	0.450	0.980		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
3:3 FTCA	ND	1.25	2.45		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFPeA	ND	0.352	0.980		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFMBA	ND	0.394	0.980		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFBS	ND	0.214	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
4:2 FTS	ND	0.975	1.96		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFHxA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFEESA	ND	0.266	0.980		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFPeS	ND	0.235	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
HFPO-DA	ND	0.905	1.96		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
NFDHA	ND	0.364	0.980		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
5:3 FTCA	ND	3.89	14.7		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFHpA	ND	0.165	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
ADONA	ND	0.561	1.96		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFHxS	ND	0.264	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
6:2 FTS	ND	0.762	1.96		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFOA	ND	0.187	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFHpS	ND	0.155	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
7:3 FTCA	ND	4.77	14.7		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFNA	ND	0.179	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFOSA	ND	0.195	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFOS	ND	0.363	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
9Cl-PF3ONS	ND	0.645	1.96		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFDA	ND	0.170	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
8:2 FTS	ND	0.959	1.96		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFNS	ND	0.216	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
MeFOSAA	ND	0.320	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
EtFOSAA	ND	0.275	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFOuA	ND	0.132	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFDS	ND	0.257	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
11Cl-PF3OUdS	ND	0.873	1.96		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFDoA	ND	0.141	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
MeFOSA	ND	0.251	0.980		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFTTrDA	ND	0.175	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFDoS	ND	0.203	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
PFTeDA	ND	0.159	0.490		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1

Sample ID: SC-MC-04					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-18		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	MANILA								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.305	0.980		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
MeFOSE	ND	1.67	4.90		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
EtFOSE	ND	2.02	4.90		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	84.7	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C5-PFPeA	IS	71.9	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C2-4:2 FTS	IS	143	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C3-PFBS	IS	146	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C5-PFHxA	IS	108	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C4-PFHpA	IS	79.3	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C3-HFPO-DA	IS	74.9	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C2-6:2 FTS	IS	138	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C8-PFOA	IS	112	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C3-PFHxS	IS	122	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C9-PFNA	IS	96.0	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C2-8:2 FTS	IS	219	20 - 150	Q	B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C6-PFDA	IS	104	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
d3-MeFOSAA	IS	75.6	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C8-PFOS	IS	73.4	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
d5-EtFOSAA	IS	81.8	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C7-PFUnA	IS	79.7	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C8-PFOSA	IS	42.3	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C2-PFDoA	IS	71.6	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
13C2-PFTeDA	IS	74.4	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
d7-MeFOSE	IS	20.2	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
d3-MeFOSA	IS	26.7	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
d9-EtFOSE	IS	29.5	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1
d5-EtFOSA	IS	28.1	20 - 150		B24H163	22-Aug-24	2.04 g	28-Aug-24 00:01	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SC-MC-05					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2408100-19	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20				
Location:	MANILA								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.610	1.95		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFMPA	ND	0.448	0.976		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
3:3 FTCA	ND	1.25	2.44		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFPeA	ND	0.350	0.976		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFMBA	ND	0.392	0.976		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFBS	ND	0.213	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
4:2 FTS	ND	0.970	1.95		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFHxA	ND	0.175	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFEESA	ND	0.264	0.976		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFPeS	ND	0.234	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
HFPO-DA	ND	0.900	1.95		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
NFDHA	ND	0.362	0.976		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
5:3 FTCA	ND	3.87	14.6		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFHpA	ND	0.164	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
ADONA	ND	0.558	1.95		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFHxS	ND	0.262	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
6:2 FTS	ND	0.758	1.95		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFOA	ND	0.186	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFHpS	ND	0.154	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
7:3 FTCA	ND	4.75	14.6		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFNA	ND	0.179	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFOSA	ND	0.194	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFOS	ND	0.361	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
9Cl-PF3ONS	ND	0.642	1.95		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFDA	ND	0.169	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
8:2 FTS	ND	0.954	1.95		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFNS	ND	0.215	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
MeFOSAA	ND	0.318	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
EtFOSAA	ND	0.273	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFUnA	ND	0.132	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFDS	ND	0.256	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
11Cl-PF3OUdS	ND	0.868	1.95		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFDoA	ND	0.140	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
MeFOSA	ND	0.250	0.976		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFTTrDA	ND	0.174	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFDoS	ND	0.202	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
PFTeDA	ND	0.158	0.488		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1

Sample ID: SC-MC-05					EPA Method 1633				
Client Data					Laboratory Data				
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2408100-19		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	15-Aug-24 07:20			
Location:	MANILA								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.303	0.976		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
MeFOSE	ND	1.66	4.88		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
EtFOSE	ND	2.01	4.88		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	85.9	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C5-PFPeA	IS	67.7	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C2-4:2 FTS	IS	121	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C3-PFBS	IS	137	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C5-PFHxA	IS	94.1	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C4-PFHpA	IS	78.1	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C3-HFPO-DA	IS	73.8	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C2-6:2 FTS	IS	127	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C8-PFOA	IS	110	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C3-PFHxS	IS	109	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C9-PFNA	IS	88.5	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C2-8:2 FTS	IS	182	20 - 150	Q	B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C6-PFDA	IS	92.8	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
d3-MeFOSAA	IS	63.7	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C8-PFOS	IS	74.5	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
d5-EtFOSAA	IS	64.1	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C7-PFUnA	IS	63.5	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C8-PFOSA	IS	14.6	20 - 150	Q	B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C2-PFDoA	IS	47.9	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
13C2-PFTeDA	IS	50.4	20 - 150		B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
d7-MeFOSE	IS	10.8	20 - 150	Q	B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
d3-MeFOSA	IS	16.7	20 - 150	Q	B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
d9-EtFOSE	IS	16.9	20 - 150	Q	B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1
d5-EtFOSA	IS	17.6	20 - 150	Q	B24H163	22-Aug-24	2.05 g	28-Aug-24 00:14	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

DATA QUALIFIERS & ABBREVIATIONS

For EPA 1633

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
I	Ion transition ratio is outside of the acceptance criteria.
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	Recovery and/or RPD was outside laboratory acceptance limits
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.



CHAIN OF CUSTODY

PFAS Methods

For Laboratory Use Only

Work Order #: 2408100 Temp: 1.3 °C
Storage ID: WF-2 Storage Secured: ☒ Yes ☐ No

Project ID: SHELLFISH PFAS PO#: T160435 Sampler: EMERSON CHRISTIE
(name)

TAT Standard: ☐ 21 days
(check one): Rush (surcharge may apply)
☐ 14 days ☐ 7 days Other: _____

Invoice to: Name WA DOH Company _____ Address 111 ISRAEL ROAD SE City TUMWATER WA State WA Phone # 364 669 4325

Relinquished by (printed name and signature) EMERSON CHRISTIE Date 8/14/24 Time _____ Received by (printed name and signature) Karen-Lee Ky Date 08/15/24 Time _____

Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

SHIP TO: Enthalpy Analytical - EDH
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520

Method of Shipment: _____

Add Analysis(es) Requested

ATTN: _____

Tracking No.: _____

Container(s)

PFAS by Isotope Dilution
Drinking Water

Requirements:

- ☐ State-specific (list state): _____
☐ DoD QSM Compliant
☐ PFAS List Below (or attach compound list): _____

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1631-Draft	EPA 1631-FINAL	DoD QSM Table B-15	Other	EPA 533	EPA 537.1	List of 28 (537.1 + 533)
SC-CO-01	5/9/24		COCKLES	1	T		*							
SC-CO-02	5/9/24		COCKLES	1	T									
SC-CO-03	5/9/24		COCKLES	1	T									
SC-CO-04	5/9/24		COCKLES	1	T									
SC-CO-05	5/9/24		COCKLES	1	T									
SC-OY-01	5/9/24		OYSTER	1	T									
SC-OY-02	5/9/24		OYSTER	1	T									
SC-OY-03	5/9/24		OYSTER	1	T									
SC-OY-04	5/9/24		OYSTER	1	T									
SC-OY-05	5/9/24		OYSTER	1	T									

PLEASE USE SC-OY-05 AS MATRIX
SPIKE DUPB

SEND
DOCUMENTATION
AND RESULTS TO:

Name: EMERSON CHRISTIE
Company: WA DOH
Address: 111 ISRAEL RD SE
City: TUMWATER State: WA Zip: 98501
Phone: 364 669 4325
Email: EMERSON.CHIRSTIE@DOH.WA.GOV

Container Types: P= HDPE, PJ= HDPE Jar
PY= Polypropylene, O = Other: _____

Bottle Preservation Type:

TZ = Trizma

AA = Amm. Acetate:

Matrix Types: AO = Aqueous, DW = Drinking Water, EF = Effluent, SD = Sediment, T=Tissue

SL = Sludge, SO = Soil, WW = Wastewater, O = Other:

ID: LR-COC

Rev. No. 4

Rev. Date: 6/24/2024

Page: 1 of 1



CHAIN OF CUSTODY

PFAS Methods

For Laboratory Use Only

Work Order #: 2408100 Temp. 1.3 °C
Storage ID: WF-2 Storage Secured: ☒ Yes ☐ No

Project ID: SHOULFISH PFAS PO#: TIG0435 Sampler: EMERSON CHRISTIE
(name)

TAT Standard: ☐ 21 days
(check one): Rush (surcharge may apply)
☐ 14 days ☐ 7 days Other: _____

Invoice to: Name WA DOH Company III ISRAEL ROAD SE Address TUMWATER WA City 564 669 4325 State WA Phone # 564 669 4325

Relinquished by (printed name and signature) Emerson Christie Date 8/14/24 Time _____ Received by (printed name and signature) Karany Anoth Date _____ Time _____

Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

SHIP TO Enthalpy Analytical - EDH
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520

Method of Shipment:

ATTN: _____

Tracking No.: _____

Add Analysis(es) Requested

Container(s)

PFAS by Isotope Dilution
Drinking Water
Requirements:
☐ State-specific (list state): _____
☐ DoD QSM Compliant
☐ PFAS List Below (or attach compound list): _____

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1631-Draft	EPA 1631-FINAL	DoD QSM Table B-15	Other:	EPA 533	EPA 537.1	List of 29 (537.1 + 533)
SC-VS-01	5/9/24		VARNISH	1	T									
SC-VS-02	5/9/24		VARNISH	1	T									
SC-VS-03	5/9/24		VARNISH	1	T									
SC-VS-04	5/9/24		VARNISH	1	T									
SC-VS-05	5/9/24		VARNISH	1	T									
SC-MC-01	5/9/24		MANILA	1	T									
SC-MC-02	5/9/24		MANILA	1	T									
SC-MC-03	5/9/24		MANILA	1	T									
SC-MC-04	5/9/24		MANILA	1	T									
SC-MC-05	5/9/24		MANILA	1	T									

Other Instructions/ Comments

SEND
DOCUMENTATION
AND RESULTS TO:

Name: EMERSON CHRISTIE
Company: WA DOH
Address: III ISRAEL RD SE
City: TUMWATER State: WA Zip: 98501
Phone: 564 669 4325
Email: EMERSON.CHIRSTIE@DOH.WA.GOV

Container Types: P= HDPE, PJ= HDPE Jar
PY= Polypropylene, O = Other: _____

Bottle Preservation Type:

TZ = Tnzma: _____

AA = Amm, Acetate: _____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, SD = Sediment, T=Tissue

SL = Sludge, SO = Soil, WW = Wastewater, O = Other. _____

ID: LR-COC

Rev. No. 4

Rev. Date: 6/24/2024

Page: 1 of 1

CoC/Label Reconciliation Report WO# 2408100

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2408100-01	A SC-CO-01	☒	COCKLES	09-May-24 00:00	☐ A	Plastic Bag	Tissue	
2408100-02	A SC-CO-02	☒	COCKLES	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-03	A SC-CO-03	☒	COCKLES	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-04	A SC-CO-04	☒	COCKLES	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-05	A SC-OY-01	☒	OYSTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-06	A SC-OY-02	☒	OYSTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-07	A SC-OY-03	☒	OYSTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-08	A SC-OY-04	☒	OYSTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-09	A SC-OY-05	☒	OYSTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-10	A SC-VS-01	☐ 5	VARNISH	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-11	A SC-VS-02	☐	VARNISH	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-12	A SC-VS-03	☐	VARNISH	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-13	A SC-VS-04	☐	VARNISH	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-14	A SC-VS-05	☐	VARNISH	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-15	A SC-MC-01	☒	MANILA	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-16	A SC-MC-02	☒	MANILA	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-17	A SC-MC-03	☒	MANILA	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-18	A SC-MC-04	☒	MANILA	09-May-24 00:00	☐	Plastic Bag	Tissue	
2408100-19	A SC-MC-05	☒	MANILA	09-May-24 00:00	☐	Plastic Bag	Tissue	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	☒	☐	☐
Sample Custody Seals Intact?	☐	☐	☒
Adequate Sample Volume?	☒	☐	☐
Container Type Appropriate for Analysis(es)	☒	☐	☐

Comments:

A) No time listed on COC or sample bag. Used 00:00
 B) Underlined part listed on sample bag ID "C".

Preservation Documented: Na₂S₂O₃ Trizma NH₄CH₃CO₂ None Other

Verified by/Date: XA 08/16/24
XAO 08/16/24



October 22, 2024

Enthalpy Analytical - El Dorado Hills
Work Order No. 2409185

Mr Emerson Christie
Washington State Department of Health
111 Israel Road S.E.
Tumwater, WA 98501

Dear Mr Christie,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on September 24, 2024 under your Project Name 'SHELLFISH PFAS'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at emilyuebelhoer@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

A handwritten signature in black ink that reads 'Byron Clack'.

Byron Clack For Emily Uebelhoer
Project Manager

Enthalpy Analytical -EDH certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Enthalpy Analytical -EDH.

Enthalpy Analytical - EDH Work Order No. 2409185

Case Narrative

Sample Condition on Receipt:

Twenty tissue samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements. Sample ID discrepancies were noted for the samples between the container labels and the Chain-of-Custody (CoC). The sample IDs have been reported as listed on the CoC. No collection times were noted on the Chain-of-Custody (CoC) for all samples; the collection times have been reported as 00:00.

Analytical Notes:

EPA Method 1633 (Tissue)

The samples were extracted and analyzed for a selected list of PFAS using EPA Method 1633. The results for PFHxS, PFOA, PFOSA, PFOS, PFNA, MeFOSAA, EtFOSAA, MeFOSA, MeFOSE, EtFOSA, EtFOSE include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted outside of hold time. Samples were analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank, Ongoing Precision and Recovery (OPR) sample, and Low-Level OPR sample were extracted and analyzed with each preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

As requested, an MS/MSD was performed on sample SSP-BC-03. The MS/MSD recoveries and RPDs were within acceptance criteria.

The ion transition ratios outside the acceptance criteria are flagged with an "I" qualifier.

The labeled standard recoveries outside the acceptance criteria are flagged with an "Q" qualifier. The responses of the internal standards with low recoveries were greater than 10:1 signal-to-noise, which is the limit generally considered acceptable for accurate quantitation by isotope dilution analysis.

TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	60
Certifications.....	61
Sample Receipt.....	62

Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2409185-01	PP-GM-01	21-Feb-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-02	PP-GM-02	21-Feb-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-03	PP-GM-03	21-Feb-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-04	PP-GM-04	21-Feb-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-05	PP-GB-01	21-Feb-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-06	PP-GB-02	21-Feb-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-07	PP-GB-03	21-Feb-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-08	PP-GB-04	21-Feb-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-09	PC-DM-01	27-Mar-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-10	PC-DH-01	27-Mar-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-11	CSP-BC-01	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-12	CAR-BC-01	09-May-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-13	CAR-BC-02	09-May-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-14	CAR-BC-03	09-May-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-15	CAR-BC-04	09-May-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-16	SSP-BC-01	09-May-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-17	SSP-BC-02	09-May-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-18	SSP-BC-03	09-May-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-19	SSP-BC-04	09-May-24 00:00	24-Sep-24 07:53	Plastic Bag
2409185-20	PCK-BC-01	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag

ANALYTICAL RESULTS

Sample ID: Method Blank
EPA Method 1633

Client Data					Laboratory Data				
Name:	Washington State Department of Health	Matrix:	Tissue		Lab Sample:	B24I177-BLK1	Column:	BEH C18	
Project:	SHELLFISH PFAS								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.625	2.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFMPA	ND	0.459	1.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
3:3 FTCA	ND	1.28	2.50		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFPeA	ND	0.359	1.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFMBA	ND	0.402	1.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFBS	ND	0.218	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
4:2 FTS	ND	0.994	2.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFHxA	ND	0.179	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFEESA	ND	0.271	1.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFPeS	ND	0.240	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
HFPO-DA	ND	0.923	2.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
NFDHA	ND	0.371	1.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
5:3 FTCA	ND	3.97	15.0		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFHpA	ND	0.168	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
ADONA	ND	0.572	2.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFHxS	ND	0.269	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
6:2 FTS	ND	0.777	2.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFOA	ND	0.191	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFHpS	ND	0.158	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
7:3 FTCA	ND	4.87	15.0		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFNA	ND	0.183	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFOSA	ND	0.199	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFOS	ND	0.370	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
9Cl-PF3ONS	ND	0.658	2.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFDA	ND	0.173	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
8:2 FTS	ND	0.978	2.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFNS	ND	0.220	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
MeFOSAA	ND	0.326	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
EtFOSAA	ND	0.280	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFOA	ND	0.135	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFDS	ND	0.262	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
11Cl-PF3OUdS	ND	0.890	2.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFDoA	ND	0.144	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
MeFOSA	ND	0.256	1.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFTTrDA	ND	0.178	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFDoS	ND	0.207	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
PFTeDA	ND	0.162	0.500		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
EtFOSA	ND	0.311	1.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1

Sample ID: Method Blank					EPA Method 1633				
Client Data				Laboratory Data					
Name: Washington State Department of Health		Matrix: Tissue		Lab Sample: B24I177-BLK1		Column: BEH C18			
Project: SHELLFISH PFAS									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSE	ND	1.70	5.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
EtFOSE	ND	2.06	5.00		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	94.6	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C5-PFPeA	IS	94.0	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C2-4:2 FTS	IS	105	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C3-PFBS	IS	93.5	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C5-PFHxA	IS	95.7	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C4-PFHpA	IS	93.8	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C3-HFPO-DA	IS	95.5	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C2-6:2 FTS	IS	113	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C8-PFOA	IS	85.6	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C3-PFHxS	IS	98.1	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C9-PFNA	IS	95.6	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C2-8:2 FTS	IS	103	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C6-PFDA	IS	123	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
d3-MeFOSAA	IS	99.5	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C8-PFOS	IS	95.0	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
d5-EtFOSAA	IS	93.9	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C7-PFUnA	IS	121	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C8-PFOSA	IS	71.6	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C2-PFDoA	IS	117	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
13C2-PFTeDA	IS	120	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
d7-MeFOSE	IS	66.9	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
d3-MeFOSA	IS	40.2	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
d9-EtFOSE	IS	14.1	20 - 150	Q	B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1
d5-EtFOSA	IS	19.1	20 - 150	Q	B24I177	30-Sep-24	2.00 g	03-Oct-24 16:52	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24I177-BS1	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	6.01	5.00	120	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFMPA	3.01	2.50	120	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
3:3 FTCA	6.09	6.25	97.5	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFPeA	2.63	2.50	105	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFMBA	2.88	2.50	115	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFBS	1.26	1.11	113	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
4:2 FTS	5.64	4.69	120	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFHxA	1.41	1.25	113	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFEESA	2.33	2.22	105	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFPeS	1.20	1.18	101	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
HFPO-DA	5.81	5.29	110	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
NFDHA	2.77	2.50	111	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
5:3 FTCA	30.4	31.2	97.3	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFHpA	1.37	1.25	110	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
ADONA	5.44	5.00	109	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFHxS	1.25	1.14	110	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
6:2 FTS	5.11	4.75	108	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFOA	1.54	1.25	123	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFHpS	1.13	1.19	94.7	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
7:3 FTCA	32.1	31.2	103	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFNA	1.55	1.25	124	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFOSA	1.45	1.25	116	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFOS	1.32	1.16	114	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
9Cl-PF3ONS	6.15	4.95	124	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFDA	1.51	1.25	120	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
8:2 FTS	5.54	4.80	115	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFNS	1.35	1.20	112	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
MeFOSAA	1.53	1.25	123	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
EtFOSAA	1.37	1.25	110	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFUnA	1.47	1.25	118	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFDS	1.25	1.21	103	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
11Cl-PF3OUdS	5.74	5.00	115	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFDaA	1.30	1.25	104	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
MeFOSA	1.37	1.25	110	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24I177-BS1	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTTrDA	1.18	1.25	94.3	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFDoS	0.651	1.21	53.8	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
PFTeDA	1.39	1.25	111	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
EtFOSA	1.43	1.25	115	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
MeFOSE	13.9	12.5	111	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
EtFOSE	10.4	12.5	83.1	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS		93.2	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C5-PFPeA	IS		87.2	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C2-4:2 FTS	IS		99.7	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C3-PFBS	IS		88.1	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C5-PFHxA	IS		88.7	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C4-PFHpA	IS		88.0	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C3-HFPO-DA	IS		89.9	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C2-6:2 FTS	IS		118	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C8-PFOA	IS		81.7	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C3-PFHxS	IS		92.6	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C9-PFNA	IS		94.2	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C2-8:2 FTS	IS		99.9	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C6-PFDA	IS		98.8	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
d3-MeFOSAA	IS		97.5	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C8-PFOS	IS		95.1	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
d5-EtFOSAA	IS		95.9	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C7-PFUnA	IS		101	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C8-PFOSA	IS		79.6	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C2-PFDoA	IS		103	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
13C2-PFTeDA	IS		55.2	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
d7-MeFOSE	IS		45.0	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
d3-MeFOSA	IS		29.5	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
d9-EtFOSE	IS		7.96	20 - 150	Q	B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1
d5-EtFOSA	IS		11.7	20 - 150	Q	B24I177	30-Sep-24	2.00 g	03-Oct-24 17:05	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24I177-BS2	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	4.74	4.00	118	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFMPA	2.26	2.00	113	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
3:3 FTCA	5.00	5.00	99.9	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFPeA	2.02	2.00	101	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFMBA	2.20	2.00	110	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFBS	0.865	0.887	97.5	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
4:2 FTS	4.19	3.75	112	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFHxA	0.987	1.00	98.7	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFEESA	1.84	1.78	103	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFPeS	0.889	0.941	94.5	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
HFPO-DA	3.69	4.00	92.3	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
NFDHA	1.93	2.00	96.3	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
5:3 FTCA	21.8	25.0	87.3	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFHpA	1.01	1.00	101	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
ADONA	3.83	3.78	101	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFHxS	0.963	0.914	105	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
6:2 FTS	4.01	3.80	105	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFOA	1.16	1.00	116	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFHpS	0.795	0.953	83.4	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
7:3 FTCA	23.4	25.0	93.7	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFNA	1.17	1.00	117	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFOSA	1.05	1.00	105	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFOS	0.925	0.928	99.7	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
9Cl-PF3ONS	4.28	3.74	114	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFDA	1.11	1.00	111	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
8:2 FTS	4.05	3.84	105	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFNS	1.04	0.962	108	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
MeFOSAA	1.06	1.00	106	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
EtFOSAA	0.975	1.00	97.5	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFUnA	1.03	1.00	103	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFDS	0.870	0.965	90.2	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
11Cl-PF3OUdS	3.74	3.78	99.0	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFDaA	1.05	1.00	105	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
MeFOSA	1.04	1.00	104	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24I177-BS2	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTTrDA	1.03	1.00	103	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFDoS	0.586	0.970	60.4	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
PFTeDA	1.13	1.00	113	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
EtFOSA	1.26	1.00	126	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
MeFOSE	10.7	10.0	107	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
EtFOSE	7.72	10.0	77.2	40 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS		88.0	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C5-PFPeA	IS		86.5	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C2-4:2 FTS	IS		96.3	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C3-PFBS	IS		88.0	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C5-PFHxA	IS		94.1	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C4-PFHpA	IS		94.8	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C3-HFPO-DA	IS		96.1	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C2-6:2 FTS	IS		110	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C8-PFOA	IS		81.5	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C3-PFHxS	IS		90.1	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C9-PFNA	IS		100	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C2-8:2 FTS	IS		100	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C6-PFDA	IS		91.6	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
d3-MeFOSAA	IS		94.9	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C8-PFOS	IS		93.3	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
d5-EtFOSAA	IS		94.5	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C7-PFUnA	IS		96.5	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C8-PFOSA	IS		74.7	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C2-PFDoA	IS		85.3	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
13C2-PFTeDA	IS		56.7	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
d7-MeFOSE	IS		46.3	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
d3-MeFOSA	IS		28.7	20 - 150		B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
d9-EtFOSE	IS		8.64	20 - 150	Q	B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1
d5-EtFOSA	IS		12.6	20 - 150	Q	B24I177	30-Sep-24	2.00 g	03-Oct-24 17:19	1

Sample ID: Method Blank
EPA Method 1633

Client Data					Laboratory Data				
Name:	Washington State Department of Health	Matrix:	Tissue		Lab Sample:	B24J065-BLK1	Column:	BEH C18	
Project:	SHELLFISH PFAS								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.625	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFMPA	ND	0.459	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
3:3 FTCA	ND	1.28	2.50		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFPeA	ND	0.359	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFMBA	ND	0.402	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFBS	ND	0.218	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
4:2 FTS	ND	0.994	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFHxA	ND	0.179	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFEESA	ND	0.271	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFPeS	ND	0.240	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
HFPO-DA	ND	0.923	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
NFDHA	ND	0.371	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
5:3 FTCA	ND	3.97	15.0		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFHpA	ND	0.168	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
ADONA	ND	0.572	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFHxS	ND	0.269	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
6:2 FTS	ND	0.777	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFOA	ND	0.191	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFHpS	ND	0.158	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
7:3 FTCA	ND	4.87	15.0		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFNA	ND	0.183	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFOSA	ND	0.199	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFOS	ND	0.370	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
9Cl-PF3ONS	ND	0.658	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFDA	ND	0.173	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
8:2 FTS	ND	0.978	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFNS	ND	0.220	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
MeFOSAA	ND	0.326	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
EtFOSAA	ND	0.280	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFOA	ND	0.135	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFDS	ND	0.262	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
11Cl-PF3OUdS	ND	0.890	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFDoA	ND	0.144	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
MeFOSA	ND	0.256	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFTTrDA	ND	0.178	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFDoS	ND	0.207	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFTeDA	ND	0.162	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
EtFOSA	ND	0.311	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1

Sample ID: Method Blank					EPA Method 1633				
Client Data				Laboratory Data					
Name: Washington State Department of Health		Matrix: Tissue		Lab Sample: B24J065-BLK1		Column: BEH C18			
Project: SHELLFISH PFAS									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSE	ND	1.70	5.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
EtFOSE	ND	2.06	5.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	114	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C5-PFPeA	IS	102	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C2-4:2 FTS	IS	104	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C3-PFBS	IS	99.3	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C5-PFHxA	IS	101	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C4-PFHpA	IS	102	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C3-HFPO-DA	IS	99.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C2-6:2 FTS	IS	88.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C8-PFOA	IS	95.5	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C3-PFHxS	IS	108	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C9-PFNA	IS	96.5	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C2-8:2 FTS	IS	89.3	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C6-PFDA	IS	98.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d3-MeFOSAA	IS	109	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C8-PFOS	IS	114	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d5-EtFOSAA	IS	115	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C7-PFUnA	IS	102	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C8-PFOSA	IS	101	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C2-PFDoA	IS	82.8	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C2-PFTeDA	IS	95.7	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d7-MeFOSE	IS	81.7	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d3-MeFOSA	IS	58.8	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d9-EtFOSE	IS	22.9	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d5-EtFOSA	IS	92.4	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24J065-BS1	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	5.06	5.01	101	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFMPA	2.67	2.51	107	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
3:3 FTCA	5.67	6.24	90.8	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFPeA	2.57	2.51	102	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFMBA	2.61	2.51	104	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFBS	1.15	1.11	104	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
4:2 FTS	4.75	4.70	101	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFHxA	1.31	1.25	105	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFEESA	2.23	2.23	100	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFPeS	1.02	1.18	86.0	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
HFPO-DA	5.07	5.28	95.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
NFDHA	2.31	2.51	91.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
5:3 FTCA	27.1	31.2	86.8	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFHpA	1.25	1.25	100	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
ADONA	4.54	4.99	90.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFHxS	1.02	1.15	88.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
6:2 FTS	4.70	4.76	98.8	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFOA	1.32	1.25	106	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFHpS	1.06	1.19	89.2	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
7:3 FTCA	25.2	31.2	80.8	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFNA	1.48	1.25	118	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFOSA	1.27	1.25	101	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFOS	1.02	1.16	88.0	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
9Cl-PF3ONS	5.23	4.94	106	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFDA	1.24	1.25	99.0	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
8:2 FTS	4.56	4.81	94.7	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFNS	0.982	1.21	81.2	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
MeFOSAA	1.14	1.25	90.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
EtFOSAA	1.07	1.25	85.2	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFUnA	1.14	1.25	91.0	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFDS	1.05	1.21	86.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
11Cl-PF3OUdS	5.12	4.99	103	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFDaA	1.14	1.25	90.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
MeFOSA	1.23	1.25	98.7	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24J065-BS1	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTTrDA	1.12	1.25	89.4	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFDoS	1.04	1.22	85.4	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFTeDA	1.11	1.25	88.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
EtFOSA	1.14	1.25	91.1	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
MeFOSE	13.1	12.5	105	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
EtFOSE	12.9	12.5	103	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS		114	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C5-PFPeA	IS		104	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C2-4:2 FTS	IS		108	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C3-PFBS	IS		109	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C5-PFHxA	IS		108	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C4-PFHpA	IS		107	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C3-HFPO-DA	IS		109	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C2-6:2 FTS	IS		95.0	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C8-PFOA	IS		93.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C3-PFHxS	IS		116	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C9-PFNA	IS		105	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C2-8:2 FTS	IS		94.9	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C6-PFDA	IS		113	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d3-MeFOSAA	IS		99.0	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C8-PFOS	IS		115	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d5-EtFOSAA	IS		111	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C7-PFUnA	IS		113	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C8-PFOSA	IS		97.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C2-PFDoA	IS		106	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C2-PFTeDA	IS		126	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d7-MeFOSE	IS		81.0	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d3-MeFOSA	IS		54.7	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d9-EtFOSE	IS		15.7	20 - 150	Q	B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d5-EtFOSA	IS		91.4	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24J065-BS2	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	3.98	4.00	99.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFMPA	2.08	2.00	104	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
3:3 FTCA	4.68	5.00	93.6	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFPeA	2.14	2.00	107	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFMBA	2.14	2.00	107	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFBS	0.801	0.887	90.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
4:2 FTS	3.61	3.75	96.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFHxA	0.953	1.00	95.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFEESA	1.87	1.78	105	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFPeS	0.850	0.941	90.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
HFPO-DA	3.78	4.00	94.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
NFDHA	2.04	2.00	102	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
5:3 FTCA	24.3	25.0	97.4	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFHpA	0.987	1.00	98.7	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
ADONA	3.44	3.78	90.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFHxS	0.854	0.914	93.4	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
6:2 FTS	3.78	3.80	99.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFOA	1.17	1.00	117	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFHpS	0.937	0.953	98.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
7:3 FTCA	21.5	25.0	85.8	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFNA	1.21	1.00	121	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFOSA	1.00	1.00	100	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFOS	0.903	0.928	97.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
9Cl-PF3ONS	3.22	3.74	86.1	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFDA	1.17	1.00	117	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
8:2 FTS	4.17	3.84	108	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFNS	0.813	0.962	84.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
MeFOSAA	0.937	1.00	93.7	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
EtFOSAA	0.906	1.00	90.6	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFUnA	1.02	1.00	102	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFDS	0.854	0.965	88.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
11Cl-PF3OUdS	3.26	3.78	86.1	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFDaA	0.913	1.00	91.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
MeFOSA	1.05	1.00	105	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24J065-BS2	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTTrDA	1.02	1.00	102	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFDoS	0.690	0.970	71.1	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFTeDA	0.951	1.00	95.1	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
EtFOSA	0.940	1.00	94.0	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
MeFOSE	10.8	10.0	108	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
EtFOSE	11.8	10.0	118	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS		111	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C5-PFPeA	IS		95.0	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C2-4:2 FTS	IS		107	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C3-PFBS	IS		100	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C5-PFHxA	IS		97.5	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C4-PFHpA	IS		99.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C3-HFPO-DA	IS		100	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C2-6:2 FTS	IS		91.3	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C8-PFOA	IS		88.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C3-PFHxS	IS		111	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C9-PFNA	IS		98.1	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C2-8:2 FTS	IS		76.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C6-PFDA	IS		106	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d3-MeFOSAA	IS		105	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C8-PFOS	IS		112	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d5-EtFOSAA	IS		115	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C7-PFUnA	IS		97.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C8-PFOSA	IS		99.7	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C2-PFDoA	IS		83.1	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C2-PFTeDA	IS		77.4	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d7-MeFOSE	IS		76.3	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d3-MeFOSA	IS		78.8	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d9-EtFOSE	IS		61.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d5-EtFOSA	IS		89.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1

Sample ID: PP-GM-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-01	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GEODUCK								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1

Sample ID: PP-GM-01					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-01		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GEODUCK									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	94.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C5-PFPeA	IS	84.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C2-4:2 FTS	IS	121	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C3-PFBS	IS	90.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C5-PFHxA	IS	96.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C4-PFHpA	IS	94.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C3-HFPO-DA	IS	92.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C2-6:2 FTS	IS	104	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C8-PFOA	IS	70.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C3-PFHxS	IS	89.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C9-PFNA	IS	88.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C2-8:2 FTS	IS	99.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C6-PFDA	IS	91.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
d3-MeFOSAA	IS	66.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C8-PFOS	IS	73.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
d5-EtFOSAA	IS	65.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C7-PFUnA	IS	85.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C8-PFOSA	IS	72.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C2-PFDoA	IS	50.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
13C2-PFTeDA	IS	22.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
d7-MeFOSE	IS	42.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
d3-MeFOSA	IS	46.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
d9-EtFOSE	IS	36.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	
d5-EtFOSA	IS	42.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 17:59	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PP-GM-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-02	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GEODUCK								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1

Sample ID: PP-GM-02					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-02		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GEODUCK									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	91.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C5-PFPeA	IS	86.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C2-4:2 FTS	IS	118	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C3-PFBS	IS	91.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C5-PFHxA	IS	98.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C4-PFHpA	IS	90.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C3-HFPO-DA	IS	90.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C2-6:2 FTS	IS	105	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C8-PFOA	IS	75.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C3-PFHxS	IS	92.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C9-PFNA	IS	91.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C2-8:2 FTS	IS	100	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C6-PFDA	IS	97.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
d3-MeFOSAA	IS	79.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C8-PFOS	IS	82.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
d5-EtFOSAA	IS	77.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C7-PFUnA	IS	77.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C8-PFOSA	IS	72.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C2-PFDoA	IS	47.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
13C2-PFTeDA	IS	16.6	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
d7-MeFOSE	IS	35.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
d3-MeFOSA	IS	40.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
d9-EtFOSE	IS	29.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	
d5-EtFOSA	IS	36.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:13	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PP-GM-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-03	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GEODUCK								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1

Sample ID: PP-GM-03					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-03		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GEODUCK									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	93.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C5-PFPeA	IS	87.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C2-4:2 FTS	IS	118	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C3-PFBS	IS	93.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C5-PFHxA	IS	95.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C4-PFHpA	IS	90.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C3-HFPO-DA	IS	99.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C2-6:2 FTS	IS	105	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C8-PFOA	IS	78.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C3-PFHxS	IS	98.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C9-PFNA	IS	89.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C2-8:2 FTS	IS	104	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C6-PFDA	IS	88.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
d3-MeFOSAA	IS	68.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C8-PFOS	IS	86.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
d5-EtFOSAA	IS	66.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C7-PFUnA	IS	79.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C8-PFOSA	IS	71.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C2-PFDoA	IS	60.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
13C2-PFTeDA	IS	34.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
d7-MeFOSE	IS	43.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
d3-MeFOSA	IS	51.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
d9-EtFOSE	IS	41.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	
d5-EtFOSA	IS	48.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:26	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PP-GM-04					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: GEODUCK					Laboratory Data Lab Sample: 2409185-04 Date Received: 24-Sep-24 07:53 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFOuA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1

Sample ID: PP-GM-04					EPA Method 1633				
Client Data					Laboratory Data				
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-04		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	GEODUCK								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	95.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C5-PFPeA	IS	87.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C2-4:2 FTS	IS	112	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C3-PFBS	IS	88.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C5-PFHxA	IS	98.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C4-PFHpA	IS	96.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C3-HFPO-DA	IS	101	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C2-6:2 FTS	IS	103	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C8-PFOA	IS	80.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C3-PFHxS	IS	91.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C9-PFNA	IS	85.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C2-8:2 FTS	IS	87.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C6-PFDA	IS	83.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
d3-MeFOSAA	IS	71.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C8-PFOS	IS	75.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
d5-EtFOSAA	IS	69.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C7-PFUnA	IS	68.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C8-PFOSA	IS	66.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C2-PFDoA	IS	55.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
13C2-PFTeDA	IS	34.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
d7-MeFOSE	IS	45.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
d3-MeFOSA	IS	43.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
d9-EtFOSE	IS	40.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1
d5-EtFOSA	IS	43.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:40	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PP-GB-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-05	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GUTBALL								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1

Sample ID: PP-GB-01					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-05		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GUTBALL									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	89.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C5-PFPeA	IS	80.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C2-4:2 FTS	IS	130	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C3-PFBS	IS	94.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C5-PFHxA	IS	96.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C4-PFHpA	IS	92.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C3-HFPO-DA	IS	87.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C2-6:2 FTS	IS	144	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C8-PFOA	IS	86.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C3-PFHxS	IS	92.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C9-PFNA	IS	90.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C2-8:2 FTS	IS	177	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C6-PFDA	IS	110	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
d3-MeFOSAA	IS	102	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C8-PFOS	IS	85.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
d5-EtFOSAA	IS	119	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C7-PFUnA	IS	98.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C8-PFOSA	IS	66.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C2-PFDoA	IS	86.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
13C2-PFTeDA	IS	31.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
d7-MeFOSE	IS	2.68	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
d3-MeFOSA	IS	22.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
d9-EtFOSE	IS	19.6	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	
d5-EtFOSA	IS	23.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 18:53	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PP-GB-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-06	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GUTBALL								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1

Sample ID: PP-GB-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-06		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	GUTBALL								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	42.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C5-PFPeA	IS	65.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C2-4:2 FTS	IS	130	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C3-PFBS	IS	89.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C5-PFHxA	IS	87.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C4-PFHpA	IS	86.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C3-HFPO-DA	IS	80.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C2-6:2 FTS	IS	147	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C8-PFOA	IS	77.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C3-PFHxS	IS	90.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C9-PFNA	IS	91.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C2-8:2 FTS	IS	166	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C6-PFDA	IS	108	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
d3-MeFOSAA	IS	99.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C8-PFOS	IS	83.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
d5-EtFOSAA	IS	109	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C7-PFUnA	IS	99.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C8-PFOSA	IS	81.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C2-PFDoA	IS	76.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
13C2-PFTeDA	IS	19.5	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
d7-MeFOSE	IS	1.99	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
d3-MeFOSA	IS	20.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
d9-EtFOSE	IS	5.49	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1
d5-EtFOSA	IS	17.3	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 19:07	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PP-GB-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-07	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GUTBALL								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1

Sample ID: PP-GB-03					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-07		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GUTBALL									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	86.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C5-PFPeA	IS	85.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C2-4:2 FTS	IS	137	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C3-PFBS	IS	92.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C5-PFHxA	IS	107	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C4-PFHpA	IS	99.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C3-HFPO-DA	IS	94.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C2-6:2 FTS	IS	142	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C8-PFOA	IS	85.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C3-PFHxS	IS	91.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C9-PFNA	IS	93.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C2-8:2 FTS	IS	132	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C6-PFDA	IS	96.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
d3-MeFOSAA	IS	86.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C8-PFOS	IS	79.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
d5-EtFOSAA	IS	88.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C7-PFUnA	IS	82.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C8-PFOSA	IS	61.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C2-PFDoA	IS	50.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
13C2-PFTeDA	IS	14.6	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
d7-MeFOSE	IS	26.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
d3-MeFOSA	IS	23.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
d9-EtFOSE	IS	20.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	
d5-EtFOSA	IS	19.2	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 19:20	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PP-GB-04					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-08	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GUTBALL								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFMPA	ND	0.452	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
3:3 FTCA	ND	1.26	2.46		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFPeA	ND	0.354	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFMBA	ND	0.396	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFBS	ND	0.215	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
4:2 FTS	ND	0.979	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFHxA	ND	0.176	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFEESA	ND	0.267	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFPeS	ND	0.236	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
HFPO-DA	ND	0.909	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
NFDHA	ND	0.366	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
5:3 FTCA	ND	3.91	14.8		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFHpA	ND	0.166	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
ADONA	ND	0.564	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFHxS	ND	0.265	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
6:2 FTS	ND	0.766	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFOA	ND	0.188	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFHpS	ND	0.156	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
7:3 FTCA	ND	4.80	14.8		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFNA	ND	0.180	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFOSA	ND	0.196	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFOS	ND	0.365	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
9Cl-PF3ONS	ND	0.648	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFDA	ND	0.170	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
8:2 FTS	ND	0.964	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFNS	ND	0.217	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
MeFOSAA	ND	0.321	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
EtFOSAA	ND	0.276	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFUnA	ND	0.133	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFDS	ND	0.258	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
11Cl-PF3OUdS	ND	0.877	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFDoA	ND	0.142	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
MeFOSA	ND	0.252	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFTTrDA	ND	0.175	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFDoS	ND	0.204	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1
PFTeDA	ND	0.160	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1

Sample ID: PP-GB-04					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-08		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	21-Feb-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	GUTBALL									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
MeFOSE	ND	1.67	4.93		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
EtFOSE	ND	2.03	4.93		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	109	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C5-PFPeA	IS	95.3	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C2-4:2 FTS	IS	151	20 - 150	Q	B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C3-PFBS	IS	98.5	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C5-PFHxA	IS	110	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C4-PFHpA	IS	105	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C3-HFPO-DA	IS	99.3	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C2-6:2 FTS	IS	142	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C8-PFOA	IS	94.7	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C3-PFHxS	IS	110	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C9-PFNA	IS	102	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C2-8:2 FTS	IS	154	20 - 150	Q	B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C6-PFDA	IS	121	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
d3-MeFOSAA	IS	108	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C8-PFOS	IS	114	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
d5-EtFOSAA	IS	131	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C7-PFUnA	IS	102	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C8-PFOSA	IS	90.3	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C2-PFDoA	IS	78.3	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
13C2-PFTeDA	IS	20.8	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
d7-MeFOSE	IS	34.7	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
d3-MeFOSA	IS	28.1	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
d9-EtFOSE	IS	25.7	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	
d5-EtFOSA	IS	22.1	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 14:22	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PC-DM-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-09	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	27-Mar-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	DUNGENESS								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFOSA	0.827	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1

Sample ID: PC-DM-01 **EPA Method 1633**

Client Data				Laboratory Data			
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-09	Column:	BEH C18
Project:	SHELLFISH PFAS	Date Collected:	27-Mar-24 00:00	Date Received:	24-Sep-24 07:53		
Location:	DUNGENESS						

Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	21.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C5-PFPeA	IS	26.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C2-4:2 FTS	IS	37.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C3-PFBS	IS	39.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C5-PFHxA	IS	38.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C4-PFHpA	IS	46.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C3-HFPO-DA	IS	35.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C2-6:2 FTS	IS	55.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C8-PFOA	IS	49.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C3-PFHxS	IS	59.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C9-PFNA	IS	67.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C2-8:2 FTS	IS	62.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C6-PFDA	IS	64.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
d3-MeFOSAA	IS	45.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C8-PFOS	IS	67.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
d5-EtFOSAA	IS	45.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C7-PFUnA	IS	51.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C8-PFOSA	IS	32.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C2-PFDoA	IS	48.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
13C2-PFTeDA	IS	52.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
d7-MeFOSE	IS	32.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
d3-MeFOSA	IS	25.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
d9-EtFOSE	IS	32.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1
d5-EtFOSA	IS	29.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 19:47	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PC-DH-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-10	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	27-Mar-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	HEPATOPANCREAS								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1

Sample ID: PC-DH-01					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-10		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	27-Mar-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	HEPATOPANCREAS									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	92.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C5-PFPeA	IS	97.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C2-4:2 FTS	IS	142	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C3-PFBS	IS	77.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C5-PFHxA	IS	104	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C4-PFHpA	IS	105	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C3-HFPO-DA	IS	74.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C2-6:2 FTS	IS	137	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C8-PFOA	IS	73.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C3-PFHxS	IS	94.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C9-PFNA	IS	101	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C2-8:2 FTS	IS	156	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C6-PFDA	IS	117	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
d3-MeFOSAA	IS	108	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C8-PFOS	IS	92.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
d5-EtFOSAA	IS	103	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C7-PFUnA	IS	104	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C8-PFOSA	IS	95.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C2-PFDoA	IS	99.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
13C2-PFTeDA	IS	116	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
d7-MeFOSE	IS	7.39	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
d3-MeFOSA	IS	28.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
d9-EtFOSE	IS	26.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	
d5-EtFOSA	IS	35.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 20:01	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: CSP-BC-01					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: BUTTER					Laboratory Data Lab Sample: 2409185-11 Date Received: 24-Sep-24 07:53 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.625	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFMPA	ND	0.459	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
3:3 FTCA	ND	1.28	2.50		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFPeA	ND	0.359	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFMBA	ND	0.402	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFBS	ND	0.218	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
4:2 FTS	ND	0.994	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFHxA	ND	0.179	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFEESA	ND	0.271	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFPeS	ND	0.240	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
HFPO-DA	ND	0.923	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
NFDHA	ND	0.371	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
5:3 FTCA	ND	3.97	15.0		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFHpA	ND	0.168	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
ADONA	ND	0.572	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFHxS	ND	0.269	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
6:2 FTS	ND	0.777	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFOA	ND	0.191	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFHpS	ND	0.158	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
7:3 FTCA	ND	4.87	15.0		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFNA	ND	0.183	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFOSA	ND	0.199	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFOS	ND	0.370	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
9Cl-PF3ONS	ND	0.658	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFDA	ND	0.173	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
8:2 FTS	ND	0.978	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFNS	ND	0.220	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
MeFOSAA	ND	0.326	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
EtFOSAA	ND	0.280	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFOuA	ND	0.135	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFDS	ND	0.262	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
11Cl-PF3OUdS	ND	0.890	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFDoA	ND	0.144	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
MeFOSA	ND	0.256	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFTTrDA	ND	0.178	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFDoS	ND	0.207	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
PFTeDA	ND	0.162	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1

Sample ID: CSP-BC-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-11		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.311	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
MeFOSE	ND	1.70	5.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
EtFOSE	ND	2.06	5.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	38.3	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C5-PFPeA	IS	94.8	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C2-4:2 FTS	IS	172	20 - 150	Q	B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C3-PFBS	IS	109	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C5-PFHxA	IS	108	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C4-PFHpA	IS	102	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C3-HFPO-DA	IS	102	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C2-6:2 FTS	IS	134	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C8-PFOA	IS	104	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C3-PFHxS	IS	111	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C9-PFNA	IS	107	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C2-8:2 FTS	IS	212	20 - 150	Q	B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C6-PFDA	IS	117	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
d3-MeFOSAA	IS	107	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C8-PFOS	IS	118	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
d5-EtFOSAA	IS	144	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C7-PFUnA	IS	83.5	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C8-PFOSA	IS	117	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C2-PFDoA	IS	63.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
13C2-PFTeDA	IS	39.1	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
d7-MeFOSE	IS	45.8	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
d3-MeFOSA	IS	53.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
d9-EtFOSE	IS	43.0	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1
d5-EtFOSA	IS	57.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 14:36	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: CAR-BC-01					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: BUTTER					Laboratory Data Lab Sample: 2409185-12 Date Received: 24-Sep-24 07:53 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.610	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFMPA	ND	0.448	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
3:3 FTCA	ND	1.25	2.44		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFPeA	ND	0.350	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFMBA	ND	0.392	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFBS	ND	0.213	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
4:2 FTS	ND	0.970	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFHxA	ND	0.175	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFEESA	ND	0.264	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFPeS	ND	0.234	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
HFPO-DA	ND	0.900	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
NFDHA	ND	0.362	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
5:3 FTCA	ND	3.87	14.6		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFHpA	ND	0.164	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
ADONA	ND	0.558	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFHxS	ND	0.262	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
6:2 FTS	ND	0.758	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFOA	ND	0.186	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFHpS	ND	0.154	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
7:3 FTCA	ND	4.75	14.6		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFNA	ND	0.179	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFOSA	ND	0.194	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFOS	ND	0.361	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
9Cl-PF3ONS	ND	0.642	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFDA	ND	0.169	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
8:2 FTS	ND	0.954	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFNS	ND	0.215	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
MeFOSAA	ND	0.318	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
EtFOSAA	ND	0.273	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFOuA	ND	0.132	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFDS	ND	0.256	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
11Cl-PF3OUdS	ND	0.868	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFDoA	ND	0.140	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
MeFOSA	ND	0.250	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFTTrDA	ND	0.174	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFDoS	ND	0.202	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1
PFTeDA	ND	0.158	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1

Sample ID: CAR-BC-01					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-12		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.303	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
MeFOSE	ND	1.66	4.88		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
EtFOSE	ND	2.01	4.88		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	112	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C5-PFPeA	IS	95.3	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C2-4:2 FTS	IS	180	20 - 150	Q	B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C3-PFBS	IS	113	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C5-PFHxA	IS	107	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C4-PFHpA	IS	102	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C3-HFPO-DA	IS	104	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C2-6:2 FTS	IS	141	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C8-PFOA	IS	92.0	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C3-PFHxS	IS	116	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C9-PFNA	IS	101	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C2-8:2 FTS	IS	213	20 - 150	Q	B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C6-PFDA	IS	124	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
d3-MeFOSAA	IS	107	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C8-PFOS	IS	117	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
d5-EtFOSAA	IS	127	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C7-PFUnA	IS	98.2	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C8-PFOSA	IS	104	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C2-PFDoA	IS	92.6	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
13C2-PFTeDA	IS	102	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
d7-MeFOSE	IS	59.9	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
d3-MeFOSA	IS	45.5	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
d9-EtFOSE	IS	55.6	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	
d5-EtFOSA	IS	52.6	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 14:49	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: CAR-BC-02					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: BUTTER					Laboratory Data Lab Sample: 2409185-13 Date Received: 24-Sep-24 07:53 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFMPA	ND	0.452	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
3:3 FTCA	ND	1.26	2.46		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFPeA	ND	0.354	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFMBA	ND	0.396	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFBS	ND	0.215	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
4:2 FTS	ND	0.979	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFHxA	ND	0.176	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFEESA	ND	0.267	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFPeS	ND	0.236	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
HFPO-DA	ND	0.909	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
NFDHA	ND	0.366	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
5:3 FTCA	ND	3.91	14.8		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFHpA	ND	0.166	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
ADONA	ND	0.564	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFHxS	ND	0.265	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
6:2 FTS	ND	0.766	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFOA	ND	0.188	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFHpS	ND	0.156	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
7:3 FTCA	ND	4.80	14.8		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFNA	ND	0.180	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFOSA	ND	0.196	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFOS	ND	0.365	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
9Cl-PF3ONS	ND	0.648	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFDA	ND	0.170	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
8:2 FTS	ND	0.964	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFNS	ND	0.217	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
MeFOSAA	ND	0.321	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
EtFOSAA	ND	0.276	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFOuA	ND	0.133	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFDS	ND	0.258	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
11Cl-PF3OUdS	ND	0.877	1.97		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFDoA	ND	0.142	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
MeFOSA	ND	0.252	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFTTrDA	ND	0.175	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFDoS	ND	0.204	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1
PFTeDA	ND	0.160	0.493		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1

Sample ID: CAR-BC-02					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-13		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
MeFOSE	ND	1.67	4.93		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
EtFOSE	ND	2.03	4.93		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	114	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C5-PFPeA	IS	97.1	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C2-4:2 FTS	IS	171	20 - 150	Q	B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C3-PFBS	IS	115	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C5-PFHxA	IS	113	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C4-PFHpA	IS	100	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C3-HFPO-DA	IS	105	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C2-6:2 FTS	IS	129	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C8-PFOA	IS	98.3	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C3-PFHxS	IS	115	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C9-PFNA	IS	104	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C2-8:2 FTS	IS	185	20 - 150	Q	B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C6-PFDA	IS	115	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
d3-MeFOSAA	IS	115	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C8-PFOS	IS	121	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
d5-EtFOSAA	IS	150	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C7-PFUnA	IS	85.4	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C8-PFOSA	IS	111	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C2-PFDoA	IS	84.1	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
13C2-PFTeDA	IS	83.6	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
d7-MeFOSE	IS	62.8	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
d3-MeFOSA	IS	50.3	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
d9-EtFOSE	IS	53.9	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	
d5-EtFOSA	IS	52.7	20 - 150		B24J065	10-Oct-24	2.03 g	15-Oct-24 15:03	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: CAR-BC-03					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: BUTTER					Laboratory Data Lab Sample: 2409185-14 Date Received: 24-Sep-24 07:53 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.619	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFMPA	ND	0.454	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
3:3 FTCA	ND	1.27	2.48		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFPeA	ND	0.355	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFMBA	ND	0.398	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFBS	ND	0.216	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
4:2 FTS	ND	0.984	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFHxA	ND	0.177	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFEESA	ND	0.268	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFPeS	ND	0.238	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
HFPO-DA	ND	0.914	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
NFDHA	ND	0.367	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
5:3 FTCA	ND	3.93	14.9		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFHpA	ND	0.166	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
ADONA	ND	0.566	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFHxS	ND	0.266	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
6:2 FTS	ND	0.769	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFOA	ND	0.189	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFHpS	ND	0.156	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
7:3 FTCA	ND	4.82	14.9		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFNA	ND	0.181	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFOSA	ND	0.197	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFOS	ND	0.366	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
9Cl-PF3ONS	ND	0.651	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFDA	ND	0.171	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
8:2 FTS	ND	0.968	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFNS	ND	0.218	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
MeFOSAA	ND	0.323	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
EtFOSAA	ND	0.277	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFOuA	ND	0.134	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFDS	ND	0.259	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
11Cl-PF3OUdS	ND	0.881	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFDoA	ND	0.143	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
MeFOSA	ND	0.253	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFTTrDA	ND	0.176	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFDoS	ND	0.205	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
PFTeDA	ND	0.160	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1

Sample ID: CAR-BC-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-14		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.308	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
MeFOSE	ND	1.68	4.95		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
EtFOSE	ND	2.04	4.95		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	105	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C5-PFPeA	IS	85.7	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C2-4:2 FTS	IS	186	20 - 150	Q	B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C3-PFBS	IS	98.4	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C5-PFHxA	IS	99.5	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C4-PFHpA	IS	94.7	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C3-HFPO-DA	IS	92.8	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C2-6:2 FTS	IS	120	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C8-PFOA	IS	81.4	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C3-PFHxS	IS	106	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C9-PFNA	IS	98.3	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C2-8:2 FTS	IS	207	20 - 150	Q	B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C6-PFDA	IS	117	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
d3-MeFOSAA	IS	100	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C8-PFOS	IS	110	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
d5-EtFOSAA	IS	126	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C7-PFUnA	IS	92.0	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C8-PFOSA	IS	101	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C2-PFDoA	IS	91.2	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
13C2-PFTeDA	IS	110	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
d7-MeFOSE	IS	58.2	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
d3-MeFOSA	IS	42.3	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
d9-EtFOSE	IS	55.2	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1
d5-EtFOSA	IS	52.2	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:16	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: CAR-BC-04					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Location: BUTTER					Laboratory Data Lab Sample: 2409185-15 Date Received: 24-Sep-24 07:53 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.613	1.96		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFMPA	ND	0.450	0.980		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
3:3 FTCA	ND	1.25	2.45		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFPeA	ND	0.352	0.980		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFMBA	ND	0.394	0.980		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFBS	ND	0.214	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
4:2 FTS	ND	0.975	1.96		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFHxA	ND	0.175	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFEESA	ND	0.266	0.980		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFPeS	ND	0.235	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
HFPO-DA	ND	0.905	1.96		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
NFDHA	ND	0.364	0.980		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
5:3 FTCA	ND	3.89	14.7		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFHpA	ND	0.165	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
ADONA	ND	0.561	1.96		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFHxS	ND	0.264	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
6:2 FTS	ND	0.762	1.96		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFOA	ND	0.187	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFHpS	ND	0.155	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
7:3 FTCA	ND	4.77	14.7		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFNA	ND	0.179	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFOSA	ND	0.195	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFOS	ND	0.363	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
9Cl-PF3ONS	ND	0.645	1.96		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFDA	ND	0.170	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
8:2 FTS	ND	0.959	1.96		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFNS	ND	0.216	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
MeFOSAA	ND	0.320	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
EtFOSAA	ND	0.275	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFOuA	ND	0.132	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFDS	ND	0.257	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
11Cl-PF3OUdS	ND	0.873	1.96		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFDoA	ND	0.141	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
MeFOSA	ND	0.251	0.980		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFTTrDA	ND	0.175	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFDoS	ND	0.203	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
PFTeDA	ND	0.159	0.490		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1

Sample ID: CAR-BC-04					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-15		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.305	0.980		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
MeFOSE	ND	1.67	4.90		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
EtFOSE	ND	2.02	4.90		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	107	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C5-PFPeA	IS	86.4	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C2-4:2 FTS	IS	166	20 - 150	Q	B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C3-PFBS	IS	103	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C5-PFHxA	IS	96.5	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C4-PFHpA	IS	94.1	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C3-HFPO-DA	IS	93.1	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C2-6:2 FTS	IS	116	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C8-PFOA	IS	92.8	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C3-PFHxS	IS	102	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C9-PFNA	IS	95.8	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C2-8:2 FTS	IS	178	20 - 150	Q	B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C6-PFDA	IS	110	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
d3-MeFOSAA	IS	103	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C8-PFOS	IS	107	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
d5-EtFOSAA	IS	126	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C7-PFUnA	IS	80.9	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C8-PFOSA	IS	100	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C2-PFDoA	IS	80.2	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
13C2-PFTeDA	IS	84.1	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
d7-MeFOSE	IS	58.3	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
d3-MeFOSA	IS	42.3	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
d9-EtFOSE	IS	51.4	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1
d5-EtFOSA	IS	47.0	20 - 150		B24J065	10-Oct-24	2.04 g	15-Oct-24 15:30	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SSP-BC-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-16	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.610	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFMPA	ND	0.448	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
3:3 FTCA	ND	1.25	2.44		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFPeA	ND	0.350	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFMBA	ND	0.392	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFBS	ND	0.213	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
4:2 FTS	ND	0.970	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFHxA	ND	0.175	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFEESA	ND	0.264	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFPeS	ND	0.234	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
HFPO-DA	ND	0.900	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
NFDHA	ND	0.362	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
5:3 FTCA	ND	3.87	14.6		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFHpA	ND	0.164	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
ADONA	ND	0.558	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFHxS	ND	0.262	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
6:2 FTS	ND	0.758	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFOA	ND	0.186	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFHpS	ND	0.154	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
7:3 FTCA	ND	4.75	14.6		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFNA	ND	0.179	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFOSA	ND	0.194	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFOS	ND	0.361	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
9Cl-PF3ONS	ND	0.642	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFDA	ND	0.169	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
8:2 FTS	ND	0.954	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFNS	ND	0.215	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
MeFOSAA	ND	0.318	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
EtFOSAA	ND	0.273	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFUnA	ND	0.132	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFDS	ND	0.256	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
11Cl-PF3OUdS	ND	0.868	1.95		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFDoA	ND	0.140	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
MeFOSA	ND	0.250	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFTTrDA	ND	0.174	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFDoS	ND	0.202	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
PFTeDA	ND	0.158	0.488		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1

Sample ID: SSP-BC-01 **EPA Method 1633**

Client Data				Laboratory Data			
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-16	Column:	BEH C18
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53		
Location:	BUTTER						

Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.303	0.976		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
MeFOSE	ND	1.66	4.88		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
EtFOSE	ND	2.01	4.88		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	108	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C5-PFPeA	IS	89.8	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C2-4:2 FTS	IS	165	20 - 150	Q	B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C3-PFBS	IS	103	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C5-PFHxA	IS	112	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C4-PFHpA	IS	100	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C3-HFPO-DA	IS	98.2	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C2-6:2 FTS	IS	130	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C8-PFOA	IS	92.3	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C3-PFHxS	IS	110	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C9-PFNA	IS	98.3	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C2-8:2 FTS	IS	203	20 - 150	Q	B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C6-PFDA	IS	118	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
d3-MeFOSAA	IS	110	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C8-PFOS	IS	116	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
d5-EtFOSAA	IS	130	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C7-PFUnA	IS	87.4	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C8-PFOSA	IS	114	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C2-PFDoA	IS	94.1	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
13C2-PFTeDA	IS	101	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
d7-MeFOSE	IS	48.0	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
d3-MeFOSA	IS	40.0	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
d9-EtFOSE	IS	49.6	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1
d5-EtFOSA	IS	47.8	20 - 150		B24J065	10-Oct-24	2.05 g	15-Oct-24 15:43	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SSP-BC-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-17	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1

Sample ID: SSP-BC-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-17		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	76.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C5-PFPeA	IS	79.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C2-4:2 FTS	IS	148	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C3-PFBS	IS	87.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C5-PFHxA	IS	92.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C4-PFHpA	IS	90.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C3-HFPO-DA	IS	91.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C2-6:2 FTS	IS	135	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C8-PFOA	IS	79.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C3-PFHxS	IS	99.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C9-PFNA	IS	93.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C2-8:2 FTS	IS	208	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C6-PFDA	IS	112	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
d3-MeFOSAA	IS	100	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C8-PFOS	IS	94.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
d5-EtFOSAA	IS	110	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C7-PFUnA	IS	84.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C8-PFOSA	IS	96.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C2-PFDoA	IS	90.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
13C2-PFTeDA	IS	85.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
d7-MeFOSE	IS	33.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
d3-MeFOSA	IS	30.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
d9-EtFOSE	IS	40.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1
d5-EtFOSA	IS	37.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:16	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SSP-BC-03

EPA Method 1633

Client Data				Laboratory Data			
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-18	Column:	BEH C18
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53		
Location:	BUTTER						

Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1

Sample ID: SSP-BC-03					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-18		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	42.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C5-PFPeA	IS	79.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C2-4:2 FTS	IS	156	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C3-PFBS	IS	83.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C5-PFHxA	IS	95.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C4-PFHpA	IS	91.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C3-HFPO-DA	IS	88.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C2-6:2 FTS	IS	143	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C8-PFOA	IS	79.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C3-PFHxS	IS	95.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C9-PFNA	IS	95.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C2-8:2 FTS	IS	199	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C6-PFDA	IS	107	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
d3-MeFOSAA	IS	92.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C8-PFOS	IS	89.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
d5-EtFOSAA	IS	103	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C7-PFUnA	IS	80.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C8-PFOSA	IS	101	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C2-PFDoA	IS	79.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
13C2-PFTeDA	IS	57.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
d7-MeFOSE	IS	16.7	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
d3-MeFOSA	IS	26.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
d9-EtFOSE	IS	28.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	
d5-EtFOSA	IS	29.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:30	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: SSP-BC-03
EPA Method 1633

Name:	Washington State Department of Health	Lab Sample:	B24I177-MS1/B24I177-MSD1	Source Lab Sample:	2409185-18
Project:	SHELLFISH PFAS	QC Batch:	B24I177	Date Extracted:	30-Sep-24
Matrix:	Tissue	Samp Size:	2.03/2.03 g	Column:	BEH C18

Analyte	Sample (ng/g)	MS (ng/g)	MS Spike	MS % Rec	MS Quals	MSD (ng/g)	MSD Spike	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBA	ND	5.99	4.93	121		5.88	4.93	119	1.67		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFMPA	ND	3.13	2.46	127		3.12	2.46	127	0		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
3:3 FTCA	ND	6.95	6.16	113		6.55	6.16	106	6.39		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFPeA	ND	2.65	2.46	108	I	2.71	2.46	110	1.83	I	40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFMBA	ND	3.08	2.46	125		3.15	2.46	128	2.37		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFBS	ND	1.15	1.09	105		1.07	1.09	98.5	6.39		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
4:2 FTS	ND	5.26	4.62	114		5.38	4.62	116	1.74		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFHxA	ND	1.15	1.23	93.3		1.16	1.23	94.3	1.07		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFEESA	ND	2.12	2.19	96.8		2.10	2.19	95.9	0.934		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFPeS	ND	1.01	1.16	86.7		1.08	1.16	92.8	6.8		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
HFPO-DA	ND	5.67	5.21	109		5.56	5.21	107	1.85		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
NFDHA	ND	2.53	2.46	103		2.53	2.46	103	0		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
5:3 FTCA	ND	28.9	30.7	94.1		27.0	30.7	87.9	6.81		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFHpA	ND	1.36	1.23	111		1.38	1.23	112	0.897		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
ADONA	ND	5.86	4.93	119		5.57	4.93	113	5.17		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFHxS	ND	1.14	1.12	102		1.18	1.12	105	2.9		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
6:2 FTS	ND	5.04	4.68	108		4.81	4.68	103	4.74		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFOA	ND	1.50	1.23	122		1.49	1.23	121	0.823		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFHpS	ND	1.16	1.17	98.9		1.10	1.17	94.4	4.66		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
7:3 FTCA	ND	35.7	30.7	116		29.5	30.7	95.7	19.2		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFNA	ND	1.58	1.23	129		1.60	1.23	130	0.772		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFOSA	ND	1.41	1.23	114		1.38	1.23	111	2.67		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFOS	ND	1.22	1.14	107		1.21	1.14	106	0.939		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
9Cl-PF3ONS	ND	6.29	4.88	129		6.22	4.88	127	1.56		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFDA	ND	1.31	1.23	106		1.35	1.23	110	3.7		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
8:2 FTS	ND	5.09	4.73	108		5.31	4.73	112	3.64		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFNS	ND	1.18	1.18	100.0		1.24	1.18	105	4.88		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
MeFOSAA	ND	1.59	1.23	129		1.51	1.23	123	4.76		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
EtFOSAA	ND	1.33	1.23	108		1.24	1.23	101	6.7		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFUnA	ND	1.22	1.23	99.0		1.45	1.23	118	17.5		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFDS	ND	0.934	1.19	78.5		0.842	1.19	70.8	10.3		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
11Cl-PF3OUdS	ND	4.83	4.93	98.0		4.12	4.93	83.5	16		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFDaA	ND	1.46	1.23	118		1.35	1.23	110	7.02		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1

Sample ID: SSP-BC-03
EPA Method 1633

Name:	Washington State Department of Health	Lab Sample:	B24I177-MS1/B24I177-MSD1	Source Lab Sample:	2409185-18
Project:	SHELLFISH PFAS	QC Batch:	B24I177	Date Extracted:	30-Sep-24
Matrix:	Tissue	Samp Size:	2.03/2.03 g	Column:	BEH C18

Analyte	Sample (ng/g)	MS (ng/g)	MS Spike	MS % Rec	MS Quals	MSD (ng/g)	MSD Spike	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
MeFOSA	ND	1.35	1.23	110		1.36	1.23	110	0		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFTTrDA	ND	1.52	1.23	122		1.48	1.23	119	2.49		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFDoS	ND	0.830	1.19	69.7		0.773	1.19	65.0	6.98		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
PFTeDA	ND	1.60	1.23	130		1.52	1.23	124	4.72		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
EtFOSA	ND	1.30	1.23	105		1.36	1.23	111	5.56		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
MeFOSE	ND	17.8	12.3	145		16.2	12.3	132	9.39		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1
EtFOSE	ND	13.0	12.3	106		13.7	12.3	111	4.61		40-150	30	03-Oct-24 17:32	1	03-Oct-24 17:46	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C4-PFBA	IS	65.2		71.8		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C5-PFPeA	IS	79.8		79.4		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C2-4:2 FTS	IS	166	Q	150		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C3-PFBS	IS	90.9		88.7		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C5-PFHxA	IS	100		101		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C4-PFHpA	IS	91.8		93.5		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C3-HFPO-DA	IS	84.1		87.9		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C2-6:2 FTS	IS	141		132		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C8-PFOA	IS	76.8		68.4		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C3-PFHxS	IS	104		101		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C9-PFNA	IS	87.8		88.8		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C2-8:2 FTS	IS	208	Q	189	Q	20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C6-PFDA	IS	115		104		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
d3-MeFOSAA	IS	92.6		82.8		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C8-PFOS	IS	88.1		90.7		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
d5-EtFOSAA	IS	98.1		89.7		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C7-PFUnA	IS	90.9		82.3		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C8-PFOSA	IS	81.2		72.4		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C2-PFDoA	IS	86.4		82.4		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
13C2-PFTeDA	IS	68.3		69.5		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
d7-MeFOSE	IS	28.5		34.3		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
d3-MeFOSA	IS	26.3		27.0		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
d9-EtFOSE	IS	31.3		30.1		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1
d5-EtFOSA	IS	33.9		32.0		20 - 150	03-Oct-24 17:32	1	03-Oct-24 17:46	1

Sample ID: SSP-BC-04					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-19	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1

Sample ID: SSP-BC-04					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-19		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	09-May-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	80.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C5-PFPeA	IS	78.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C2-4:2 FTS	IS	163	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C3-PFBS	IS	87.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C5-PFHxA	IS	93.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C4-PFHpA	IS	89.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C3-HFPO-DA	IS	87.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C2-6:2 FTS	IS	141	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C8-PFOA	IS	76.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C3-PFHxS	IS	102	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C9-PFNA	IS	86.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C2-8:2 FTS	IS	211	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C6-PFDA	IS	104	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
d3-MeFOSAA	IS	105	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C8-PFOS	IS	95.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
d5-EtFOSAA	IS	106	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C7-PFUnA	IS	82.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C8-PFOSA	IS	94.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C2-PFDoA	IS	92.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
13C2-PFTeDA	IS	86.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
d7-MeFOSE	IS	37.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
d3-MeFOSA	IS	30.2	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
d9-EtFOSE	IS	40.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1
d5-EtFOSA	IS	37.4	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:43	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCK-BC-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409185-20	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFMPA	ND	0.452	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
3:3 FTCA	ND	1.26	2.46		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFPeA	ND	0.354	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFMBA	ND	0.396	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFBS	ND	0.215	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
4:2 FTS	ND	0.979	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFHxA	ND	0.176	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFEESA	ND	0.267	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFPeS	ND	0.236	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
HFPO-DA	ND	0.909	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
NFDHA	ND	0.366	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
5:3 FTCA	ND	3.91	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFHpA	ND	0.166	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
ADONA	ND	0.564	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFHxS	ND	0.265	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
6:2 FTS	ND	0.766	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFOA	ND	0.188	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFHpS	ND	0.156	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
7:3 FTCA	ND	4.80	14.8		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFNA	ND	0.180	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFOSA	ND	0.196	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFOS	ND	0.365	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
9Cl-PF3ONS	ND	0.648	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFDA	ND	0.170	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
8:2 FTS	ND	0.964	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFNS	ND	0.217	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
MeFOSAA	ND	0.321	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
EtFOSAA	ND	0.276	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFUnA	ND	0.133	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFDS	ND	0.258	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFDoA	ND	0.142	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
MeFOSA	ND	0.252	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFTTrDA	ND	0.175	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFDoS	ND	0.204	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
PFTeDA	ND	0.160	0.493		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1

Sample ID: PCK-BC-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409185-20		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
MeFOSE	ND	1.67	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
EtFOSE	ND	2.03	4.93		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	76.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C5-PFPeA	IS	79.0	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C2-4:2 FTS	IS	164	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C3-PFBS	IS	86.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C5-PFHxA	IS	93.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C4-PFHpA	IS	87.5	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C3-HFPO-DA	IS	87.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C2-6:2 FTS	IS	141	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C8-PFOA	IS	72.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C3-PFHxS	IS	96.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C9-PFNA	IS	95.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C2-8:2 FTS	IS	181	20 - 150	Q	B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C6-PFDA	IS	113	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
d3-MeFOSAA	IS	91.3	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C8-PFOS	IS	87.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
d5-EtFOSAA	IS	104	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C7-PFUnA	IS	97.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C8-PFOSA	IS	78.8	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C2-PFDoA	IS	94.7	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
13C2-PFTeDA	IS	80.6	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
d7-MeFOSE	IS	49.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
d3-MeFOSA	IS	34.9	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
d9-EtFOSE	IS	44.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1
d5-EtFOSA	IS	38.1	20 - 150		B24I177	30-Sep-24	2.03 g	03-Oct-24 22:57	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

DATA QUALIFIERS & ABBREVIATIONS

For EPA 1633

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
I	Ion transition ratio is outside of the acceptance criteria.
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	Recovery and/or RPD was outside laboratory acceptance limits
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at [Enthalpy.com/Resources/Accreditations](https://enthalpy.com/Resources/Accreditations).



CHAIN OF CUSTODY

PFAS Methods

For Laboratory Use Only
Work Order #: 2409185 Temp: 1.5 °C
Storage ID: WF-2 Storage Secured: ☒ Yes ☐ No

Project ID: SHELLFISH PFAS PO#: T160435 Sampler: EMERSON CHRISTIE (name)
TAT (check one): ☐ 21 days ☐ 14 days ☐ 7 days Other: _____
Rush (surcharge may apply): ☐ 14 days ☐ 7 days Other: _____

Invoice to: Name WA DOH Company _____ Address 111 ISRAEL RD SE City TUMWATER State WA Phone # 564 669 4325

Relinquished by (printed name and signature) EMERSON CHRISTIE Date 9/19/24 Time _____ Received by (printed name and signature) Xitahy Olivos Date 09/24/24 Time 07:53
Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

SHIP TO: Enthality Analytical - EDH 1104 Windfield Way El Dorado Hills, CA 95762 (916) 673-1520			Method of Shipment:		Add Analysis(es) Requested										
ATTN: _____			Tracking No.: _____		Container(s)										
Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1631-Dist	EPA 1631-FINAL	DoD QSM Table B-15	Other	EPA 533	EPA 537.1	List of 29 (537.1 + 533)	Drinking Water
PP-GM-01	2/21/24		GEODUCK	1	T		X								
PP-GM-02	2/21/24		GEODUCK	1	T		X								
PP-GM-03	2/21/24		GEODUCK	1	T		X								
PP-GM-04	2/21/24		GEODUCK	1	T		X								
PP-GB-01	2/21/24		GUTBALL	1	T		X								
PP-GB-02	2/21/24		GUTBALL	1	T		X								
PP-GB-03	2/21/24		GUTBALL	1	T		X								
PP-GB-04	2/21/24		GUTBALL	1	T		X								
PC-DH-01	3/27/24		DUNGENESS	1	T		X								
PC-DH-01	3/27/24		HEPATOPANCREAS	1	T		X								

- Requirements:
- ☐ State-specific (list state): _____
 - ☐ DoD QSM Compliant
 - ☐ PFAS List Below (or attach compound list): _____

Other Instructions/ Comments:

SEND
DOCUMENTATION
AND RESULTS TO:

Name: EMERSON CHRISTIE
Company: WA DOH
Address: 111 ISRAEL RD SE
City: TUMWATER State: WA Zip: 98501
Phone: 564 669 4325
Email: EMERSON.CHRISTIE@DOH.WA.GOV

Container Types: P= HDPE, PJ= HDPE Jar
PY= Polypropylene, O = Other: _____
Bottle Preservation Type:
TZ = Trizma: _____ AA = Amm. Acetate: _____
Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, SD = Sediment, T=Tissue
SL = Sludge, SO = Soil WW = Wastewater, O = Other: _____



CHAIN OF CUSTODY

PFAS Methods

For Laboratory Use Only

Work Order #: 2409185 Temp: 1.5 °C
Storage ID: WF-2 Storage Secured: ☒ Yes ☐ No

Project ID: SHELLFISH PFAS PO#: T160435 Sampler: EMERSON CHRISTIE

TAT (check one): ☐ 21 days ☐ 14 days ☐ 7 days Other: ☒ Rush (surcharge may apply)

Invoice to: Name WA DOH Company 111 ISRAEL RD SE City TUMWATER WA State WA Phone # 564 669 4325

Relinquished by (printed name and signature) EMERSON CHRISTIE Date 9/19/24 Time Received by (printed name and signature) Xitally Olivos Date 09/24/24 Time 07:53

SHIP TO: Enthalpy Analytical - EDH
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520

Method of Shipment:

ATTN:

Tracking No.:

Add Analysis(es) Requested

Container(s)

PFAS by
Isotope
DilutionDrinking
Water

Requirements:

- ☐
- State-specific (list state):
-
- ☐
- DoD QSM Compliant
-
- ☐
- PFAS List Below (or attach compound list):

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1631 Draft	EPA 1631 FINAL	DoD QSM Table B-15	Other	EPA 533	EPA 537.1	List of 29 (537.1 + 533)
CSP-BC-01	6/6/24		BUTTER	1	T		X							
CAR-BC-01	5/4/24			1	T									
CAR-BC-02				1	T									
CAR-BC-03				1	T									
CAR-BC-04				1	T									
SSP-BC-01				1	T									
SSP-BC-02				1	T									
SSP-BC-03				1	T									
SSP-BC-04				1	T									
PLK-BC-01	6/6/24			1	T									

Other Instructions/ Comments:

USE SSP-BC-03 AS MS/MSD

SEND
DOCUMENTATION
AND RESULTS TO:Name: EMERSON CHRISTIE
Company: 111 ISRAEL RD SE WA DOH
Address: 5
City: TUMWATER State: WA Zip: 98501
Phone: 564 669 4325
Email: EMERSON.CHRISTIE@DOH.WA.GOVContainer Types: P= HDPE, PJ= HDPE Jar
PY= Polypropylene, O = Other:

Bottle Preservation Type:

TZ = Trizma

AA = Amm. Acetate:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, SD = Sediment, T=Tissue

SL = Sludge, SO = Soil, WW = Wastewater, O = Other:

ID: LR-COC

Rev. No. 4

Rev. Date: 6/28/2024

Page: 1 of 1

CoC/Label Reconciliation Report WO# 2409185

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2409185-01	A PP-GM-01	☒	GEODUCK	21-Feb-24 00:00	☐	Plastic Bag	Tissue	
2409185-02	A PP-GM-02	☒	GEODUCK	21-Feb-24 00:00	☐	Plastic Bag	Tissue	
2409185-03	A PP-GM-03	☒	GEODUCK	21-Feb-24 00:00	☐	Plastic Bag	Tissue	
2409185-04	A PP-GM-04	☒	GEODUCK	21-Feb-24 00:00	☐	Plastic Bag	Tissue	
2409185-05	A PP-GB-01	☒	GUTBALL	21-Feb-24 00:00	☐	Plastic Bag	Tissue	
2409185-06	A PP-GB-02	☒	GUTBALL	21-Feb-24 00:00	☐	Plastic Bag	Tissue	
2409185-07	A PP-GB-03	☒	GUTBALL	21-Feb-24 00:00	☐	Plastic Bag	Tissue	
2409185-08	A PP-GB-04	☒	GUTBALL	21-Feb-24 00:00	☐	Plastic Bag	Tissue	
2409185-09	A PC-DM-01	☒	DUNGNESS	27-Mar-24 00:00	☐	Plastic Bag	Tissue	
2409185-10	A PC-DH-01	☐ A	HEPATOPANCREAS	27-Mar-24 00:00	☐	Plastic Bag	Tissue	
2409185-11	A CSP-BC-01	☒	BUTTER	06-Jun-24 00:00	☐	Plastic Bag	Tissue	
2409185-12	A CAR-BC-01	☒	BUTTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2409185-13	A CAR-BC-02	☒	BUTTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2409185-14	A CAR-BC-03	☒	BUTTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2409185-15	A CAR-BC-04	☒	BUTTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2409185-16	A SSP-BC-01	☒	BUTTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2409185-17	A SSP-BC-02	☒	BUTTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2409185-18	A SSP-BC-03	☒	BUTTER	09-May-24 00:00	☐	Plastic Bag	Tissue	MS/MSD
2409185-19	A SSP-BC-04	☒	BUTTER	09-May-24 00:00	☐	Plastic Bag	Tissue	
2409185-20	A PCK-BC-01	☒	BUTTER	06-Jun-24 00:00	☐	Plastic Bag	Tissue	

Checkmarks indicate that information on the COC reconciled with the sample label.

Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	☒	☐	☐
Sample Custody Seals Intact?	☐	☐	☒
Adequate Sample Volume?	☒	☐	☐
Container Type Appropriate for Analysis(es)	☒	☐	☐

Comments:

① Sample bag ID not legible.

② No time listed on Coc or sample bags used 00:00

Preservation Documented: Na₂S₂O₃ Trizma NH₄CH₃CO₂ None Other

Verified by/Date: LA 09/24/24
XAO 09/24/24



October 23, 2024

**Enthalpy Analytical - El Dorado Hills
Work Order No. 2409186**

Mr Emerson Christie
Washington State Department of Health
111 Israel Road S.E.
Tumwater, WA 98501

Dear Mr Christie,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on September 24, 2024 under your Project Name 'SHELLFISH PFAS'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at emilyuebelhoer@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

A handwritten signature in black ink that reads 'Emily Uebelhoer'.

Emily Uebelhoer
Project Manager

Enthalpy Analytical -EDH certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Enthalpy Analytical -EDH.

Enthalpy Analytical - EDH Work Order No. 2409186

Case Narrative

Sample Condition on Receipt:

Eleven tissue samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements. No collection time was noted on the Chain-of-Custody (CoC) for all samples; the collection time has been reported as 00:00.

Analytical Notes:

EPA Method 1633 (Tissue)

The samples were extracted and analyzed for a selected list of PFAS using EPA Method 1633. The results for PFHxS, PFOA, PFOSA, PFOS, PFNA, MeFOSAA, EtFOSAA, MeFOSA, MeFOSE, EtFOSA, EtFOSE include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted outside hold time. Samples were analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank, Ongoing Precision and Recovery (OPR) sample, and Low-Level OPR sample were extracted and analyzed with each preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

As requested, an MS/MSD was performed on sample "PCK-BC-02". The MS/MSD recoveries and RPDs were within acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are flagged with an "Q" qualifier. The responses of the internal standards with low recoveries were greater than 10:1 signal-to-noise, which is the limit generally considered acceptable for accurate quantitation by isotope dilution analysis.

TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	42
Certifications.....	43
Sample Receipt.....	44

Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2409186-01	PCK-BC-02	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409186-02	PCK-BC-03	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409186-03	PCG-BC-01	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409186-04	PCG-BC-02	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409186-05	PCG-BC-03	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409186-06	PCK-CO-01	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409186-07	PCK-CO-02	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409186-08	PCK-CO-03	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409186-09	PCG-CO-02	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409186-10	PCG-CO-01	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag
2409186-11	PCG-CO-03	06-Jun-24 00:00	24-Sep-24 07:53	Plastic Bag

ANALYTICAL RESULTS

Sample ID: Method Blank
EPA Method 1633

Client Data					Laboratory Data				
Name:	Washington State Department of Health	Matrix:	Tissue		Lab Sample:	B24I178-BLK1	Column:	BEH C18	
Project:	SHELLFISH PFAS								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.625	2.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFMPA	ND	0.459	1.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
3:3 FTCA	ND	1.28	2.50		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFPeA	ND	0.359	1.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFMBA	ND	0.402	1.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFBS	ND	0.218	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
4:2 FTS	ND	0.994	2.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFHxA	ND	0.179	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFEESA	ND	0.271	1.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFPeS	ND	0.240	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
HFPO-DA	ND	0.923	2.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
NFDHA	ND	0.371	1.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
5:3 FTCA	ND	3.97	15.0		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFHpA	ND	0.168	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
ADONA	ND	0.572	2.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFHxS	ND	0.269	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
6:2 FTS	ND	0.777	2.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFOA	ND	0.191	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFHpS	ND	0.158	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
7:3 FTCA	ND	4.87	15.0		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFNA	ND	0.183	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFOSA	ND	0.199	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFOS	ND	0.370	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
9Cl-PF3ONS	ND	0.658	2.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFDA	ND	0.173	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
8:2 FTS	ND	0.978	2.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFNS	ND	0.220	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
MeFOSAA	ND	0.326	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
EtFOSAA	ND	0.280	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFOA	ND	0.135	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFDS	ND	0.262	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
11Cl-PF3OUdS	ND	0.890	2.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFDoA	ND	0.144	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
MeFOSA	ND	0.256	1.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFTTrDA	ND	0.178	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFDoS	ND	0.207	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
PFTeDA	ND	0.162	0.500		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
EtFOSA	ND	0.311	1.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1

Sample ID: Method Blank					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24I178-BLK1		Column:	BEH C18
Project:	SHELLFISH PFAS								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSE	ND	1.70	5.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
EtFOSE	ND	2.06	5.00		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	95.1	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C5-PFPeA	IS	108	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C2-4:2 FTS	IS	117	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C3-PFBS	IS	88.6	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C5-PFHxA	IS	107	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C4-PFHpA	IS	112	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C3-HFPO-DA	IS	108	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C2-6:2 FTS	IS	113	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C8-PFOA	IS	80.9	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C3-PFHxS	IS	105	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C9-PFNA	IS	91.1	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C2-8:2 FTS	IS	109	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C6-PFDA	IS	113	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
d3-MeFOSAA	IS	113	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C8-PFOS	IS	110	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
d5-EtFOSAA	IS	107	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C7-PFUnA	IS	125	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C8-PFOSA	IS	94.3	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C2-PFDoA	IS	117	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
13C2-PFTeDA	IS	121	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
d7-MeFOSE	IS	85.2	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
d3-MeFOSA	IS	49.9	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
d9-EtFOSE	IS	18.1	20 - 150	Q	B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1
d5-EtFOSA	IS	20.0	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:29	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24I178-BS1	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	6.08	5.00	122	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFMPA	2.95	2.50	118	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
3:3 FTCA	5.81	6.25	93.0	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFPeA	2.58	2.50	103	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFMBA	2.69	2.50	108	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFBS	1.20	1.11	108	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
4:2 FTS	5.27	4.69	112	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFHxA	1.41	1.25	113	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFEESA	2.38	2.22	107	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFPeS	1.15	1.18	97.3	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
HFPO-DA	5.85	5.29	111	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
NFDHA	2.70	2.50	108	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
5:3 FTCA	31.9	31.2	102	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFHpA	1.36	1.25	109	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
ADONA	5.68	5.00	114	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFHxS	1.25	1.14	109	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
6:2 FTS	5.13	4.75	108	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFOA	1.49	1.25	119	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFHpS	1.06	1.19	89.0	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
7:3 FTCA	32.6	31.2	104	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFNA	1.66	1.25	133	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFOSA	1.35	1.25	108	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFOS	1.15	1.16	98.8	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
9Cl-PF3ONS	6.45	4.95	130	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFDA	1.36	1.25	109	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
8:2 FTS	5.11	4.80	106	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFNS	1.23	1.20	102	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
MeFOSAA	1.40	1.25	112	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
EtFOSAA	1.26	1.25	100	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFUnA	1.42	1.25	113	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFDS	1.20	1.21	99.3	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
11Cl-PF3OUdS	5.91	5.00	118	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFDaA	1.46	1.25	117	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
MeFOSA	1.42	1.25	114	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24I178-BS1	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTTrDA	1.48	1.25	118	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFDoS	1.22	1.21	100	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
PFTeDA	1.55	1.25	124	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
EtFOSA	1.38	1.25	111	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
MeFOSE	14.9	12.5	119	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
EtFOSE	10.6	12.5	84.6	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS		95.5	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C5-PFPeA	IS		113	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C2-4:2 FTS	IS		114	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C3-PFBS	IS		96.0	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C5-PFHxA	IS		109	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C4-PFHpA	IS		110	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C3-HFPO-DA	IS		113	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C2-6:2 FTS	IS		121	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C8-PFOA	IS		82.7	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C3-PFHxS	IS		106	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C9-PFNA	IS		94.6	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C2-8:2 FTS	IS		119	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C6-PFDA	IS		115	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
d3-MeFOSAA	IS		114	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C8-PFOS	IS		107	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
d5-EtFOSAA	IS		106	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C7-PFUnA	IS		114	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C8-PFOSA	IS		92.4	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C2-PFDoA	IS		112	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
13C2-PFTeDA	IS		120	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
d7-MeFOSE	IS		85.1	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
d3-MeFOSA	IS		50.5	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
d9-EtFOSE	IS		18.0	20 - 150	Q	B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1
d5-EtFOSA	IS		23.2	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:42	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24I178-BS2	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	4.85	4.00	121	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFMPA	2.24	2.00	112	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
3:3 FTCA	4.86	5.00	97.2	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFPeA	2.14	2.00	107	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFMBA	2.30	2.00	115	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFBS	0.948	0.887	107	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
4:2 FTS	3.89	3.75	104	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFHxA	1.12	1.00	112	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFEESA	2.05	1.78	115	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFPeS	0.849	0.941	90.2	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
HFPO-DA	4.05	4.00	101	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
NFDHA	2.07	2.00	104	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
5:3 FTCA	23.5	25.0	94.1	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFHpA	1.13	1.00	113	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
ADONA	4.04	3.78	107	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFHxS	0.887	0.914	97.0	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
6:2 FTS	4.16	3.80	110	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFOA	1.21	1.00	121	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFHpS	0.818	0.953	85.8	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
7:3 FTCA	27.4	25.0	110	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFNA	1.31	1.00	131	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFOSA	1.05	1.00	105	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFOS	0.926	0.928	99.8	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
9Cl-PF3ONS	4.80	3.74	128	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFDA	1.20	1.00	120	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
8:2 FTS	4.53	3.84	118	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFNS	1.06	0.962	110	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
MeFOSAA	1.11	1.00	111	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
EtFOSAA	1.04	1.00	104	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFUnA	1.15	1.00	115	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFDS	0.939	0.965	97.3	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
11Cl-PF3OUdS	4.44	3.78	117	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFDaA	1.01	1.00	101	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
MeFOSA	1.09	1.00	109	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24I178-BS2	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTTrDA	1.10	1.00	110	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFDoS	0.947	0.970	97.6	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
PFTeDA	1.09	1.00	109	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
EtFOSA	1.07	1.00	107	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
MeFOSE	11.4	10.0	114	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
EtFOSE	8.38	10.0	83.8	40 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS		94.9	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C5-PFPeA	IS		92.1	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C2-4:2 FTS	IS		119	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C3-PFBS	IS		88.3	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C5-PFHxA	IS		93.3	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C4-PFHpA	IS		96.0	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C3-HFPO-DA	IS		98.0	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C2-6:2 FTS	IS		112	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C8-PFOA	IS		82.0	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C3-PFHxS	IS		105	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C9-PFNA	IS		90.5	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C2-8:2 FTS	IS		111	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C6-PFDA	IS		102	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
d3-MeFOSAA	IS		108	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C8-PFOS	IS		105	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
d5-EtFOSAA	IS		106	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C7-PFUnA	IS		102	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C8-PFOSA	IS		90.3	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C2-PFDoA	IS		110	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
13C2-PFTeDA	IS		119	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
d7-MeFOSE	IS		80.8	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
d3-MeFOSA	IS		47.6	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
d9-EtFOSE	IS		18.0	20 - 150	Q	B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1
d5-EtFOSA	IS		20.5	20 - 150		B24I178	02-Oct-24	2.00 g	04-Oct-24 16:56	1

Sample ID: Method Blank					EPA Method 1633				
Client Data Name: Washington State Department of Health Project: SHELLFISH PFAS Matrix: Tissue					Laboratory Data Lab Sample: B24J065-BLK1 Column: BEH C18				
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.625	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFMPA	ND	0.459	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
3:3 FTCA	ND	1.28	2.50		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFPeA	ND	0.359	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFMBA	ND	0.402	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFBS	ND	0.218	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
4:2 FTS	ND	0.994	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFHxA	ND	0.179	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFEESA	ND	0.271	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFPeS	ND	0.240	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
HFPO-DA	ND	0.923	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
NFDHA	ND	0.371	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
5:3 FTCA	ND	3.97	15.0		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFHpA	ND	0.168	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
ADONA	ND	0.572	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFHxS	ND	0.269	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
6:2 FTS	ND	0.777	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFOA	ND	0.191	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFHpS	ND	0.158	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
7:3 FTCA	ND	4.87	15.0		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFNA	ND	0.183	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFOSA	ND	0.199	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFOS	ND	0.370	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
9Cl-PF3ONS	ND	0.658	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFDA	ND	0.173	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
8:2 FTS	ND	0.978	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFNS	ND	0.220	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
MeFOSAA	ND	0.326	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
EtFOSAA	ND	0.280	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFUnA	ND	0.135	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFDS	ND	0.262	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
11Cl-PF3OUdS	ND	0.890	2.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFDoA	ND	0.144	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
MeFOSA	ND	0.256	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFTTrDA	ND	0.178	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFDoS	ND	0.207	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
PFTeDA	ND	0.162	0.500		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
EtFOSA	ND	0.311	1.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1

Sample ID: Method Blank					EPA Method 1633				
Client Data				Laboratory Data					
Name: Washington State Department of Health		Matrix: Tissue		Lab Sample: B24J065-BLK1		Column: BEH C18			
Project: SHELLFISH PFAS									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSE	ND	1.70	5.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
EtFOSE	ND	2.06	5.00		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	114	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C5-PFPeA	IS	102	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C2-4:2 FTS	IS	104	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C3-PFBS	IS	99.3	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C5-PFHxA	IS	101	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C4-PFHpA	IS	102	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C3-HFPO-DA	IS	99.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C2-6:2 FTS	IS	88.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C8-PFOA	IS	95.5	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C3-PFHxS	IS	108	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C9-PFNA	IS	96.5	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C2-8:2 FTS	IS	89.3	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C6-PFDA	IS	98.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d3-MeFOSAA	IS	109	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C8-PFOS	IS	114	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d5-EtFOSAA	IS	115	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C7-PFUnA	IS	102	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C8-PFOSA	IS	101	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C2-PFDoA	IS	82.8	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
13C2-PFTeDA	IS	95.7	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d7-MeFOSE	IS	81.7	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d3-MeFOSA	IS	58.8	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d9-EtFOSE	IS	22.9	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1
d5-EtFOSA	IS	92.4	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:15	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24J065-BS1	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	5.06	5.01	101	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFMPA	2.67	2.51	107	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
3:3 FTCA	5.67	6.24	90.8	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFPeA	2.57	2.51	102	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFMBA	2.61	2.51	104	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFBS	1.15	1.11	104	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
4:2 FTS	4.75	4.70	101	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFHxA	1.31	1.25	105	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFEESA	2.23	2.23	100	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFPeS	1.02	1.18	86.0	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
HFPO-DA	5.07	5.28	95.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
NFDHA	2.31	2.51	91.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
5:3 FTCA	27.1	31.2	86.8	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFHpA	1.25	1.25	100	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
ADONA	4.54	4.99	90.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFHxS	1.02	1.15	88.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
6:2 FTS	4.70	4.76	98.8	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFOA	1.32	1.25	106	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFHpS	1.06	1.19	89.2	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
7:3 FTCA	25.2	31.2	80.8	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFNA	1.48	1.25	118	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFOSA	1.27	1.25	101	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFOS	1.02	1.16	88.0	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
9Cl-PF3ONS	5.23	4.94	106	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFDA	1.24	1.25	99.0	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
8:2 FTS	4.56	4.81	94.7	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFNS	0.982	1.21	81.2	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
MeFOSAA	1.14	1.25	90.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
EtFOSAA	1.07	1.25	85.2	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFUnA	1.14	1.25	91.0	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFDS	1.05	1.21	86.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
11Cl-PF3OUdS	5.12	4.99	103	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFDaA	1.14	1.25	90.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
MeFOSA	1.23	1.25	98.7	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24J065-BS1	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTTrDA	1.12	1.25	89.4	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFDoS	1.04	1.22	85.4	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
PFTeDA	1.11	1.25	88.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
EtFOSA	1.14	1.25	91.1	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
MeFOSE	13.1	12.5	105	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
EtFOSE	12.9	12.5	103	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS		114	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C5-PFPeA	IS		104	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C2-4:2 FTS	IS		108	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C3-PFBS	IS		109	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C5-PFHxA	IS		108	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C4-PFHpA	IS		107	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C3-HFPO-DA	IS		109	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C2-6:2 FTS	IS		95.0	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C8-PFOA	IS		93.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C3-PFHxS	IS		116	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C9-PFNA	IS		105	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C2-8:2 FTS	IS		94.9	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C6-PFDA	IS		113	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d3-MeFOSAA	IS		99.0	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C8-PFOS	IS		115	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d5-EtFOSAA	IS		111	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C7-PFUnA	IS		113	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C8-PFOSA	IS		97.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C2-PFDoA	IS		106	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
13C2-PFTeDA	IS		126	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d7-MeFOSE	IS		81.0	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d3-MeFOSA	IS		54.7	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d9-EtFOSE	IS		15.7	20 - 150	Q	B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1
d5-EtFOSA	IS		91.4	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:28	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24J065-BS2	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	3.98	4.00	99.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFMPA	2.08	2.00	104	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
3:3 FTCA	4.68	5.00	93.6	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFPeA	2.14	2.00	107	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFMBA	2.14	2.00	107	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFBS	0.801	0.887	90.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
4:2 FTS	3.61	3.75	96.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFHxA	0.953	1.00	95.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFEESA	1.87	1.78	105	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFPeS	0.850	0.941	90.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
HFPO-DA	3.78	4.00	94.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
NFDHA	2.04	2.00	102	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
5:3 FTCA	24.3	25.0	97.4	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFHpA	0.987	1.00	98.7	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
ADONA	3.44	3.78	90.9	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFHxS	0.854	0.914	93.4	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
6:2 FTS	3.78	3.80	99.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFOA	1.17	1.00	117	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFHpS	0.937	0.953	98.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
7:3 FTCA	21.5	25.0	85.8	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFNA	1.21	1.00	121	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFOSA	1.00	1.00	100	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFOS	0.903	0.928	97.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
9Cl-PF3ONS	3.22	3.74	86.1	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFDA	1.17	1.00	117	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
8:2 FTS	4.17	3.84	108	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFNS	0.813	0.962	84.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
MeFOSAA	0.937	1.00	93.7	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
EtFOSAA	0.906	1.00	90.6	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFUnA	1.02	1.00	102	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFDS	0.854	0.965	88.5	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
11Cl-PF3OUdS	3.26	3.78	86.1	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFDaA	0.913	1.00	91.3	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
MeFOSA	1.05	1.00	105	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1

Sample ID: OPR
EPA Method 1633

Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	B24J065-BS2	Column:	BEH C18		
Project:	SHELLFISH PFAS									
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTTrDA	1.02	1.00	102	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFDoS	0.690	0.970	71.1	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
PFTeDA	0.951	1.00	95.1	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
EtFOSA	0.940	1.00	94.0	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
MeFOSE	10.8	10.0	108	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
EtFOSE	11.8	10.0	118	40 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS		111	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C5-PFPeA	IS		95.0	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C2-4:2 FTS	IS		107	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C3-PFBS	IS		100	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C5-PFHxA	IS		97.5	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C4-PFHpA	IS		99.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C3-HFPO-DA	IS		100	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C2-6:2 FTS	IS		91.3	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C8-PFOA	IS		88.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C3-PFHxS	IS		111	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C9-PFNA	IS		98.1	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C2-8:2 FTS	IS		76.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C6-PFDA	IS		106	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d3-MeFOSAA	IS		105	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C8-PFOS	IS		112	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d5-EtFOSAA	IS		115	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C7-PFUnA	IS		97.6	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C8-PFOSA	IS		99.7	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C2-PFDoA	IS		83.1	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
13C2-PFTeDA	IS		77.4	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d7-MeFOSE	IS		76.3	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d3-MeFOSA	IS		78.8	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d9-EtFOSE	IS		61.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1
d5-EtFOSA	IS		89.2	20 - 150		B24J065	10-Oct-24	2.00 g	15-Oct-24 13:42	1

Sample ID: PCK-BC-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-01	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.619	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFMPA	ND	0.454	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
3:3 FTCA	ND	1.27	2.48		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFPeA	ND	0.355	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFMBA	ND	0.398	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFBS	ND	0.216	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
4:2 FTS	ND	0.984	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFHxA	ND	0.177	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFEESA	ND	0.268	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFPeS	ND	0.238	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
HFPO-DA	ND	0.914	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
NFDHA	ND	0.367	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
5:3 FTCA	ND	3.93	14.9		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFHpA	ND	0.166	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
ADONA	ND	0.566	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFHxS	ND	0.266	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
6:2 FTS	ND	0.769	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFOA	ND	0.189	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFHpS	ND	0.156	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
7:3 FTCA	ND	4.82	14.9		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFNA	ND	0.181	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFOSA	ND	0.197	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFOS	ND	0.366	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
9Cl-PF3ONS	ND	0.651	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFDA	ND	0.171	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
8:2 FTS	ND	0.968	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFNS	ND	0.218	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
MeFOSAA	ND	0.323	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
EtFOSAA	ND	0.277	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFUnA	ND	0.134	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFDS	ND	0.259	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
11Cl-PF3OUdS	ND	0.881	1.98		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFDoA	ND	0.143	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
MeFOSA	ND	0.253	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFTTrDA	ND	0.176	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFDoS	ND	0.205	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1
PFTeDA	ND	0.160	0.495		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1

Sample ID: PCK-BC-02					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-01		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.308	0.990		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
MeFOSE	ND	1.68	4.95		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
EtFOSE	ND	2.04	4.95		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	106	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C5-PFPeA	IS	89.5	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C2-4:2 FTS	IS	186	20 - 150	Q	B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C3-PFBS	IS	99.7	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C5-PFHxA	IS	104	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C4-PFHpA	IS	97.6	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C3-HFPO-DA	IS	94.6	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C2-6:2 FTS	IS	139	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C8-PFOA	IS	91.0	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C3-PFHxS	IS	108	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C9-PFNA	IS	100	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C2-8:2 FTS	IS	186	20 - 150	Q	B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C6-PFDA	IS	106	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
d3-MeFOSAA	IS	105	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C8-PFOS	IS	109	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
d5-EtFOSAA	IS	122	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C7-PFUnA	IS	81.7	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C8-PFOSA	IS	103	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C2-PFDoA	IS	70.0	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
13C2-PFTeDA	IS	68.7	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
d7-MeFOSE	IS	53.6	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
d3-MeFOSA	IS	47.0	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
d9-EtFOSE	IS	46.5	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	
d5-EtFOSA	IS	46.9	20 - 150		B24J065	10-Oct-24	2.02 g	15-Oct-24 15:57	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCK-BC-02
EPA Method 1633

Name:	Washington State Department of Health	Lab Sample:	B24J065-MS1/B24J065-MSD1	Source Lab Sample:	2409186-01
Project:	SHELLFISH PFAS	QC Batch:	B24J065	Date Extracted:	10-Oct-24
Matrix:	Tissue	Samp Size:	2.00/2.01 g	Column:	BEH C18

Analyte	Sample (ng/g)	MS (ng/g)	MS Spike	MS % Rec	MS Quals	MSD (ng/g)	MSD Spike	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBA	ND	5.22	5.01	104		4.95	4.99	99.2	4.72		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFMPA	ND	2.38	2.51	94.9		2.55	2.50	102	7.21		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
3:3 FTCA	ND	5.34	6.24	85.5		5.91	6.21	95.1	10.6		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFPeA	ND	2.66	2.51	106		2.49	2.50	99.8	6.03		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFMBA	ND	2.79	2.51	111		2.84	2.50	114	2.67		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFBS	ND	1.16	1.11	104		1.00	1.10	91.3	13		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
4:2 FTS	ND	4.37	4.70	93.0		4.77	4.68	102	9.23		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFHxA	ND	1.15	1.25	92.3		1.16	1.24	93.1	0.863		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFEESA	ND	2.19	2.23	98.3		2.13	2.22	96.1	2.26		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFPeS	ND	1.11	1.18	94.2		1.03	1.17	87.8	7.03		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
HFPO-DA	ND	4.93	5.28	93.4		5.16	5.25	98.2	5.01		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
NFDHA	ND	2.53	2.51	101		2.40	2.50	95.9	5.18		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
5:3 FTCA	ND	28.1	31.2	90.0		29.3	31.0	94.4	4.77		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFHpA	ND	1.23	1.25	98.4		1.27	1.24	102	3.59		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
ADONA	ND	4.48	4.99	89.8		4.62	4.97	93.0	3.5		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFHxS	ND	1.09	1.15	95.0		1.06	1.14	92.8	2.34		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
6:2 FTS	ND	4.73	4.76	99.3		4.57	4.74	96.4	2.96		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFOA	ND	1.36	1.25	109		1.37	1.24	111	1.82		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFHpS	ND	1.13	1.19	95.2		1.09	1.18	92.4	2.99		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
7:3 FTCA	ND	27.0	31.2	86.5		28.6	31.0	92.4	6.6		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFNA	ND	1.51	1.25	121		1.45	1.24	117	3.36		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFOSA	ND	1.28	1.25	102		1.24	1.24	99.9	2.08		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFOS	ND	0.972	1.16	83.8		1.03	1.15	89.2	6.24		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
9Cl-PF3ONS	ND	4.86	4.94	98.3		4.61	4.92	93.7	4.79		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFDA	ND	1.18	1.25	94.2		1.26	1.24	102	7.95		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
8:2 FTS	ND	4.77	4.81	99.1		4.86	4.79	102	2.88		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFNS	ND	0.982	1.21	81.2		0.841	1.20	70.1	14.7		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
MeFOSAA	ND	1.17	1.25	93.4		1.26	1.24	101	7.82		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
EtFOSAA	ND	1.05	1.25	83.8		1.04	1.24	83.9	0.119		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFUnA	ND	1.25	1.25	99.9		1.34	1.24	108	7.79		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFDS	ND	0.933	1.21	77.1		0.857	1.20	71.4	7.68		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
11Cl-PF3OUdS	ND	4.28	4.99	85.8		4.19	4.97	84.4	1.65		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFDaA	ND	1.22	1.25	97.6		1.19	1.24	95.6	2.07		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1

Sample ID: PCK-BC-02
EPA Method 1633

Name:	Washington State Department of Health	Lab Sample:	B24J065-MS1/B24J065-MSD1	Source Lab Sample:	2409186-01
Project:	SHELLFISH PFAS	QC Batch:	B24J065	Date Extracted:	10-Oct-24
Matrix:	Tissue	Samp Size:	2.00/2.01 g	Column:	BEH C18

Analyte	Sample (ng/g)	MS (ng/g)	MS Spike	MS % Rec	MS Quals	MSD (ng/g)	MSD Spike	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
MeFOSA	ND	1.30	1.25	104		1.20	1.24	96.9	7.07		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFTTrDA	ND	1.26	1.25	101		1.26	1.24	101	0		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFDoS	ND	0.756	1.22	62.0		0.606	1.21	50.1	21.2		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
PFTeDA	ND	1.17	1.25	93.8		1.16	1.24	93.6	0.213		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
EtFOSA	ND	1.26	1.25	101		1.12	1.24	90.6	10.9		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
MeFOSE	ND	14.2	12.5	114		14.2	12.4	114	0		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1
EtFOSE	ND	12.7	12.5	101		12.3	12.4	99.5	1.5		40-150	30	15-Oct-24 13:55	1	15-Oct-24 14:09	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C4-PFBA	IS	107		112		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C5-PFPeA	IS	95.7		92.2		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C2-4:2 FTS	IS	161	Q	161	Q	20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C3-PFBS	IS	101		103		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C5-PFHxA	IS	103		107		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C4-PFHpA	IS	101		97.5		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C3-HFPO-DA	IS	102		101		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C2-6:2 FTS	IS	127		137		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C8-PFOA	IS	94.9		97.5		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C3-PFHxS	IS	108		109		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C9-PFNA	IS	104		96.6		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C2-8:2 FTS	IS	190	Q	182	Q	20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C6-PFDA	IS	116		108		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
d3-MeFOSAA	IS	103		98.5		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C8-PFOS	IS	110		113		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
d5-EtFOSAA	IS	131		127		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C7-PFUnA	IS	91.4		81.7		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C8-PFOSA	IS	93.0		101		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C2-PFDoA	IS	80.1		73.8		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
13C2-PFTeDA	IS	76.8		67.9		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
d7-MeFOSE	IS	51.5		48.0		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
d3-MeFOSA	IS	46.8		45.7		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
d9-EtFOSE	IS	46.6		43.2		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1
d5-EtFOSA	IS	47.5		49.9		20 - 150	15-Oct-24 13:55	1	15-Oct-24 14:09	1

Sample ID: PCK-BC-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-02	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFMPA	ND	0.452	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
3:3 FTCA	ND	1.26	2.46		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFPeA	ND	0.354	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFMBA	ND	0.396	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFBS	ND	0.215	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
4:2 FTS	ND	0.979	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFHxA	ND	0.176	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFEESA	ND	0.267	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFPeS	ND	0.236	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
HFPO-DA	ND	0.909	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
NFDHA	ND	0.366	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
5:3 FTCA	ND	3.91	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFHpA	ND	0.166	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
ADONA	ND	0.564	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFHxS	ND	0.265	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
6:2 FTS	ND	0.766	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFOA	ND	0.188	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFHpS	ND	0.156	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
7:3 FTCA	ND	4.80	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFNA	ND	0.180	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFOSA	ND	0.196	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFOS	ND	0.365	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
9Cl-PF3ONS	ND	0.648	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFDA	ND	0.170	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
8:2 FTS	ND	0.964	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFNS	ND	0.217	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
MeFOSAA	ND	0.321	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
EtFOSAA	ND	0.276	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFUnA	ND	0.133	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFDS	ND	0.258	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFDoA	ND	0.142	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
MeFOSA	ND	0.252	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFTTrDA	ND	0.175	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFDoS	ND	0.204	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1
PFTeDA	ND	0.160	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1

Sample ID: PCK-BC-03					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-02		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
MeFOSE	ND	1.67	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
EtFOSE	ND	2.03	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	50.7	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C5-PFPeA	IS	86.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C2-4:2 FTS	IS	169	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C3-PFBS	IS	95.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C5-PFHxA	IS	96.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C4-PFHpA	IS	95.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C3-HFPO-DA	IS	94.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C2-6:2 FTS	IS	150	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C8-PFOA	IS	81.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C3-PFHxS	IS	110	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C9-PFNA	IS	95.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C2-8:2 FTS	IS	187	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C6-PFDA	IS	106	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
d3-MeFOSAA	IS	88.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C8-PFOS	IS	93.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
d5-EtFOSAA	IS	104	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C7-PFUnA	IS	92.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C8-PFOSA	IS	79.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C2-PFDoA	IS	85.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
13C2-PFTeDA	IS	64.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
d7-MeFOSE	IS	42.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
d3-MeFOSA	IS	35.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
d9-EtFOSE	IS	36.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	
d5-EtFOSA	IS	35.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:03	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCG-BC-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-03	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFMPA	ND	0.452	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
3:3 FTCA	ND	1.26	2.46		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFPeA	ND	0.354	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFMBA	ND	0.396	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFBS	ND	0.215	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
4:2 FTS	ND	0.979	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFHxA	ND	0.176	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFEESA	ND	0.267	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFPeS	ND	0.236	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
HFPO-DA	ND	0.909	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
NFDHA	ND	0.366	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
5:3 FTCA	ND	3.91	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFHpA	ND	0.166	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
ADONA	ND	0.564	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFHxS	ND	0.265	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
6:2 FTS	ND	0.766	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFOA	ND	0.188	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFHpS	ND	0.156	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
7:3 FTCA	ND	4.80	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFNA	ND	0.180	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFOSA	ND	0.196	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFOS	ND	0.365	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
9Cl-PF3ONS	ND	0.648	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFDA	ND	0.170	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
8:2 FTS	ND	0.964	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFNS	ND	0.217	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
MeFOSAA	ND	0.321	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
EtFOSAA	ND	0.276	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFUnA	ND	0.133	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFDS	ND	0.258	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFDoA	ND	0.142	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
MeFOSA	ND	0.252	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFTTrDA	ND	0.175	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFDoS	ND	0.204	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
PFTeDA	ND	0.160	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1

Sample ID: PCG-BC-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-03		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
MeFOSE	ND	1.67	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
EtFOSE	ND	2.03	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	63.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C5-PFPeA	IS	88.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C2-4:2 FTS	IS	179	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C3-PFBS	IS	97.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C5-PFHxA	IS	100	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C4-PFHpA	IS	95.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C3-HFPO-DA	IS	96.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C2-6:2 FTS	IS	148	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C8-PFOA	IS	83.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C3-PFHxS	IS	116	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C9-PFNA	IS	94.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C2-8:2 FTS	IS	201	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C6-PFDA	IS	113	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
d3-MeFOSAA	IS	101	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C8-PFOS	IS	97.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
d5-EtFOSAA	IS	113	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C7-PFUnA	IS	101	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C8-PFOSA	IS	93.7	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C2-PFDoA	IS	101	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
13C2-PFTeDA	IS	83.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
d7-MeFOSE	IS	38.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
d3-MeFOSA	IS	31.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
d9-EtFOSE	IS	41.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1
d5-EtFOSA	IS	36.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:17	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCG-BC-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-04	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFMPA	ND	0.452	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
3:3 FTCA	ND	1.26	2.46		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFPeA	ND	0.354	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFMBA	ND	0.396	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFBS	ND	0.215	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
4:2 FTS	ND	0.979	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFHxA	ND	0.176	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFEESA	ND	0.267	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFPeS	ND	0.236	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
HFPO-DA	ND	0.909	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
NFDHA	ND	0.366	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
5:3 FTCA	ND	3.91	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFHpA	ND	0.166	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
ADONA	ND	0.564	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFHxS	ND	0.265	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
6:2 FTS	ND	0.766	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFOA	ND	0.188	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFHpS	ND	0.156	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
7:3 FTCA	ND	4.80	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFNA	ND	0.180	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFOSA	ND	0.196	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFOS	ND	0.365	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
9Cl-PF3ONS	ND	0.648	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFDA	ND	0.170	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
8:2 FTS	ND	0.964	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFNS	ND	0.217	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
MeFOSAA	ND	0.321	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
EtFOSAA	ND	0.276	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFUnA	ND	0.133	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFDS	ND	0.258	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFDoA	ND	0.142	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
MeFOSA	ND	0.252	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFTTrDA	ND	0.175	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFDoS	ND	0.204	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1
PFTeDA	ND	0.160	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1

Sample ID: PCG-BC-02					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-04		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
MeFOSE	ND	1.67	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
EtFOSE	ND	2.03	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	50.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C5-PFPeA	IS	83.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C2-4:2 FTS	IS	168	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C3-PFBS	IS	94.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C5-PFHxA	IS	94.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C4-PFHpA	IS	90.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C3-HFPO-DA	IS	92.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C2-6:2 FTS	IS	150	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C8-PFOA	IS	75.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C3-PFHxS	IS	105	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C9-PFNA	IS	88.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C2-8:2 FTS	IS	192	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C6-PFDA	IS	115	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
d3-MeFOSAA	IS	101	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C8-PFOS	IS	89.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
d5-EtFOSAA	IS	108	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C7-PFUnA	IS	98.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C8-PFOSA	IS	88.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C2-PFDoA	IS	93.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
13C2-PFTeDA	IS	82.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
d7-MeFOSE	IS	39.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
d3-MeFOSA	IS	34.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
d9-EtFOSE	IS	41.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	
d5-EtFOSA	IS	39.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:31	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCG-BC-03

EPA Method 1633

Client Data				Laboratory Data			
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-05	Column:	BEH C18
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53		
Location:	BUTTER						

Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFMPA	ND	0.452	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
3:3 FTCA	ND	1.26	2.46		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFPeA	ND	0.354	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFMBA	ND	0.396	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFBS	ND	0.215	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
4:2 FTS	ND	0.979	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFHxA	ND	0.176	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFEESA	ND	0.267	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFPeS	ND	0.236	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
HFPO-DA	ND	0.909	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
NFDHA	ND	0.366	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
5:3 FTCA	ND	3.91	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFHpA	ND	0.166	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
ADONA	ND	0.564	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFHxS	ND	0.265	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
6:2 FTS	ND	0.766	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFOA	ND	0.188	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFHpS	ND	0.156	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
7:3 FTCA	ND	4.80	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFNA	ND	0.180	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFOSA	ND	0.196	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFOS	ND	0.365	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
9Cl-PF3ONS	ND	0.648	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFDA	ND	0.170	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
8:2 FTS	ND	0.964	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFNS	ND	0.217	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
MeFOSAA	ND	0.321	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
EtFOSAA	ND	0.276	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFUnA	ND	0.133	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFDS	ND	0.258	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFDoA	ND	0.142	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
MeFOSA	ND	0.252	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFTTrDA	ND	0.175	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFDoS	ND	0.204	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1
PFTeDA	ND	0.160	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1

Sample ID: PCG-BC-03					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-05		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	BUTTER									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
MeFOSE	ND	1.67	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
EtFOSE	ND	2.03	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	63.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C5-PFPeA	IS	87.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C2-4:2 FTS	IS	183	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C3-PFBS	IS	98.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C5-PFHxA	IS	103	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C4-PFHpA	IS	98.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C3-HFPO-DA	IS	99.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C2-6:2 FTS	IS	160	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C8-PFOA	IS	90.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C3-PFHxS	IS	112	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C9-PFNA	IS	94.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C2-8:2 FTS	IS	215	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C6-PFDA	IS	110	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
d3-MeFOSAA	IS	104	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C8-PFOS	IS	99.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
d5-EtFOSAA	IS	114	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C7-PFUnA	IS	102	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C8-PFOSA	IS	103	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C2-PFDoA	IS	101	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
13C2-PFTeDA	IS	90.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
d7-MeFOSE	IS	47.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
d3-MeFOSA	IS	37.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
d9-EtFOSE	IS	50.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	
d5-EtFOSA	IS	41.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:44	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCK-CO-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-06	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	COCKLE								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFMPA	ND	0.452	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
3:3 FTCA	ND	1.26	2.46		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFPeA	ND	0.354	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFMBA	ND	0.396	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFBS	ND	0.215	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
4:2 FTS	ND	0.979	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFHxA	ND	0.176	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFEESA	ND	0.267	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFPeS	ND	0.236	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
HFPO-DA	ND	0.909	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
NFDHA	ND	0.366	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
5:3 FTCA	ND	3.91	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFHpA	ND	0.166	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
ADONA	ND	0.564	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFHxS	ND	0.265	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
6:2 FTS	ND	0.766	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFOA	ND	0.188	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFHpS	ND	0.156	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
7:3 FTCA	ND	4.80	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFNA	ND	0.180	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFOSA	ND	0.196	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFOS	ND	0.365	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
9Cl-PF3ONS	ND	0.648	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFDA	ND	0.170	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
8:2 FTS	ND	0.964	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFNS	ND	0.217	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
MeFOSAA	ND	0.321	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
EtFOSAA	ND	0.276	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFUnA	ND	0.133	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFDS	ND	0.258	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFDoA	ND	0.142	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
MeFOSA	ND	0.252	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFTTrDA	ND	0.175	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFDoS	ND	0.204	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
PFTeDA	ND	0.160	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1

Sample ID: PCK-CO-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-06		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	COCKLE								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
MeFOSE	ND	1.67	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
EtFOSE	ND	2.03	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	92.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C5-PFPeA	IS	88.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C2-4:2 FTS	IS	159	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C3-PFBS	IS	94.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C5-PFHxA	IS	98.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C4-PFHpA	IS	93.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C3-HFPO-DA	IS	96.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C2-6:2 FTS	IS	139	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C8-PFOA	IS	77.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C3-PFHxS	IS	106	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C9-PFNA	IS	87.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C2-8:2 FTS	IS	143	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C6-PFDA	IS	114	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
d3-MeFOSAA	IS	87.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C8-PFOS	IS	90.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
d5-EtFOSAA	IS	98.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C7-PFUnA	IS	92.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C8-PFOSA	IS	83.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C2-PFDoA	IS	78.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
13C2-PFTeDA	IS	40.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
d7-MeFOSE	IS	42.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
d3-MeFOSA	IS	37.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
d9-EtFOSE	IS	32.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1
d5-EtFOSA	IS	38.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 18:58	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCK-CO-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-07	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	COCKLE								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFMPA	ND	0.452	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
3:3 FTCA	ND	1.26	2.46		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFPeA	ND	0.354	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFMBA	ND	0.396	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFBS	ND	0.215	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
4:2 FTS	ND	0.979	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFHxA	ND	0.176	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFEESA	ND	0.267	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFPeS	ND	0.236	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
HFPO-DA	ND	0.909	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
NFDHA	ND	0.366	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
5:3 FTCA	ND	3.91	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFHpA	ND	0.166	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
ADONA	ND	0.564	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFHxS	ND	0.265	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
6:2 FTS	ND	0.766	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFOA	ND	0.188	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFHpS	ND	0.156	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
7:3 FTCA	ND	4.80	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFNA	ND	0.180	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFOSA	ND	0.196	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFOS	ND	0.365	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
9Cl-PF3ONS	ND	0.648	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFDA	ND	0.170	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
8:2 FTS	ND	0.964	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFNS	ND	0.217	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
MeFOSAA	ND	0.321	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
EtFOSAA	ND	0.276	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFUnA	ND	0.133	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFDS	ND	0.258	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFDoA	ND	0.142	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
MeFOSA	ND	0.252	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFTTrDA	ND	0.175	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFDoS	ND	0.204	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
PFTeDA	ND	0.160	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1

Sample ID: PCK-CO-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-07		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	COCKLE								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
MeFOSE	ND	1.67	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
EtFOSE	ND	2.03	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	92.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C5-PFPeA	IS	95.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C2-4:2 FTS	IS	158	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C3-PFBS	IS	96.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C5-PFHxA	IS	107	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C4-PFHpA	IS	98.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C3-HFPO-DA	IS	102	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C2-6:2 FTS	IS	137	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C8-PFOA	IS	84.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C3-PFHxS	IS	103	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C9-PFNA	IS	94.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C2-8:2 FTS	IS	148	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C6-PFDA	IS	116	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
d3-MeFOSAA	IS	86.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C8-PFOS	IS	97.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
d5-EtFOSAA	IS	104	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C7-PFUnA	IS	93.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C8-PFOSA	IS	81.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C2-PFDoA	IS	64.7	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
13C2-PFTeDA	IS	30.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
d7-MeFOSE	IS	41.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
d3-MeFOSA	IS	40.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
d9-EtFOSE	IS	27.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1
d5-EtFOSA	IS	39.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:11	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCK-CO-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-08	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	COCKLE								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFMPA	ND	0.452	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
3:3 FTCA	ND	1.26	2.46		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFPeA	ND	0.354	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFMBA	ND	0.396	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFBS	ND	0.215	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
4:2 FTS	ND	0.979	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFHxA	ND	0.176	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFEESA	ND	0.267	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFPeS	ND	0.236	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
HFPO-DA	ND	0.909	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
NFDHA	ND	0.366	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
5:3 FTCA	ND	3.91	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFHpA	ND	0.166	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
ADONA	ND	0.564	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFHxS	ND	0.265	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
6:2 FTS	ND	0.766	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFOA	ND	0.188	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFHpS	ND	0.156	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
7:3 FTCA	ND	4.80	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFNA	ND	0.180	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFOSA	ND	0.196	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFOS	ND	0.365	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
9Cl-PF3ONS	ND	0.648	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFDA	ND	0.170	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
8:2 FTS	ND	0.964	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFNS	ND	0.217	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
MeFOSAA	ND	0.321	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
EtFOSAA	ND	0.276	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFUnA	ND	0.133	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFDS	ND	0.258	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFDoA	ND	0.142	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
MeFOSA	ND	0.252	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFTTrDA	ND	0.175	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFDoS	ND	0.204	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
PFTeDA	ND	0.160	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1

Sample ID: PCK-CO-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-08		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	COCKLE								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
MeFOSE	ND	1.67	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
EtFOSE	ND	2.03	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	86.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C5-PFPeA	IS	88.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C2-4:2 FTS	IS	139	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C3-PFBS	IS	91.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C5-PFHxA	IS	86.7	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C4-PFHpA	IS	90.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C3-HFPO-DA	IS	93.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C2-6:2 FTS	IS	131	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C8-PFOA	IS	69.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C3-PFHxS	IS	102	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C9-PFNA	IS	90.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C2-8:2 FTS	IS	132	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C6-PFDA	IS	98.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
d3-MeFOSAA	IS	77.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C8-PFOS	IS	84.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
d5-EtFOSAA	IS	85.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C7-PFUnA	IS	85.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C8-PFOSA	IS	77.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C2-PFDoA	IS	61.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
13C2-PFTeDA	IS	36.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
d7-MeFOSE	IS	38.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
d3-MeFOSA	IS	37.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
d9-EtFOSE	IS	31.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1
d5-EtFOSA	IS	37.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:25	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCG-CO-02					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-09	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	COCKLE								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFMPA	ND	0.452	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
3:3 FTCA	ND	1.26	2.46		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFPeA	ND	0.354	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFMBA	ND	0.396	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFBS	ND	0.215	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
4:2 FTS	ND	0.979	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFHxA	ND	0.176	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFEESA	ND	0.267	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFPeS	ND	0.236	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
HFPO-DA	ND	0.909	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
NFDHA	ND	0.366	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
5:3 FTCA	ND	3.91	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFHpA	ND	0.166	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
ADONA	ND	0.564	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFHxS	ND	0.265	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
6:2 FTS	ND	0.766	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFOA	ND	0.188	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFHpS	ND	0.156	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
7:3 FTCA	ND	4.80	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFNA	ND	0.180	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFOSA	ND	0.196	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFOS	ND	0.365	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
9Cl-PF3ONS	ND	0.648	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFDA	ND	0.170	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
8:2 FTS	ND	0.964	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFNS	ND	0.217	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
MeFOSAA	ND	0.321	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
EtFOSAA	ND	0.276	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFUnA	ND	0.133	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFDS	ND	0.258	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFDoA	ND	0.142	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
MeFOSA	ND	0.252	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFTTrDA	ND	0.175	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFDoS	ND	0.204	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1
PFTeDA	ND	0.160	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1

Sample ID: PCG-CO-02					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-09		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	COCKLE									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
MeFOSE	ND	1.67	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
EtFOSE	ND	2.03	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	93.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C5-PFPeA	IS	89.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C2-4:2 FTS	IS	149	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C3-PFBS	IS	93.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C5-PFHxA	IS	93.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C4-PFHpA	IS	90.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C3-HFPO-DA	IS	92.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C2-6:2 FTS	IS	151	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C8-PFOA	IS	83.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C3-PFHxS	IS	103	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C9-PFNA	IS	90.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C2-8:2 FTS	IS	145	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C6-PFDA	IS	111	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
d3-MeFOSAA	IS	93.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C8-PFOS	IS	91.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
d5-EtFOSAA	IS	110	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C7-PFUnA	IS	111	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C8-PFOSA	IS	87.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C2-PFDoA	IS	98.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
13C2-PFTeDA	IS	41.7	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
d7-MeFOSE	IS	32.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
d3-MeFOSA	IS	41.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
d9-EtFOSE	IS	32.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	
d5-EtFOSA	IS	40.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 19:38	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCG-CO-01					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-10	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	COCKLE								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFMPA	ND	0.452	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
3:3 FTCA	ND	1.26	2.46		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFPeA	ND	0.354	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFMBA	ND	0.396	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFBS	ND	0.215	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
4:2 FTS	ND	0.979	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFHxA	ND	0.176	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFEESA	ND	0.267	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFPeS	ND	0.236	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
HFPO-DA	ND	0.909	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
NFDHA	ND	0.366	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
5:3 FTCA	ND	3.91	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFHpA	ND	0.166	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
ADONA	ND	0.564	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFHxS	ND	0.265	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
6:2 FTS	ND	0.766	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFOA	ND	0.188	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFHpS	ND	0.156	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
7:3 FTCA	ND	4.80	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFNA	ND	0.180	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFOSA	ND	0.196	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFOS	ND	0.365	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
9Cl-PF3ONS	ND	0.648	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFDA	ND	0.170	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
8:2 FTS	ND	0.964	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFNS	ND	0.217	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
MeFOSAA	ND	0.321	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
EtFOSAA	ND	0.276	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFUnA	ND	0.133	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFDS	ND	0.258	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFDoA	ND	0.142	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
MeFOSA	ND	0.252	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFTTrDA	ND	0.175	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFDoS	ND	0.204	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1
PFTeDA	ND	0.160	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1

Sample ID: PCG-CO-01					EPA Method 1633					
Client Data					Laboratory Data					
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-10		Column:	BEH C18	
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	COCKLE									
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.306	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
MeFOSE	ND	1.67	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
EtFOSE	ND	2.03	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	93.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C5-PFPeA	IS	98.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C2-4:2 FTS	IS	140	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C3-PFBS	IS	95.3	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C5-PFHxA	IS	93.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C4-PFHpA	IS	97.6	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C3-HFPO-DA	IS	103	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C2-6:2 FTS	IS	136	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C8-PFOA	IS	81.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C3-PFHxS	IS	107	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C9-PFNA	IS	93.7	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C2-8:2 FTS	IS	159	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C6-PFDA	IS	115	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
d3-MeFOSAA	IS	87.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C8-PFOS	IS	95.7	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
d5-EtFOSAA	IS	117	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C7-PFUnA	IS	104	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C8-PFOSA	IS	80.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C2-PFDoA	IS	104	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
13C2-PFTeDA	IS	45.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
d7-MeFOSE	IS	16.5	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
d3-MeFOSA	IS	36.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
d9-EtFOSE	IS	31.0	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	
d5-EtFOSA	IS	38.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:32	1	

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

Sample ID: PCG-CO-03					EPA Method 1633				
Client Data				Laboratory Data					
Name:	Washington State Department of Health	Matrix:	Tissue	Lab Sample:	2409186-11	Column:	BEH C18		
Project:	SHELLFISH PFAS	Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53				
Location:	COCKLE								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.616	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFMPA	ND	0.452	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
3:3 FTCA	ND	1.26	2.46		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFPeA	ND	0.354	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFMBA	ND	0.396	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFBS	ND	0.215	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
4:2 FTS	ND	0.979	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFHxA	ND	0.176	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFEESA	ND	0.267	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFPeS	ND	0.236	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
HFPO-DA	ND	0.909	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
NFDHA	ND	0.366	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
5:3 FTCA	ND	3.91	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFHpA	ND	0.166	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
ADONA	ND	0.564	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFHxS	ND	0.265	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
6:2 FTS	ND	0.766	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFOA	ND	0.188	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFHpS	ND	0.156	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
7:3 FTCA	ND	4.80	14.8		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFNA	ND	0.180	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFOSA	ND	0.196	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFOS	ND	0.365	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
9Cl-PF3ONS	ND	0.648	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFDA	ND	0.170	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
8:2 FTS	ND	0.964	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFNS	ND	0.217	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
MeFOSAA	ND	0.321	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
EtFOSAA	ND	0.276	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFUnA	ND	0.133	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFDS	ND	0.258	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
11Cl-PF3OUdS	ND	0.877	1.97		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFDoA	ND	0.142	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
MeFOSA	ND	0.252	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFTTrDA	ND	0.175	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFDoS	ND	0.204	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
PFTeDA	ND	0.160	0.493		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1

Sample ID: PCG-CO-03					EPA Method 1633				
Client Data					Laboratory Data				
Name:	Washington State Department of Health		Matrix:	Tissue	Lab Sample:	2409186-11		Column:	BEH C18
Project:	SHELLFISH PFAS		Date Collected:	06-Jun-24 00:00	Date Received:	24-Sep-24 07:53			
Location:	COCKLE								
Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	ND	0.306	0.985		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
MeFOSE	ND	1.67	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
EtFOSE	ND	2.03	4.93		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	91.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C5-PFPeA	IS	95.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C2-4:2 FTS	IS	146	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C3-PFBS	IS	84.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C5-PFHxA	IS	101	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C4-PFHpA	IS	96.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C3-HFPO-DA	IS	102	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C2-6:2 FTS	IS	161	20 - 150	Q	B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C8-PFOA	IS	74.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C3-PFHxS	IS	104	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C9-PFNA	IS	88.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C2-8:2 FTS	IS	118	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C6-PFDA	IS	102	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
d3-MeFOSAA	IS	82.8	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C8-PFOS	IS	86.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
d5-EtFOSAA	IS	111	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C7-PFUnA	IS	102	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C8-PFOSA	IS	82.9	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C2-PFDoA	IS	77.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
13C2-PFTeDA	IS	37.5	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
d7-MeFOSE	IS	41.1	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
d3-MeFOSA	IS	44.2	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
d9-EtFOSE	IS	44.4	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1
d5-EtFOSA	IS	44.7	20 - 150		B24I178	02-Oct-24	2.03 g	04-Oct-24 20:46	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to RL.

DATA QUALIFIERS & ABBREVIATIONS

For EPA 1633

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
I	Ion transition ratio is outside of the acceptance criteria.
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	Recovery and/or RPD was outside laboratory acceptance limits
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at [Enthalpy.com/Resources/Accreditations](https://enthalpy.com/Resources/Accreditations).



CHAIN OF CUSTODY

PFAS Methods

For Laboratory Use Only

Work Order #: 2409186 Temp: 15 °C
Storage ID: WF-2 Storage Secured: ☒ Yes ☐ No

Project ID: SHELLFISH PFAS PO#: T160435 Sampler: EMERSON CHRISTIE
(name)

TAT Standard: ☐ 21 days
(check one): Rush (surcharge may apply)
☐ 14 days ☐ 7 days Other: _____

Invoice to: Name WA DOH Company III ISRAEL RD SE Address TUMWATER City WA State 564 Phone # 669 4325

Relinquished by (printed name and signature) EMERSON CHRISTIE EA Date 9/19/24 Time Received by (printed name and signature) Xitlaly Olivos Date 09/24/24 Time 09:53
Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

SHIP TO: Enthalpy Analytical - EDH
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520

Method of Shipment: _____

Add Analysis(es) Requested:

ATTN: _____

Tracking No.: _____

Container(s)

Add Analysis(es) Requested										PFAS by Isotope Dilution	Drinking Water
Container(s)	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1631-Draft	EPA 1631 FINAL	CoD CSM Table B-15	Other:	EPA 533	EPA 537.1	List of 29 (537.1 + 533)
1	1	T		X							
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T									
1	1	T		</							

Requirements:

- ☐ State-specific (list state): _____
☐ DoD QSM Compliant
☐ PFAS List Below (or attach compound list): _____

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1631-Draft	EPA 1631-FINAL	CoD QSM Table B-15	Other	EPA 533	EPA 537.1	List of 29 (537.1 + 533)
PCK-BC-02	6/6/24		BUTTER	1	T		X							
PCK-BC-03			BUTTER	1	T									
PCG-BC-01			BUTTER	1	T									
PCG-BC-02			BUTTER	1	T									
PCG-BC-03			BUTTER	1	T									
PCK-CO-01			COCKLE	1	T									
PCK-CO-02			COCKLE	1	T									
PCK-CO-03			COCKLE	1	T									
PCG-CO-02			COCKLE	1	T									
PCG-CO-01			COCKLE	1	T									
PCG-CO-03			COCKLE	1	T									

Other Instructions/Comments: _____

SEND
DOCUMENTATION
AND RESULTS TO:

Name: EMERSON CHRISTIE
Company: WA DOH
Address: III ISRAEL RD SE
City: TUMWATER State: WA Zip: 98501
Phone: 564 669 4325
Email: EMERSON.CHRESTIE@DOH.WA.GOV

Container Types: P= HDPE, PJ= HDPE Jar
PY= Polypropylene, O = Other: _____

Bottle Preservation Type:
TZ = Trizma: _____ AA = Amm. Acetate: _____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, SD = Sediment, T=Tissue
SL = Sludge, SO = Soil, WW = Wastewater, O = Other: _____

ID: LR-COC

Rev. No. 4

Rev. Date: 6/24/2024

Page: 1 of 1

CoC/Label Reconciliation Report WO# 2409186

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2409186-01	A PCK-BC-02	☒	BUTTER	06-Jun-24 00:00	☐ A	Plastic Bag	Tissue	
2409186-02	A PCK-BC-03	☒	BUTTER	06-Jun-24 00:00	☐	Plastic Bag	Tissue	
2409186-03	A PCG-BC-01	☒	BUTTER	06-Jun-24 00:00	☐	Plastic Bag	Tissue	
2409186-04	A PCG-BC-02	☒	BUTTER	06-Jun-24 00:00	☐	Plastic Bag	Tissue	
2409186-05	A PCG-BC-03	☒	BUTTER	06-Jun-24 00:00	☐	Plastic Bag	Tissue	
2409186-06	A PCK-CO-01	☒	COCKLE	06-Jun-24 00:00	☐	Plastic Bag	Tissue	
2409186-07	A PCK-CO-02	☒	COCKLE	06-Jun-24 00:00	☐	Plastic Bag	Tissue	
2409186-08	A PCK-CO-03	☒	COCKLE	06-Jun-24 00:00	☐	Plastic Bag	Tissue	
2409186-09	A PCG-CO-02	☒	COCKLE	06-Jun-24 00:00	☐	Plastic Bag	Tissue	
2409186-10	A PCG-CO-01	☒	COCKLE	06-Jun-24 00:00	☐	Plastic Bag	Tissue	
2409186-11	A PCG-CO-03	☒	COCKLE	06-Jun-24 00:00	☐	Plastic Bag	Tissue	

Checkmarks indicate that information on the COC reconciled with the sample label.

Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	☒	☐	☐
Sample Custody Seals Intact?	☐	☐	☒
Adequate Sample Volume?	☒	☐	☐
Container Type Appropriate for Analysis(es)	☒	☐	☐

Comments:

① No time listed on COC or sample bag used 00:00

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

Verified by/Date:

16099/24/24
XAO 09/24/24



DOH 334-572 December 2024

To request this document in another format, call 1-800-525-0127. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email doh.information@doh.wa.gov.