# intertek 05

Status Update Report-February 2023

For Site:

WALMART STORE #5667 222 N. Chicago Avenue South Milwaukee Milwaukee County, Wisconsin 53172 WDNR BRRTS Nos. 02-41-556117 & 02-41-556175

Prepared for:

WALMART, INC. 702 SW 8<sup>th</sup> Street Bentonville, AR 72716

Prepared by:

Professional Service Industries, Inc. 821 Corporate Court Waukesha, WI 53189 Telephone (262) 521-2125

PSI Project Number 00542644

March 27, 2023

Patrick J. Patterson, P.E., P.G. Senior Engineer

Pat

Larry Raether, P.E. Principal Consultant



PSI Project 00542644 Walmart Store #5667 March 27, 2023 BRRTS No. 02-41-556117 & 02-41-556175

Professional Service Industries, Inc. 821 Corporate Court Waukesha, WI 53189 Phone: (262) 521-2125 Fax: (262) 521-2471

WDNR-Remediation and Redevelopment Program 1027 West St. Paul Avenue Milwaukee, Wisconsin 53233

- Attn: Eric Amadi Advanced Hydrogeologist Eric.Amadi@Wisconsin.gov
- Re: Status Update Report-PFAS Groundwater Sampling-February 2023 CITY OF S. MILWAUKEE VACANT PARCEL AND MIDWEST TANNING CORP. (FMR) 222 N. Chicago Avenue South Milwaukee, Wisconsin 53172 WDNR BRRTS No. 02-41-556117 & 02-41-556175 PSI Project Number: 00542644

Dear Mr. Amadi:

In February 2023, Professional Service Industries, Inc. (PSI), an Intertek Company, performed a groundwater sampling event on the groundwater wells associated with the above referenced City of S. Milwaukee Vacant Parcel and Midwest Tanning Corp. (Fmr) parcels (Subject Property) for Walmart, Inc. These activities have been completed in accordance with WDNR PFAS sampling requirements. The following is a summary of the work performed, and a field data evaluation and review of the laboratory analytical results for this sampling event.

If you have any questions or comments, please call us at (262) 521-2125.

Respectfully submitted,

**PROFESSIONAL SERVICE INDUSTRIES, INC.** 

Patrick J. Patterson, P.E., P.G. Senior Engineer

Larry Raether, P.E. Principal Consultant



www.intertek.com/building



### TABLE OF CONTENTS

1.0	EXEC	UTIVE SUMMARY	1
2.0	INTR		
2.0	2.1		3
	2.1	PROJECT BACKGROLIND	5 ר
	2.3	PURPOSE	4
3.0	GRO	UNDWATER INVESTIGATIVE ACTIVITIES	5
	3.1	SCOPE SUMMARY	5
	3.2	PREVIOUS FIELD EXPLORATION	5
	3.3	QUALITY ASSURANCE/QUALITY CONTROL MEASURES	6
	3.4	GROUNDWATER OBSERVATIONS AND WELL ELEVATIONS	5
	3.5	LABORATORY ANALYSIS	5
4.0	DATA	A ANALYSIS AND INTERPRETATION	7
	4.1	FIELD AND LABORATORY DATA ANALYSIS	7
	4.2	GROUNDWATER QUALITY STANDARDS	7
	4.3	LABORATORY GROUNDWATER RESULTS	7
5.0	CON	CLUSIONS AND RECOMMENDATIONS	8
6.0	REPR	ESENTATIONS	8
	6.1	WARRANTY	8
	6.2	THIRD PARTY USE	9

#### APPENDIX

Site Location Map Site Features Diagram Well Location Diagram Groundwater Elevation Table Groundwater Flow Direction-February 2023 Groundwater Analytical Results Table-PFASs Laboratory Analytical Report and Chain-Of-Custody Form-February 2023

### 1.0 EXECUTIVE SUMMARY

The Subject Property consists of an approximate 9.6-acre commercial parcel located at 222 N. Chicago Avenue in the City of South Milwaukee, Wisconsin. An approximate 113,000 square foot commercial structure is situated in the western portion of the parcel. Asphalt parking areas, concrete drives and sidewalks, and isolated landscaped areas are present generally located to the north, east and west of the building. The Subject Property is currently used as Walmart Supercenter #5667 and these services were performed for Walmart, Inc.

The surrounding properties to the north, east, and south are generally occupied by commercial, manufacturing facilities and multifamily properties. An existing railroad line is present to the west of the Subject Property.

Two Phase I Environmental Site Assessments (Phase I ESA) were performed by PSI in 2010 for Walmart. One of the Phase I ESAs was completed on the eastern parking lot portion of the existing Walmart property (Subject Property), which was historically occupied by several manufacturing and commercial facilities and residences. One of the manufacturing facilities included the former Rapco Leather Company. The other Phase I ESA was completed on the western portion of the Subject Property that is currently occupied by the existing Walmart store, which was historically occupied by Midwest Tanning Corporation.

Numerous site investigation activities have been completed on the entire Walmart property from the 1990s to present day. Contamination from previous historical property usages on both parcels has been detected in both soil and groundwater. These contaminants generally consist of RCRA Metals, Polynuclear Aromatic Hydrocarbons (PAHs), Volatile Organic Compounds (VOCs), and other compounds. During the site development of the existing Walmart Store #5667, approximately 95,000 tons of impacted soil were removed from the Subject Property and disposed of at a WDNR licensed disposal facility. Residual soil contamination remains on the property within the upper 4-feet, but the residual contamination is covered with at least two feet of landscaped lawn surface, existing building pad, or asphalt parking area which addresses the direct contact exposure pathway.

In a letter issued August 17, 2020, the WDNR stated that responsible parties (RPs) are required to assess for emerging contaminants and their potential impacts on all sites that have not yet been closed. Emerging contaminants include perfluoroalkyl and polyfluoroalkyl substances (PFAS), 1,4-dioxane and other compounds. If a property is deemed a potential source of an emerging contaminants, an evaluation of potential PFAS compounds and other applicable emerging contaminants that were historically or are presently produced, used, handled, stored, or disposed at the site, per Wis. Admin. Code § NR 716.07 and Wis. Admin. Code § NR 716.09 would need to be performed.

Because of the August 17, 2020, WDNR letter and since both parcels were formerly occupied by tanning facilities or facilities that handled tanned products, a potential exists that PFAS containing materials were used, handled, stored, or disposed on these parcels. As such, it was recommended that associated investigative activities be performed to evaluate the presence of PFASs within the groundwater at six existing wells located on the Walmart property. These wells consist of MW-1 and MW-2 that are present in the eastern portion of the Subject Property and MW-4 through MW-7 that are present in the western portion of the Subject Property. The previous well MW-3 was present on the Burger King restaurant parcel located on the northwest corner of N. Chicago Avenue and Davis Avenue but was abandoned prior to the development of the restaurant. In review of the historical property information, no obvious evidence of the use, handling, storage, or the disposal of 1,4-dioxane or other compounds on the Subject Property was observed or apparent within the evaluated



data. As such, further evaluation for the presence of 1,4-dioxane or other compounds is not warranted.

In accordance with a letter issued by the WDNR on April 6, 2021, which indicated that vaporized Trichloroethene (TCE) in indoor air is more toxic than previously understood, specifically in situations where women of child-bearing years are present, an evaluation of the potential presence of TCE contaminants was performed. The evaluation included the review of available historical property usage documents, aerial photographs, Sanborn fire insurance maps and other historical resources for the past usage of TCE. PSI also reviewed available analytical test results for TCE that are associated with previous and recent investigative activities.

In review of the available historical property use information and other collected environmental data, the previous property usage does not have the likely potential for the presence of vaporized TCE. In addition, no obvious evidence was collected that indicated that the onsite subsurface material contained vaporized TCE contaminants. Based upon the soil and groundwater analytical testing and the petroleum impacted soil remedial activities performed on the Subject Property, there is no obvious evidence that vaporized TCE is present on the Subject Property. Further, in review of the vapor analytical testing of the samples collected from subsurface vapor points, no vaporized TCE was detected in any of the collected vapor samples.

On August 19, 2022, PSI collected five (5) groundwater samples from five of the existing wells. One of the wells was dry at the time of sampling. PFASs were detected in most of the water samples and several of them were above recommended NR140 standards. Because of these test results and to further evaluate the groundwater conditions, PSI recommended the completion of another groundwater sampling event to test for PFASs.

Following approval from Walmart on February 6, 2023, PSI collected groundwater samples from five of the existing wells. One of the wells was dry at the time of sampling. PFASs were detected in the collected water samples. However, the detected compounds in MW-1 and MW-6 were at levels below recommended NR140 standards. Several compounds detected in the samples collected from MW-4, MW-5 and MW-7 were above recommended NR140 standards. MW-4, MW-5, and MW-7 are located south of the existing Walmart store and near the southern portion of the former Midwest Tanning facility. Because of these test results and in accordance with WDNR groundwater monitoring requirements, PSI recommended the completion of another groundwater sampling event to test for PFASs.

This summary is not to be used alone. The report must be read in its entirety.

(in)

Project Number: 00542644 Walmart Store #5667 BRRTS No. 02-41-556117 & 02-41-556175 March 27, 2023 Page 3

### 2.0 INTRODUCTION AND BACKGROUND

### 2.1 SITE DESCRIPTION

The Subject Property consists of an approximate 9.6-acre commercial parcel located at 222 N. Chicago Avenue in the City of South Milwaukee, Wisconsin. An approximate 113,000 square foot commercial structure is situated in the western portion of the parcel. Asphalt parking areas, concrete drives and sidewalks, and isolated landscaped areas are present generally located to the north, east and west of the building. The Subject Property is currently used as Walmart Supercenter #5667. The general location of the Subject Property is shown on the Site Location Map in the Appendix.

The surrounding properties to the north, east, and south are generally occupied by commercial and manufacturing facilities and multifamily properties. An existing railroad line is present to the west of the Subject Property. A diagram showing the general site features is also included in the Appendix.

### 2.2 PROJECT BACKGROUND

Two Phase I Environmental Site Assessments (Phase I ESA) were performed by PSI in 2010 for Walmart. One of the Phase I ESAs was completed on the eastern parking lot portion of the existing Walmart property (Subject Property), which was historically occupied by several manufacturing and commercial facilities and residences. One of the manufacturing facilities included the former Rapco Leather Company. This portion of the Subject Property is referenced by the WDNR as "City of South Milwaukee Vacant Parcel" and assigned BRRTS No. 02-41-556175. The other Phase I ESA was completed on the western portion of the Subject Property that is currently occupied by Walmart Store #5667, which was historically occupied by Midwest Tanning Corporation. This portion of the Subject Property is referenced by the WDNR as "Midwest Tanning Corp. (Fmr)" and assigned BRRTS No. 02-41-556117.

Numerous site investigation activities have been completed on the entire Walmart property from the 1990s to present day. Contamination from previous historical property usages on both parcels has been detected in both soil and groundwater. These contaminants generally consist of RCRA Metals, Polynuclear Aromatic Hydrocarbons (PAHs), Volatile Organic Compounds (VOCs), and other compounds. During the site development of the existing Walmart Store #5667 in 2012, approximately 95,000 tons of impacted soil were removed from large areas of the Subject Property and disposed of at a WDNR licensed disposal facility. Residual soil contamination remains on the property within the upper 4-feet, but the residual contamination is covered with at least two feet of landscaped lawn surface, existing building pad, or asphalt parking area which addresses the direct contact exposure pathway.

In a letter issued August 17, 2020, the WDNR stated that responsible parties (RPs) are required to assess for emerging contaminants and their potential impacts on all sites that have not yet been closed. Emerging contaminants include perfluoroalkyl and polyfluoroalkyl substances (PFAS), 1,4-dioxane and other compounds. If a property is deemed a potential source of an emerging contaminants, an evaluation of potential PFAS compounds and other applicable emerging contaminants that were historically or are presently produced,



used, handled, stored, or disposed at the site, per Wis. Admin. Code § NR 716.07 and Wis. Admin. Code § NR 716.09 would need to be performed.

Because of the August 17, 2020, WDNR letter and since both parcels were formerly occupied by tanning facilities or facilities that handled tanned products, a potential exists that PFAS containing materials were used, handled, stored or disposed on these parcels. As such, it was recommended that associated investigative activities be performed to evaluate the presence of PFASs within the groundwater associated with six existing wells present on the Walmart property. These wells consist of MW-1 and MW-2 that are present in the eastern portion of the Subject Property and MW-4 through MW-7 that are present in the western portion of the Subject Property. The previous well MW-3 was present on the Burger King restaurant parcel located on the northwest corner of N. Chicago Avenue and Davis Avenue but was abandoned prior to the development of the restaurant.

In review of the historical property information, no obvious evidence of the use, handling, storage or the disposal of 1,4-dioxane or other compounds on the Subject Property was observed or apparent within the evaluated data. As such, further evaluation for the presence of 1,4-dioxane or other compounds is not warranted.

A Site Investigation Workplan, dated July 29, 2022, was prepared in accordance with WDNR requirements and submitted to the WDNR for inclusion into their files on August 12, 2022. The WDNR subsequently contacted PSI to briefly discuss the SIWP. They indicated that they concur that groundwater sampling for the presence of PFAS should occur, but they indicated that additional site investigative activities may be required in the future to complete the site investigation of the Subject Property.

In accordance with a letter issued by the WDNR on April 6, 2021, which indicated that vaporized Trichloroethene (TCE) in indoor air is more toxic than previously understood, specifically in situations where women of child-bearing years are present, an evaluation of the potential presence of TCE contaminants was performed in August 2022. The evaluation included the review of available historical property usage documents, aerial photographs, Sanborn fire insurance maps and other historical resources for the past usage of TCE. PSI also reviewed available analytical test results for TCE that are associated with previous and recent investigative activities. The evaluation of the historical property usage and a review of historical analytical test results for the potential use of Trichloroethene (TCE) on the Subject Property or the evidence of the presence of high concentrations of TCE within previously collected soil, groundwater, and soil vapor samples from historical investigative activities.

On August 19, 2022, PSI collected five (5) groundwater samples from five of the existing wells. One of the wells was dry at the time of sampling. PFASs were detected in most of the water samples and several of them were above recommended NR140 standards. Because of these test results and to further evaluate the groundwater conditions, PSI recommended the completion of another groundwater sampling event to test for PFASs.

Because of the August 2022 analytical test results, additional groundwater sampling activities for the presence of PFASs were completed in February 2023 for Walmart, Inc. and are discussed in the following paragraphs.

Project Number: 00542644 Walmart Store #5667 BRRTS No. 02-41-556117 & 02-41-556175 March 27, 2023 Page 5

### 2.3 PURPOSE

The purpose of this report is to present the groundwater conditions encountered during the February 2023 groundwater sampling event of five of the existing six groundwater wells, and laboratory test results of submitted groundwater samples. The laboratory analyses included testing for the presence of PFASs/PFOSs. One of the groundwater monitoring wells was dry at the time of the sampling event and not sampled. Groundwater elevations were obtained during these recent activities.

The activities were not intended to be an all-inclusive search for hazardous substances and do not necessarily preclude the presence of other compounds or contaminants in this or other areas of the Subject Property.

### 3.0 GROUNDWATER INVESTIGATIVE ACTIVITIES

### 3.1 SCOPE SUMMARY

The scope of services described in this report included the purging of five wells, the collection and laboratory testing of groundwater samples from MW-1 and MW-4 through MW-7 on February 6, 2023, and an evaluation of the data obtained. MW-2 was dry at the time of the February 2023 sampling event. The groundwater samples were submitted for analysis for the presence of PFASs/PFOSs. A well location diagram is included in the Appendix.

### 3.2 PREVIOUS FIELD EXPLORATION

Site investigative activities have been performed within the area of the Subject Property from the early 1990s to about 2014. This data was subsequently submitted to the WDNR for their review and comment in several documents and WDNR forms. Two separate Wisconsin Department of Natural Resources' (WDNR) Bureau of Remediation and Redevelopment Tracking (BRRTS) cases were created for the Subject Property. They consisted of the Former Midwest Tanning Corporation Parcel (BRRTS No. 02-41-556117) with a former address of 1200 Davis Avenue and is situated in the western portion of the site, and the City of South Milwaukee Vacant Parcel (BRRTS No. 02-41-556175), which is situated in the eastern portion of the site. Both sites have been investigated from the 1990s through 2014. In addition, remedial actions have been performed on the Subject Property prior to and during the existing site development of the Walmart Store in 2012.

Following past investigative and remedial activities, PSI submitted case closure requests to the WDNR for the Former Midwest Tanning Corporation parcel in 2016 and for the City of South Milwaukee Vacant Parcel in 2018. In the Midwest Tanning Corp case, the WDNR requested that additional investigation be performed around a previous soil boring completed by another consultant with high levels of Chromium to further evaluate for the presence of Hexavalent Chromium, Trivalent Chromium and Total Chromium in soil and groundwater and, also to evaluate for the presence of Cyanide in soil. In the City of South Milwaukee Vacant Parcel case, the WDNR requested revisions be completed for the submitted case closure document and an evaluation of potential for vapor intrusion along migration pathways pertaining to requirements expressed in the WDNR document RR-800 "Addressing Vapor intrusion".



Project Number: 00542644 Walmart Store #5667 BRRTS No. 02-41-556117 & 02-41-556175 March 27, 2023 Page 6

PSI completed additional site investigation activities on both BRRTS cases associated with the Subject Property in January and February 2021. These services included the installation of five soil vapor points, the installation of a sample port on a vent stack pipe associated with an existing subsurface passive venting system, sampling collected soil vapor samples for Petroleum Volatile Organic Compounds (PVOCs) and Naphthalene, monitoring for Methane and volatile vapors on the City of South Milwaukee Parcel (BRRTS No. 02-41-556175), the installation of a NR141-compliant groundwater well, soil and groundwater collection and testing for the presence of Chromium, Hexavalent Chromium, Trivalent Chromium, and Cyanide on the former Midwest Tanning Corp. Parcel (BRRTS No. 02-41-556117).

The results of the additional site investigation activities performed on the City of South Milwaukee Parcel indicated that no PVOCs and Naphthalene vapors were detected within the five soil vapor points or the existing vent stack that exceed current WDNR Vapor Risk Screening Levels. In addition, no Methane was detected at levels that would be considered explosive levels. Further, no other volatile vapors were detected utilizing a Photoionization Detector.

The results of the additional site investigation activities performed on the Former Midwest Tanning Corp. Parcel indicated that no Dissolved Chromium, Hexavalent Chromium, Trivalent Chromium, and Cyanide were detected above the laboratory limit of detection (LOD) within the groundwater sample collected from the newly installed well (MW-7). In addition, no Hexavalent Chromium and Cyanide were detected above the laboratory LOD in the soil sample and the detected Total Chromium, and the calculated Trivalent Chromium levels are below the current NR720 BTV for Chromium.

### 3.3 QUALITY ASSURANCE/QUALITY CONTROL MEASURES

All equipment decontamination, sample collection, sample custody records, and analysis were performed in general accordance with methods prescribed by the United States EPA and the WDNR for the sampling of PFASs/PFOSs in groundwater. Single-use disposable Nitrile<sup>™</sup> gloves and PFAS-free disposable bailers were used for each well attempting to eliminate cross-contamination between sampling locations. Samples were placed in laboratory supplied containers and canisters. All samples were placed in a cooler packed with ice and transported under chain-of-custody to Pace Analytical Services, LLC. (Pace) in Green Bay, Wisconsin for chemical analysis.

### 3.4 GROUNDWATER OBSERVATIONS AND WELL ELEVATIONS

The elevations of the top of the PVC riser pipe of each of the wells were previously determined by PSI personnel using conventional leveling techniques. The elevations were referenced to the top nut of the fire hydrant on the eastside of the intersection of Chicago Avenue and Davis Avenue with an assigned elevation of EL. 658.89±. On February 6, 2023, the groundwater levels were measured within the monitoring wells at depths ranging from 9.97 to 24.57 feet below top of casing (EL. 635.81± to EL. 649.42±). The measured groundwater elevations have generally ranged between about EL. 635 to about EL. 655 from May 2013 to February 2023. Further, the groundwater level measurements collected from MW-5 have been consistently higher than the measurements collected from MW-4, MW-6, and MW-7 during recent and past sampling events and, it is anticipated that the levels measured in MW-5 represent a perched groundwater table in the isolated area of MW-5. A groundwater flow diagram using the measurements collected from MW-4, MW-6, and MW-7 is included in the Appendix.

(in)

Project Number: 00542644 Walmart Store #5667 BRRTS No. 02-41-556117 & 02-41-556175 March 27, 2023 Page 7

### 3.5 LABORATORY ANALYSIS

Based upon the August 2022 analytical test results, groundwater samples collected on February 6, 2023, from the five specific wells were submitted for analytical testing for the presence of specific WDNR PFAS/PFOS. These samples were placed into PFAS-free, laboratory provided plastic containers. The samples were placed on ice, chain of custody procedures initiated, and the samples were submitted to Pace Analytical. The analytical report and chain of custody form are included in the Appendix.

### 4.0 DATA ANALYSIS AND INTERPRETATION

### 4.1 FIELD AND LABORATORY DATA ANALYSIS

Analysis and interpretation of the groundwater data generated during the sampling events is presented in the following sections. Where appropriate, the results are compared with regulatory limits for the chemicals identified in the applicable media. Copies of the laboratory analytical reports and chain-of-custody documentation are provided in the Appendix.

### 4.2 GROUNDWATER QUALITY STANDARDS

The Enforcement Standards (ESs) and Preventive Action Limits (PALs) are Groundwater Quality Standards for several Per- and Polyfluoroalkyl Substances (PFAS) which have been recommended by the Department of Health Services to be included in NR140 of the Wisconsin Administrative Code. The WDNR is in the process of evaluating the recommended standards for inclusion into the NR140 standard table. The DHS recommends a combined ES of 20 ng/L and combined PAL of 2 ng/L for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA. These recommended standards are referenced when evaluating the need for further study or remedial activities. The PAL is the more stringent guideline, in terms of being lesser in magnitude than the ES but will typically require less response action when exceeded. The required action is determined by WDNR regulations, based on various site-specific considerations.

### 4.3 LABORATORY GROUNDWATER RESULTS

The February 2023 groundwater test results indicated the presence of several PFAS/PFOS in the collected samples from the wells. However, none of the concentrations detected in the water samples collected from MW-1 and MW-6 were above DHS-recommended NR140 standards or were indicated as laboratory estimated values and are not considered accurate by the WDNR. Further, only concentrations of five PFASs were above current DHS-recommended NR140 standards in the remaining wells. Perfluorooctanesulfonic acid (PFOS) was detected in the water samples collected from MW-4, MW-5, and MW-7 at levels of 40 nanograms per liter (ng/l), 930 ng/l, and 270 ng/l, respectively, which are above their recommended NR140 ES of 20 ng/l. Perfluorooctanoic acid (PFOA) was detected in the water samples collected from MW-7 at levels of 43 ng/l, 190S ng/l, and 170 ng/l, respectively, which are above their recommended NR140 ES of 20 ng/l. Perfluorohexanesulfonic acid (PFHxS) was detected in the water samples collected from MW-5, and MW-7 at levels of 110 ng/l and 55 ng/l, respectively, which are above their recommended NR140 ES of 40 ng/l and a level of 14 ng/l detected in the water sample from MW-4, which is above its recommended NR140 PAL of 4.0



Project Number: 00542644 Walmart Store #5667 BRRTS No. 02-41-556117 & 02-41-556175 March 27, 2023 Page 8

ng/l. Perfluorononanoic acid (PFNA) was detected in the water sample collected from MW-5 at a level of 4.1 ng/l, which is above its recommended NR140 PAL of 3.0 ng/l, but below its recommended NR140 ES of 30 ng/l. N-ethylperfluoro-1-octane sulfonamidoacetic acid (NEtPFOSA) was detected in the water samples collected from MW-4 and MW-5 at levels of 19 ng/l and 4.1J ng/l, respectively, which are above its recommended NR140 PAL of 2.0 ng/l, but below its recommended NR140 ES of 20 ng/l. Other PFASs were detected in the water samples collected from these wells but were at concentrations below recommended NR140 groundwater quality standards or no NR140 standards have been recommended by the DHS.

The results of the laboratory analyses of the collected water samples and their respective DHS-recommended NR140 standards are summarized on the groundwater analytical table included in the Appendix. The analytical laboratory test report and chain of custody form are included in the Appendix.

### 5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the historical remedial actions performed during the 2012 site development, which included the placement of an engineered cap/barrier that covers the entire Subject Property with at least a two-foot layer of imported soil fill or concrete/asphalt pavement, and the current property use, investigative activities for evaluating the subsurface soils for the presence of PFASs is not warranted.

In review of the recent and previous analytical test results, PFASs are present in the groundwater generally in the southwestern portion of the Walmart Store #5667 parcel at concentrations above the DHS-recommended NR140 ESs with lesser concentrations in the northwestern portion slightly above the DHS-recommended NR140 PAL.

Based upon the analytical test results of the recent and previous groundwater sampling events and the WDNR requirement of four groundwater monitoring events when contaminants are encountered above NR140 standards, it is recommended that an additional groundwater sampling event be performed on the existing wells to further evaluate the presence of the PFAS-impacted groundwater contamination.

The recommended additional groundwater sampling event of the above-mentioned wells should be completed in May 2023.

### 6.0 **REPRESENTATIONS**

### 6.1 WARRANTY

The field observations, measurements, and research reported herein are considered sufficient in detail and scope to form a reasonable basis for the work performed at this site. The assessment, conclusions, and recommendations presented herein are based upon the subjective evaluation of limited data. They may not represent all conditions at the Subject Property as they reflect the information gathered from specific locations. PSI warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental investigation methodology and only for the site described in this report.



Project Number: 00542644 Walmart Store #5667 BRRTS No. 02-41-556117 & 02-41-556175 March 27, 2023 Page 9

The soil and groundwater investigation of this site has been developed to provide the client with information regarding apparent indications of environmental concerns relating to the Subject Property. It is necessarily limited to the conditions observed and to the information available at the time of the work.

Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the assessment or which were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. The description, type, and composition of what are commonly referred to as "hazardous materials or conditions" can also change over time. PSI does not accept responsibility for changes in the state of the art, nor for changes in the scope of various lists of hazardous materials or conditions. PSI believes that the findings and conclusions provided in this report are reasonable.

### 6.2 THIRD PARTY USE

This report was prepared pursuant to the contract PSI has with Walmart, Inc. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than Walmart, Inc.; and their respective successors, assigns, affiliates and subsidiaries, under the same conditions as if it had been prepared for them, is prohibited and therefore not foreseeable to PSI.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to PSI's contract with Walmart, Inc. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

APPENDIX



Source: United States Geological Survey, South Milwaukee, Wisconsin, 7.5-Minute Topographic Maps, 1958, photorevised 1971, photoinspected 1976



Northeast 1/4 of the Northwest 1/4, Section 2, Township 5 North, Range 22 East

		BRRTS No. 02-41-5	56117 & 02-41	-556175
	Environmental Services	Wal-Mart Store #5667-00	DATE:	PROJECT NO:
Information	821 Corporate Court	222 N Chicago Ave, South Milwaukee	10/27/2022	00542644
Engineering • Consulting • Testing	Waukesha, Wisconsin 53189	Milwaukee County, Wisconsin 53172		
	(262) 347-0898 Fax (262) 521-2471	Site Location Map	Fig	ure 1





#### **Groundwater Elevation Table**

#### Wal-Mart Store #5667 (City of South Milwaukee and Former Midwest Tanning Corp.) 222 North Chicago Avenue South Milwaukee, Wisconsin 53172 PSI Project No. 00542644

#### BRRTS No. 02-41-556175 and 02-41-556117

	MV	V-1	MV	V-2	MV	V-4	MV	V-5	MV	V-6	MV	V-7
	GS Elev. =	661.75	GS Elev. =	662.39	GS Elev. =	665.89	GS Elev. =	664.89	GS Elev. =	664.98	GS Elev. =	665.90
	TOC Elev. =	661.20	TOC Elev. =	661.89	TOC Elev. =	665.34	TOC Elev. =	664.39	TOC Elev. =	664.57	TOC Elev. =	665.38
Date Collected	TOS Elev. =	656.20	TOS Elev. =	656.89	TOS Elev. =	660.34	TOS Elev. =	659.39	TOS Elev. =	659.57	TOS Elev. =	660.38
	BOW Elev. =	636.10	BOW Elev. =	638.66	BOW Elev. =	636.06	BOW Elev. =	639.78	BOW Elev. =	639.39	BOW Elev. =	635.78
	Depth to	GW										
-	GW	Elevation										
5/30/2013					22.65	642.69	11.41	652.98	21.88	642.69		
6/10/2013	14.81	646.39	18.90	642.99	23.06	642.28	15.28	649.11	22.02	642.55		
6/11/2013												
6/17/2013												
9/10/2013	15.21	645.99	19.15	642.74	23.20	642.14	11.56	652.83	22.19	642.38		
11/26/2013	15.46	645.74	19.33	642.56	23.36	641.98	11.58	652.81	22.33	642.24		
2/27/2014	15.83	645.37			24.11	641.23	11.72	652.67				
2/28/2014			19.81	642.08					22.99	641.58		
1/25/2021					22.93	642.41	9.9	654.49	21.81	642.76		
3/15/2021	14.64	646.56	16.35	645.54	22.67	642.67	9.62	654.77	21.73	642.84	23.88	641.50
2/6/2023	15.6	640.60			23.55	636.79	9.97	649.42	22.47	637.10	24.57	635.81

Notes:

GS Elev. - Ground Surface Elevation

TOC Elev. - Top of Casing Elevation

TOS Elev. - Top of Screen Elevation

BOW Elev. - Bottom of Well Elevation

GW - Groundwater

1 - Depth to groundwater measured from top of well casing

Benchmark elevation = EL. 658.89 (fire hydrant east side of Chicago Ave and Davis Ave.)



#### **Groundwater Analytical Results Table**

City of S. Milwaukee Vacant Parcel and Midwest Tanning Corp. (FMR) 222 N. Chicago Avenue South Milwaukee, Wisconsin 53172 PSI Project No. 00542644

#### BRRTS No. 02-41-556175 & 02-41-556117

	Location	MV	V-1	M	N-4	M	N-5	M	V-6	M	N-7	Recom	mended 140
	Date	8/19/22	2/6/23	8/19/22	2/6/23	8/19/22	2/6/23	8/19/22	2/6/23	8/19/22	2/6/23	ES	PAL
Analytical Pa	Units												
Detected PFAS	/PFOS												
PFBA	ng/l	6.6	4.6	16	17	14	15	5.2	5.8	18	18	10,000	2.000
PFPeA	ng/l	3.2	1.6J	15	15	11	11	2.9	3.4J	18	21		
PFBS	ng/l	0.64J	0.72J	18	15	20	24	2.4	2.6J	23	28	450,000	<u>90,000</u>
PFHxA	ng/l	<0.89	1.4J	35	28	24	25	3.1	2.4J	45	50	150,000	<u>30,000</u>
PFPeS	ng/l	<0.59	<0.52	12	6.7	24	28	<0.6	<0.54	17	21		
PFHpA	ng/l	<0.68	<0.39	17	11	22	21	1.3J	1.1J	24	30		
PFHxS	ng/l	<0.52	<0.48	<u>28</u>	<u>14</u>	92	110	<0.53	<0.51	43	55	40	<u>4</u>
PFOA	ng/l	1.1J	<0.73	100	43	180	190S	<u>2.2</u>	<u>2.2J</u>	120	170	а	а
6:2 FTS	ng/l	<0.66	<1.8	0.95J	<1.9	<0.65	<1.9	<0.67	<1.9	<0.7	<1.9		
PFHpS	ng/l	<0.65	<0.44	3.2	1.3J	25	20	<0.66	<0.46	7.5	9.3		
PFNA	ng/l	<0.78	<0.41	1.1J	<0.44	<u>3.9</u>	<u>4.1</u>	<0.79	<0.41	1.5J	2.0J	30	<u>3</u>
PFOSAm	ng/l	<0.56	<0.54	4.3	2.1J	46	19	<0.71	<0.42	<0.74	<0.56		
PFOS	ng/l	28	<1.8	64	40	940D	930	<0.66	<1.8	481	270	а	а
MeFOSA	ng/l	<0.54	<1.1	0.79J	<1.2	<0.53	<1.2	<0.55	<1.2	<0.57	<1.2		
PFDA	ng/l	<0.6	<0.46	<0.6	<0.50	0.96J	0.81J	<0.6	<0.48	<0.63	<0.48	300	<u>60</u>
NMeFOSAA	ng/l	<0.68	<0.82	78	66	17	8.6	<0.69	<0.85	<0.72	<0.85		
NEtFOSAA	ng/l	1.3J	<0.66	17	19	8	4.1J	<0.81	<0.69	<0.84	<0.69	а	а

Notes:

Bold concentrations exceed DHS Recommended NR 140 Enforcement Standards (ESs)

Italicized/underlined concentrations exceed DHS Recommended NR 140 Preventive Action Limits (PALs)

---- - Not analyzed/Not Established

ng/l -nanograms per liter

a - DHS recommends a combined ES of 20 ng/L and combined PAL of 2 ng/L for FOSA, NEtFOSA, NEtFOSA, NEtFOSA, PFOS, and PFOA

D - result obtained from analysis of diluted sample

I - isotope ratio out of specification

S - MS/MSD failure

Q - Surrogate failure

J - laboratory estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation

PFPeA detected in 2-2023 field blank at 0.71J ng/l



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

February 24, 2023

Patrick Patterson PSI 821 Corporate Ct. Suite 102 Waukesha, WI 53189

RE: Project: 00542644-WALMART Pace Project No.: 40258010

Dear Patrick Patterson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 08, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

) H

Angela Lane angela.lane@pacelabs.com (920)469-2436 Project Manager

Enclosures



### **REPORT OF LABORATORY ANALYSIS**



#### SAMPLE SUMMARY

Project: 00542644-WALMART

Pace Project No.: 40258010

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40258010001	 MW-1	Water	02/06/23 13:15	02/08/23 08:45
40258010002	MW-4	Water	02/06/23 13:50	02/08/23 08:45
40258010003	MW-5	Water	02/06/23 14:25	02/08/23 08:45
40258010004	MW-6	Water	02/06/23 14:10	02/08/23 08:45
40258010005	MW-7	Water	02/06/23 14:30	02/08/23 08:45
40258010006	FIELD BLANK	Water	02/06/23 13:10	02/08/23 08:45

**REPORT OF LABORATORY ANALYSIS** 



#### **PROJECT NARRATIVE**

Project:

Pace Project No.:

Method: Description: Client: Date:

This data package has been reviewed for quality and completeness and is approved for release.

**REPORT OF LABORATORY ANALYSIS** 

10 A A A A A A A A A A A A A A A A A A A	CHAIN	-OF-CU	STODY	Analyti	cal Requ	uest Do	cume	nt	der.		LAB	USE OI	NLY- Aff	x Worko	rder/Lo MTJL	gin Lal Log-in	oel Here or List I Number Here	ace Workorder Numb	er or	
	Chain-	of-Custody	is a LEGAL	DOCUMEN	T - Complet	e all relever	nt fields				¢		c	÷			425	500	41 A	,
Company: PST Inc			Billing Info	ormation:	_					20		2	ALL S	HADE	D AR	EAS	are for LAE		i <sup>di</sup>	k.,
Address: 821 Corporate C	T Wark	sha w	,	Sam	е					14	Cont	ainer I	Preserva	tive Type	**		Lab Project	Manager:	с.,	
Report To: Pat Patterso	<u>и</u>	<u>, ., ., .</u>	Email To:						** P	reserva	tive Type	es: (1) n	itric acid	(2) sulfuri	c acıd, (3	) hydro	chloric acid, (4) so	dium hydroxide, (5) zinc a	cetate,	
Copy To:	<u> </u>		Site Collee	ction Info/A	Address:	the Mi	Into it	00	(6)n (C)a	nethanc ammoni	ol, (7) soo um hydr	dıum bı oxıde, (	sulfate, ( D) TSP, (I	3) sodium t J) Unprese	hiosulfa rved, (O	te, (9) h Other	exane, (A) ascorbi	c acid, (B) ammonium sulf	ate,	
Customer Project Name/Number:			State:	County/C	ity: Tin	ne Zone Co	llected:		├	1	ŝ.		Analyse	S 6	T	-	Lab Profile/ Lab Sam	Line: ple Receipt Check	List:	
00542644 - W	almart	<u> </u>	WI1		[]	] PT [ ] MT	[]СТ	[ ] ET	1 est		1.0						Custody	Seals Present/In	tact Y N NA	· · ·
Phone: 262-521-2125 Email:	Site/Facility I	) #:			Complianc [ ] Yes	e Monitori: [ ] No	ng?		e.					4			Custody Collect	Signatures Present or Signature Present	nt YN NA	
Collected By (print):	Purchase Ord	er #:			DW PWS I	D #:			1					be.		, к.	Correct	Bottles	Y N NA Y N NA	, ' 
Collected By (signature):	Turnaround D	ate Requir	ed:		Immediate	on Code: ely Packed d	on Ice:		e 50							4 C - M	Samples VOA - H	Received on lee	Y∙N NA Îe∕YN NA	alt i
2mg Aking					[]Yes	[ ] No				1			æ	r <sub>at</sub> t nig		61	USDA Re Samples	gulated Soils in Holding Time	2 Y N NA	а т. С. к. к.
Sample Disposal: [] Dispose as appropriate [] Return	Rush: []Sa	ame Day	[] Next D	ау	Field Filter	red (If appli	cable):		1.400		e e e	ĺ		¢.		- 6	Residua Cl Stri	1 Chlorine Presen	YN NA	*\$% <sup>1</sup> 7
[ ] Archive:	[]2 Day	[ ] 3 Day	[]4 Day	[ ]5 Day	Analysis:				. 10		λ.	ľ	A.	i. h. Mar		e r	Sample pH Stri	pH Acceptable	A BNA	5 80
* Matrix Codes (Insert in Matrix bo	x below): Drini	king Water	(DW), Grou	und Water	(GW), Wast	ewater (W	N),			N	-		8	*			Sulfide Lead Ac	Present etate Strips:	Y N NA	° 2
Product (P), Soil/Solid (SL), Oil (O	L), Wipe (WP),	Air (AR), T	ssue (TS), E	Bioassay (B)	, Vapor (V),	Other (OT)		<u> </u>					an air an			ĸ	LAB USE	ONLY:		Ny de
Customer Sample ID	Matrix *	Comp / Grab	Collec	ted (or site Start)	Compo	site End	Res Cl	# of Ctns	•	4			e e					pie # / Comments:	has a general the second	- Lease
			Date	Time	Date	Time	<u> </u>			1~	<i>K</i>			ie kosi		-101	. * .	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* * ''	$\rightarrow$
NW-7 - D.	GW		2/6	1315				2	·	$\uparrow$				_	┝──┼		00	ten da i	haqad a Tau	≪n a A
Mul-H	<u> </u>		+	1350				2	ik i v	x			e# K	· &			-	10 · · · · · · · · · · · · · · · · · · ·	a contract of	Ťħ. i
MW-5		_		1425	-			2	+	$\frac{1}{x}$	haller			*				2	All a	
MW-6				1410				2	1	X			-	A 96.			and	kan menantanan	y Mas	were t
MW-7	Y			1:430				2	¢	X	ж.		stering .	~ ~		theles	00	······ * * *	the term that	alfa, et d
Field Blank	707	-	Ψ.	1310				2	24	Х	4.			the she		2	006	9 diga 4 di dina - 1 na	2	4 25
					<b> </b>					-			4.16			esta,	in et i	, a the second	and w de	antifice and
		-							6		and a		2	all and a second		5 45 45 45 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· /~@8	dan i siste		67
Customer Remarks / Special Condit	ions / Possible	Hazards:	Type of Ic	e Used: 🕅	Wet 1	Blue Dr	y No	one (		I SHC	DRT HO	LDS PR	ESENT (	<72 hour	5): Y	N	N/A	Lab Sample Temperati	ure Info:	- ditates
	• • • • • •		Packing N	Naterial Use	ed:	$\overline{\mathcal{T}}$				Lab	Trackir	ng #:		001		2	e litter streett	Temp Blank Receive	ed: YNN	аларта (, <sup>1</sup> , арада А
			,	л. 16 2		se nelle	a r ke	w.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	at in	nthe		824	02	<u>ර</u> .	a met	Cooler 1 Temp Opt	n Receipt:	_oC	
		Radchem	sample(s)	screened (<	500 cpm):	YN	I NA	1	Sam	ples re FEDEX	ceived JUI	via: PS C	ient (	Courier	Pa	ce Courier	Cooler 1 Therm Co Cooler 1 Corrected	r. Factor: Temp:	0C	
Relinquished by/Company: (Signatu	Dat	e/Time:	Time: Received by/Company: (Signature)					e) Date/Time: MTJL LAB USE ONLY					· · · ·							
Lug Hergel 24			7/23 8:30					Table # Arcting and a second an					i i activ	i viene						
Relinquished W/Company: (Signature) Dat			te/Time: Received by/Company: (Signature)				ature) Date/Time: Template: Trip Blank Received: Y N					: Y N N	NÁ.							
Belinguished by/Company: (Signature)			2/8/2308/15 Sondratee			c	H Data/	6//2	1309	5 <u>45</u> Pre	login:	romati e	ю, N. – Ч. с. Г. р.	HCL MeOH	TSP Other	(62) - (54)				
initialities by company. (pighatt			er nine:			y/compan	a. (Sigua	ure)			Date/1	inne:		PM PR	• sha	مر	rðall. N	Non Conformance(s) YES / NO	: Pagge_4 o of:	<u>it 35</u>

DC#\_Title: ENV-FRM-GBAY-0035 v03\_Sample Preservation Receipt Form Effective Date: 8/16/2022

C All c		it Na ners n	ime: leeding	g pres	P	5 on ha	I ve be	en ch	ecked	and r	noted t	below		Sarr ⊡Ye	n <b>ple</b> Proj s	Pres ect i	serva #		Re	ceip L	ot Fo	orm	<b>( )</b> H adiu	usted)					Ini	tial wh	en ed:		Date/	
				Glass			_			Plast	ic.					Via	als				J	ars			Gen	eral		ls (>6mm) *	pH s2	n Act pH ≥9	H ≥12	H 52	adjusted	Volume (mL)
Pace Lab #	AG1L	BG1L	AG1F	AG4S	AG5L	AG2S	BG3L	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG91	VG9L	VG9F	VG9N	VG9D	JGFU	JG9U	WGFI	WPFI	SP5T	ZPLC	GN 1	GN 2	voA Via	H2SO4	NaOH+Z	NaOH p	HNO3 p	pH after	(
001					No. 2005.11				2																									2.5/5
002				8.44	141			ЯĤ	2	St. Jaw			<b>金</b> 卡	÷ j.		3-7-J	53	÷ . 1	8 & 54 1		1 <b>1</b> 1 1	p.	. 54. Špá 1	A le				8 .a L	\$ }	新建 デ		過過		2.5/5
003			P.345	1.000	Sussectory	-		745011070103	2	80 5 51 - 2745	18-10-11-1	Maple Lot	1 West C	1.05/8021462	L KULL	1 9-107-14		11.200		6 U.							1.000	NO. 314	155241-114	4 94 1 M 1 M 1 M 1	HALL NO. 10			2.5/5
004	中的	-194	医疗		教授等			122	2	949 Q	<u>pre</u> r	關於均	Ster.			1	· (48)			[]]] 本 王 	- 1971, " 1			環境			755				W S	限计		2.5/5
005	C. C	10021572882		24 - E	8 4	1. 26. 27			2	21.01 77.88		32.12	2 6		1.1.1.1.1				N	. 18:35				28099	1 780358035	- 54% X				19.5. 10	1968-05		1000000	2.5/5
006	10,000	2.3		- *	1. 1.	7 <u>開</u> 日 7 一日 7 一日	733	نې . د سنې ۲	L B		, ž		> 24 -	4-8-1 -	- 9° 88- 4				5 / PR	[ P] ]	¥ ,		<u> </u>	44		12.94	1 P S	1.2	, iai.		Îλ.			2.5/5
007	$\geq$			. A 2m		647-11	- 100523-X	without .	. × 383			1.2	203.2	Sale C							5		<u> </u>	<u> </u>		- 100 S.				1			. 16.2	2.5/5
008	2.2	南海南								2.4	њî X.	编う	調査と				эх 4		· · · · ·		102	-	261	2.5		Refer of	َ <sub>ج</sub> لا	-	1.10	1. J. 4	Ś.	<u></u>		2.5/5
009	in Jahr	La ca NP	CRATINE	ana ticar	3044 V.14	-		17.4. 100		H. #	क्षेत्र .त	7 1.	FIDA								-				100.1	c belaster								2.5/5
f <b>010</b> i	電戰	244	A1248	1454				异阿勒	1130	₩ <sub>P</sub> z v		14 3	援援 izi	18 F.	î s s	<sup>g .t</sup>	, <u>7</u> ,8	т. Г	4	× *,			1489	<b>新</b> 湯	对静态	. 498.4	1 64	- I I	-6189	1971		観から	a Brow	2.5/5
011				Lin	1 <sup>24</sup> - 1	1426	105 agus.	Luch	13.2013485	100000.220	<u>}</u>	6	202000	anilesi		Jacobian (	-1 240840	105 104	20 - 10	12.		- 20.11	Science - Le	5.660.096		4.9.1	1. 100,000	4 100900	-	ೆ ಕ್ಷಮಿಸಿಕೆ, ನಡೆ ಎ	Pasce Hai	Salarita del	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2.5/5
012				· · ·		1	1. J.	291	7.5.6.6910 4.6.6.6910	ŧ.O	$\mathbb{P}$	$1^{\circ}$	/	þ.	-18,24	- Suck	- 6/	the white	1, F	61 ×	ļ	ι. Έ	28 C	2. 45		1.1.		3 ~~38~8 2 62	1. Jul	15.1	-Parates	and the second		2.5/5
013		12 MH.		citer of	186 7 1	9 INCAS	279268	10.712:288		A. 13		1.2.8	<u> </u>	15			-					an it <sup>st</sup>								8 1	1.40 ° 0		- KONANA IK	2.5/5
014	- j." (	4. A	49	1		2. W 1.	178g		十丁辙	L . P	2- }	alara I	arst ,	dané A	<u> </u>	2	3		, "	3		12	Ļ			ļ		10   *	, r	dud.		£	論語	2.5/5
015				4 -		1		7÷				1	8.5								112.		$\succ$					5		a			State and	2.5/5
016	h gh à	. (Ar)	1 • ***	伊汀山	撤任文	tájs, de	-2.65	i je Ag	、, 成就	<u>n</u> 州	а <sup>с</sup> д.	1.2.2		£82,	埠上。	<u>. eta</u>	. <u>.</u>	> ≈	*. v 2	ήz φ	14 A	des.k.	ip v	4.M	22.9			<u>' 2486</u>		扬的	* 1	hina.	light is	2.5/5
017	1210.445	. 6 S.B	sh est		Bran SJ.	1998. i.	U.S.K	540. JA		abhadik	a Miller and	al altrice		Julea.	Section :	1.00	2.68			80 30	ة تحلقا و	1 Malana	10 <sup>4</sup> 122.2.		- Fritz				L- Hed	11 IV CHE		Lass-	adatia -	2.5/5
018		<u> Sandina</u>	64. T. S.B.	<u> 7 19 2 1</u>		18VA	8.84		니에에	분합 관련	111	2 Brid	300-1	gar:	11 <b>1</b> 12 12 1	134	] 너 (()는	7.4-5	2.14	1.00	I MAR P	144	10.077	會要!	8 <u>19</u> 99	sa fa Sila	小野開		9.21			19014	1-1-2-	2.5/5
019	1000	建筑建	10 A	10000			-	(1. S. S. J.	- Tet -4463	327144	a a-gaine				EFF25.4	S.IS	1444	7 J.W	144	1 6	a piler i a	12.95	BAUX -		<b>F B T</b>	- 48¢	1-1-12	周末政	) 第 <sup>4</sup> 管		Belerije T.	Re Black	Cerey 2	2.5/5
.020	S. R. Za	百二王章	*****	242 1 2	16. P	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)				AN WA				viele i	Complex	r 1977	1 世友	1 - 3	ද හා කිට	1 L	<u> </u>	Tanl's	1 (B) 2		开程 医		. 3					- States		2.575
Excepti	ons to	preser	vation	спеск.	VOA,	, Com	iorm,	100,	TOX,	TOH,	U&G,	ט וייי	R0, P	nenoi	ics, Ot	n <u>er.</u>				-	Hea	adspa	ce in v	'UA VI	ais (>t	omm):	LIYe	s ⊔r		N/A	ni ye	IOOK	in hea	dspace column
AG1U	1 lite	er aml	ber gla	ass			BF	·10	1 lite	r plas	tic un	pres				Ve	9C	40 m	L clea	ar as	corbic	w/H0	CI	JG	FU	4 oz	ambe	riaru	Inpres			-	1	
BG1U	1 lite	er clea	ar glas	ss			BF	<b>3</b> U	250	mL pla	astici	Jnpre:	S			DC	9T	40 m	Lam	ber N	a Thi	ם ו		JG	9U	9 oz	ambe	rjaru	Inpres	5				
AG1H	1 lite	er aml	ber gla	ass H	CL	<b>.</b> .	BF	P3B	250	mL pla	astic I	VaOH				VG	9U	40 m	L cle	ar via	lunpr	es		W	GFU	4 oz	clear	jar un	pres					
AG4S	125	mL a	mber	glass	H2S0	24		23N	250 1	mL pla	astic I						i9H	40 m	L clea	ar via				WF	PFU	4 oz	plastic	o jar u	inpres					
AG5U	500	m∟a. mla	mper mber	giass olass	unpre H2S0	es D4	B	-35	2501	m∟pla m∣nl	astic I astic I	1250 Na∩H	4 + 7n				9M 19D	40 m 40 m	IL Clea	ar via ar via	ו MeC ו חו	н		SF	251 21 C	120 r	nL pla thao	astic I	va Th	losulfa	ate			
BG3U	250	mL cl	lear gl	lass u	npres	6	<u> </u>		5001	ne pi	13101	1001						10 11						G	N 1	210100	Juay							
			0																					G	N 2								Pa	ige $1$ of $\overline{\Delta}$

Sample Condition Upon Receipt Form (SCUR)

	Project #:
Client Name: PSI	LIO#: 40258010
Courier: Z CS Logistics T Fed Ex T Speedee T UPS	
Client Dece Other:	
Tracking #:	40258010
Custody Seal on Cooler/Box Present: Ves no Seals intac	st: 🔲 yes 🔲 no
Custody Seal on Samples Present: Lyes no Seals inta	t: 🔲 yes 🛄 no
Packing Material: 🔲 Bubble Wrap 🔲 Bubble Bags 💋 No	ne 🔲 Other
Thermometer Used <u>SR - </u> Type of Ice: We	Blue Dry None  Meltwater Only
Cooler Temperature Uncorr. 0.5 /Corr 1.5	Person examining contents:
Temp Blank Present: 🗍 yes 🕅 no Biological	Tissue is Frozen: ves no Date: ASJInitials:
Temp should be above freezing to 6°C. Biota Samples may be received at $\leq$ 0°C if shipped on Dry Ice.	Labeled By Initials: MUL
Chain of Custody Present:	A 1.
Chain of Custody Filled Out:	A 2.
Chain of Custody Relinquished:	A 3.
Sampler Name & Signature on COC	A 4.
Samples Arrived within Hold Time: □Yes □No	5.
- DI VOA Samples frozen upon receipt	Date/Time
Short Hold Time Analysis (<72hr):	6.
Rush Turn Around Time Requested:	7.
Sufficient Volume:	8.
For Analysis: 🖓 Yes 🗆 No 🛛 MS/MSD <sup>,</sup> 🗆 Yes 🖉 No 🗆 N/	A
Correct Containers Used: DYes DNo	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace	
Containers Intact:	10.
Filtered volume received for Dissolved tests	A 11.
Sample Labels match COC:	A 12.006 No dome
-Includes date/time/ID/Analysis Matrix:	2/5/2386
Trip Blank Present:	A 13.
Trip Blank Custody Seals Present	A
Pace Trip Blank Lot # (If purchased): /	
Client Notification/ Resolution: Person Contacted:Date Comments/ Resolution:	If checked, see attached form for additional comments

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login Page 2 of 2

.



## **Report of Analysis**

### Pace Analytical Services, LLC

1241 Bellevue Street Suite 9 Green Bay, WI 54302 Attention: Angela Lane

Project Name: 00542644-Walmart Project Number: 40258010 Lot Number:**YB10008** Date Completed:02/23/2023

Project Manager: Jenna S. Holliday

02/24/2023 7:29 AM Approved and released by: Project Manager II: **Edward Barnett** 





The electronic signature above is the equivalent of a handwritten signature. This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*) 106 Vantage Point Drive West Columbia, SC 29172 Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

### Case Narrative Pace Analytical Services, LLC Lot Number: YB10008

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

#### PFAS

Samples YB10008-001, YB10008-002 (DUP), YB10008-004 required centrifugation prior to extraction, due to excessive solids present in the samples. Centrifugation was performed following the PFAS Aqueous Centrifuge Protocol; samples were spiked with Surrogate (SUR; Extracted Internal Standard/EIS) and shaken vigorously before being poured into a conical bottle and centrifuged. The centrifuged aqueous sample was decanted back into the original sample bottle, off of the condensed solids remaining in the centrifuge bottle. Original sample bottle was rinsed as normal and centrifuge bottle was rinsed with 4mL of MeOH. Centrifuge bottle rinsate was added to the elution. Samples concentrated to <5mL and reconstituted to 5mL using MeOH by transfer pipet.

Surrogate recovery for the following samples was outside the upper control limit: YB10008-003, YB10008-005. The samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

### Sample Summary Pace Analytical Services, LLC Lot Number: YB10008 Project Name: 00542644-Walmart Project Number: 40258010

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	02/06/2023 1315	02/10/2023
002	MW-4	Aqueous	02/06/2023 1350	02/10/2023
003	MW-5	Aqueous	02/06/2023 1425	02/10/2023
004	MW-6	Aqueous	02/06/2023 1410	02/10/2023
005	MW-7	Aqueous	02/06/2023 1430	02/10/2023
006	FIELD BLANK	Aqueous	02/06/2023 1310	02/10/2023

(6 samples)

### Detection Summary

### Pace Analytical Services, LLC

Lot Number: YB10008

Project Name: 00542644-Walmart

Project Number: 40258010

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	PFBS	PFAS by ID	0.72	J	ng/L	6
001	MW-1	Aqueous	PFBA	PFAS by ID	4.6		ng/L	6
001	MW-1	Aqueous	PFHxA	PFAS by ID	1.4	J	ng/L	6
001	MW-1	Aqueous	PFPeA	PFAS by ID	1.6	J	ng/L	6
002	MW-4	Aqueous	EtFOSAA	PFAS by ID	19		ng/L	8
002	MW-4	Aqueous	MeFOSAA	PFAS by ID	66		ng/L	8
002	MW-4	Aqueous	PFBS	PFAS by ID	15		ng/L	8
002	MW-4	Aqueous	PFHpS	PFAS by ID	1.3	J	ng/L	8
002	MW-4	Aqueous	PFOSA	PFAS by ID	2.1	J	ng/L	8
002	MW-4	Aqueous	PFPeS	PFAS by ID	6.7		ng/L	8
002	MW-4	Aqueous	PFHxS	PFAS by ID	14		ng/L	8
002	MW-4	Aqueous	PFBA	PFAS by ID	17		ng/L	8
002	MW-4	Aqueous	PFHpA	PFAS by ID	11		ng/L	8
002	MW-4	Aqueous	PFHxA	PFAS by ID	28		ng/L	8
002	MW-4	Aqueous	PFOA	PFAS by ID	43		ng/L	8
002	MW-4	Aqueous	PFPeA	PFAS by ID	15		ng/L	8
002	MW-4	Aqueous	PFOS	PFAS by ID	40		ng/L	8
003	MW-5	Aqueous	EtFOSAA	PFAS by ID	4.1	J	ng/L	10
003	MW-5	Aqueous	MeFOSAA	PFAS by ID	8.6		ng/L	10
003	MW-5	Aqueous	PFBS	PFAS by ID	24		ng/L	10
003	MW-5	Aqueous	PFHpS	PFAS by ID	20		ng/L	10
003	MW-5	Aqueous	PFOSA	PFAS by ID	19		ng/L	10
003	MW-5	Aqueous	PFPeS	PFAS by ID	28		ng/L	10
003	MW-5	Aqueous	PFHxS	PFAS by ID	110		ng/L	10
003	MW-5	Aqueous	PFBA	PFAS by ID	15		ng/L	10
003	MW-5	Aqueous	PFDA	PFAS by ID	0.81	J	ng/L	10
003	MW-5	Aqueous	PFHpA	PFAS by ID	21		ng/L	10
003	MW-5	Aqueous	PFHxA	PFAS by ID	25		ng/L	10
003	MW-5	Aqueous	PFNA	PFAS by ID	4.1		ng/L	10
003	MW-5	Aqueous	PFOA	PFAS by ID	190	S	ng/L	10
003	MW-5	Aqueous	PFPeA	PFAS by ID	11		ng/L	10
003	MW-5	Aqueous	PFOS	PFAS by ID	930		ng/L	10
004	MW-6	Aqueous	PFBS	PFAS by ID	2.6	J	ng/L	12
004	MW-6	Aqueous	PFBA	PFAS by ID	5.8		ng/L	12
004	MW-6	Aqueous	PFHpA	PFAS by ID	1.1	J	ng/L	12
004	MW-6	Aqueous	PFHxA	PFAS by ID	2.4	J	ng/L	12
004	MW-6	Aqueous	PFOA	PFAS by ID	2.2	J	ng/L	12
004	MW-6	Aqueous	PFPeA	PFAS by ID	3.4	J	ng/L	12
005	MW-7	Aqueous	PFBS	PFAS by ID	28		ng/L	14
005	MW-7	Aqueous	PFHpS	PFAS by ID	9.3		ng/L	14
005	MW-7	Aqueous	PFPeS	PFAS by ID	21		ng/L	14
005	MW-7	Aqueous	PFHxS	PFAS by ID	55		ng/L	14
005	MW-7	Aqueous	PFBA	PFAS by ID	18		ng/L	14
		-					-	

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

### Detection Summary (Continued) Lot Number: YB10008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	MW-7	Aqueous	PFHpA	PFAS by ID	30		ng/L	14
005	MW-7	Aqueous	PFHxA	PFAS by ID	50		ng/L	14
005	MW-7	Aqueous	PFNA	PFAS by ID	2.0	J	ng/L	14
005	MW-7	Aqueous	PFOA	PFAS by ID	170		ng/L	14
005	MW-7	Aqueous	PFPeA	PFAS by ID	21		ng/L	14
005	MW-7	Aqueous	PFOS	PFAS by ID	270		ng/L	14
006	FIELD BLANK	Aqueous	PFPeA	PFAS by ID	0.71	J	ng/L	16

(50 detections)

Client: Pace Analytical Services, LLC				La	boratory Motr	ID: <b>YB10008-001</b>		
Description. MW-1	Ducient Neu				wau	IX. Aqueous		
Date Sampled: 02/06/2023 1315	Project Nai	me: 00542644-Walmart						
Date Received: 02/10/2023	Project Numl	per: 40258010						
RunPrep MethodAnalytical Method1SOP SPEPFAS by ID SOP	Dilution 1	Analysis Date Analyst 02/21/2023 1642 BWS	t <b>Prep</b> 02/10/2	<b>Date</b> 2023 1807	<b>Batch</b> 67285			
Parameter	CAS Numbe	S Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS	6) 756426-58-	1 PFAS by ID SOP	ND		7.0	0.42	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3	)763051-92-	9 PFAS by ID SOP	ND		7.0	0.58	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34	4 PFAS by ID SOP	ND		7.0	1.4	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97	2 PFAS by ID SOP	ND		7.0	1.8	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-	4 PFAS by ID SOP	ND		7.0	0.77	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13	6 PFAS by ID SOP	ND		7.0	1.8	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-	4 PFAS by ID SOP	ND		7.0	0.42	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-	2 PFAS by ID SOP	ND		7.0	1.2	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-	6 PFAS by ID SOP	ND		7.0	0.66	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-	2 PFAS by ID SOP	ND		7.0	0.84	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-	8 PFAS by ID SOP	ND		14	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-	9 PFAS by ID SOP	ND		7.0	0.82	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-	7 PFAS by ID SOP	ND		7.0	1.1	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-	5 PFAS by ID SOP	0.72 J	I	3.5	0.36	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-	3 PFAS by ID SOP	ND		3.5	0.68	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-	8 PFAS by ID SOP	ND		3.5	0.44	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-	1 PFAS by ID SOP	ND		3.5	0.63	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-	6 PFAS by ID SOP	ND		3.5	0.54	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-	4 PFAS by ID SOP	ND		3.5	0.52	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39	5 PFAS by ID SOP	ND		7.0	0.92	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-	4 PFAS by ID SOP	ND		3.5	0.48	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-	4 PFAS by ID SOP	4.6		3.5	0.53	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-	2 PFAS by ID SOP	ND		3.5	0.46	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-	1 PFAS by ID SOP	ND		3.5	0.41	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-	9 PFAS by ID SOP	ND		3.5	0.39	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-	4 PFAS by ID SOP	1.4 J	I	3.5	0.60	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-	1 PFAS by ID SOP	ND		3.5	0.41	na/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-	1 PFAS by ID SOP	ND		3.5	0.73	na/L	1
Perfluoro-n-pentanoic acid (PEPeA)	2706-90-	3 PFAS by ID SOP	1.6	1	3.5	0.48	na/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-	7 PEAS by ID SOP	ND		3.5	0.53	ng/l	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94	8 PFAS by ID SOP	ND		3.5	0.35	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-	8 PFAS by ID SOP	ND		3.5	0.55	na/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-	1 PFAS by ID SOP	ND		3.5	1.8	na/L	1
		· · · · · · · · · · · · · · · · · · ·				1.0	··· <b>3</b> , =	
Surrogate O %	Run 1 A	cceptance						
13C2 4:2ETS	102	25-150						
13C2 6:2ETS	96	25-150						
13C2 8-2FTS	93	25-150						
1302_0.2110 1302_PEDoA	81	25-150						
13C2_PFTeDA	71	25-150						
13C3 PEBS	95	25-150						
13C3 PEHXS	95	25-150						
13C3-HEPO-DA	92	25-150						
13C4 PEBA	76	25-150						
	10	20-100						
LOQ = Limit of Quantitation B = Detected in the method blank	E = Quantita	ation of compound exceeded the	calibration	range DI =	Detection I i	mit	Q = Surro	ogate failure
ND = Not detected at or above the DL N = Recovery is out of criteria	P = The RP	D between two GC columns exc	eeds 40%	J = E	stimated res	ult < LOQ and <u>&gt;</u> DL	L = LCS/I	_CSD failure
H = Out of holding time W = Reported on wet weight basi	s						S = MS/N	ISD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: Pace Analytical Service	es, LLC		Laboratory ID: YB10008-001	
Description: MW-1			Matrix: Aqueous	
Date Sampled:02/06/2023 1315	Project N	Name: 00542644-Walmart		
Date Received: 02/10/2023	Project Nu	mber: <b>40258010</b>		
Surrogate	Run 1 Q % Recovery	Acceptance Limits		
13C4_PFHpA	93	25-150		
13C5_PFHxA	95	25-150		
13C5_PFPeA	93	25-150		
13C6_PFDA	88	25-150		
13C7_PFUdA	85	25-150		
13C8_PFOA	96	25-150		
13C8_PFOS	89	25-150		
13C8_PFOSA	88	10-150		
13C9_PFNA	94	25-150		
d-EtFOSA	70	10-150		
d5-EtFOSAA	81	25-150		
d9-EtFOSE	77	10-150		
d-MeFOSA	72	10-150		
d3-MeFOSAA	86	25-150		

10-150

77

				0
ND = Not detected at or above the DL N =	= Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and $\geq$ DL	L = LCS/LCSD failure
H = Out of holding time W =	= Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

d7-MeFOSE

#### PFAS by LC/MS/MS Client: Pace Analytical Services, LLC Laboratory ID: YB10008-002 Description: MW-4 Matrix: Aqueous Date Sampled:02/06/2023 1350 Project Name: 00542644-Walmart Date Received: 02/10/2023 Project Number: 40258010 Run Prep Method Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch SOP SPE PFAS by ID SOP 02/21/2023 1655 BWS 02/10/2023 1807 67285 1 CAS Analytical Number MDL Result Q LOQ Units Run Parameter Method PFAS by ID SOP 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS) 756426-58-1 ND 7.6 0.46 ng/L 1 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)763051-92-9 PFAS by ID SOP ND 7.6 ng/L 1 0.63 1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS) 39108-34-4 PFAS by ID SOP ND 7.6 ng/L 1 1.5 ND 1H. 1H. 2H. 2H-perfluorooctane sulfonic acid (6:2 FTS) 27619-97-2 PFAS by ID SOP 7.6 ng/L 1 1.9 1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS) 757124-72-4 PFAS by ID SOP ND 7.6 0.83 ng/L 1 ND Hexafluoropropylene oxide dimer acid (GenX) 13252-13-6 PFAS by ID SOP 7.6 ng/L 1 2.0 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 919005-14-4 PFAS by ID SOP ND 0.46 7.6 ng/L 1 PFAS by ID SOP N-ethylperfluoro-1-octanesulfonamide (EtFOSA) ND ng/L 4151-50-2 7.6 1.3 1 N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) 2991-50-6 PFAS by ID SOP 19 7.6 0.71 ng/L 1 2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE) PFAS by ID SOP ND 7.6 0.91 1691-99-2 ng/L 1 N-methylperfluoro-1-octanesulfonamide (MeFOSA) 31506-32-8 PFAS by ID SOP ND 15 1.2 ng/L 1 N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) 2355-31-9 PFAS by ID SOP 66 7.6 0.89 ng/L 1 2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE) 24448-09-7 PFAS by ID SOP ND 7.6 1.2 ng/L 1 Perfluoro-1-butanesulfonic acid (PFBS) 375-73-5 PFAS by ID SOP 15 3.8 0.39 ng/L 1 Perfluoro-1-decanesulfonic acid (PFDS) 335-77-3 PFAS by ID SOP ND 3.8 0.74 ng/L 1 Perfluoro-1-heptanesulfonic acid (PFHpS) 375-92-8 PFAS by ID SOP 1.3 J 3.8 0.47 ng/L 1 Perfluoro-1-nonanesulfonic acid (PFNS) 68259-12-1 PFAS by ID SOP ND 3.8 ng/L 1 0.68 Perfluoro-1-octanesulfonamide (PFOSA) 754-91-6 PFAS by ID SOP 2.1 J 3.8 0.58 ng/L 1 Perfluoro-1-pentanesulfonic acid (PFPeS) 2706-91-4 PFAS by ID SOP 3.8 ng/L 6.7 0.57 1 Perfluorododecanesulfonic acid (PFDOS) 79780-39-5 PFAS by ID SOP ND 7.6 1.0 ng/L 1 Perfluorohexanesulfonic acid (PFHxS) 355-46-4 PFAS by ID SOP 14 3.8 ng/L 1 0.52 Perfluoro-n-butanoic acid (PFBA) 375-22-4 PFAS by ID SOP 17 3.8 ng/L 0.57 1 335-76-2 PFAS by ID SOP ND Perfluoro-n-decanoic acid (PFDA) 3.8 ng/L 1 0.50 307-55-1 PFAS by ID SOP ND Perfluoro-n-dodecanoic acid (PFDoA) 38 ng/L 0.45 1 PFAS by ID SOP Perfluoro-n-heptanoic acid (PFHpA) 375-85-9 11 3.8 ng/L 1 0.43 Perfluoro-n-hexanoic acid (PFHxA) 307-24-4 PFAS by ID SOP 28 3.8 0.65 ng/L 1 Perfluoro-n-nonanoic acid (PFNA) 375-95-1 PFAS by ID SOP ND 38 ng/L 1 0.44 PFAS by ID SOP Perfluoro-n-octanoic acid (PFOA) 335-67-1 43 3.8 ng/L 1 0.79 Perfluoro-n-pentanoic acid (PFPeA) 2706-90-3 PFAS by ID SOP 15 3.8 ng/L 1 0.52 Perfluoro-n-tetradecanoic acid (PFTeDA) 376-06-7 PFAS by ID SOP ND 3.8 ng/L 0.57 1 Perfluoro-n-tridecanoic acid (PFTrDA) 72629-94-8 PFAS by ID SOP ND 3.8 0.50 ng/L 1 Perfluoro-n-undecanoic acid (PFUdA) 2058-94-8 PFAS by ID SOP ND 3.8 0.60 ng/L 1 Perfluorooctanesulfonic acid (PFOS) 1763-23-1 PFAS by ID SOP 40 3.8 1.9 ng/L 1 Run 1 Acceptance Surrogate Q % Recovery Limits 13C2 4:2FTS 80 25-150 13C2 6:2FTS 75 25-150 77 13C2 8:2FTS 25-150 13C2 PFDoA 70 25-150 13C2\_PFTeDA 45 25-150 67 13C3 PFBS 25-150 68 13C3 PFHxS 25-150 13C3-HFPO-DA 64 25-150 13C4\_PFBA 53 25-150 LOQ = Limit of Quantitation E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure B = Detected in the method blank ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and > DL L = LCS/LCSD failure S = MS/MSD failure H = Out of holding time W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: Pace Analytical Service	es, LLC		Laboratory ID: YB10008-002	
Description: MW-4			Matrix: Aqueous	
Date Sampled:02/06/2023 1350	Project N	lame: 00542644-Walmart		
Date Received: 02/10/2023	Project Nu	mber: <b>40258010</b>		
Surrogate	Run 1 Q % Recovery	Acceptance Limits		
13C4_PFHpA	66	25-150		
13C5_PFHxA	67	25-150		
13C5_PFPeA	65	25-150		
13C6_PFDA	70	25-150		
13C7_PFUdA	69	25-150		
13C8_PFOA	69	25-150		
13C8_PFOS	65	25-150		
13C8_PFOSA	67	10-150		
13C9_PFNA	72	25-150		
d-EtFOSA	43	10-150		
d5-EtFOSAA	65	25-150		
d9-EtFOSE	62	10-150		
d-MeFOSA	44	10-150		
d3-MeFOSAA	67	25-150		

10-150

58

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and $\geq$ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

d7-MeFOSE

			•					
Client: Pace Analytical	Services, LLC				Laboratory I	D: YB10008-	003	
Description: <b>MW-5</b>					Matri	x: Aqueous		
Date Sampled:02/06/2023 1425		Proiect Nar	me: 00542644-Walma	rt				
Date Received: 02/10/2023	F	Project Numb	per: 40258010					
	· · · · · · · · ·							
Run Prep Method	Analytical Method	Dilution 1	Analysis Date Analy	st Prep D	ate Batch			
	PEAS by ID SOP	5 0	12/21/20231/21 BWG	02/10/20/	23 1807 67285			
2 30F 3FL	FFAS by ID SOF	5 0	12/22/2023 1427 DWC	02/10/202	23 1007 07203			
Parameter		CAS Number	S Analytical Method	Result Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1	-sulfonic acid (9CI-PF3ONS	6) 756426-58-	1 PFAS by ID SOP	ND	7.6	0.46	ng/L	1
11-chloroeicosafluoro-3-oxaundecan	e-1-sulfonic acid (11CI-PF3	)763051-92-	9 PFAS by ID SOP	ND	7.6	0.63	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulf	onic acid (8:2 FTS)	39108-34-	4 PFAS by ID SOP	ND	7.6	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfo	onic acid (6:2 FTS)	27619-97-	2 PFAS by ID SOP	ND	7.6	1.9	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfor	ic acid (4:2 FTS)	757124-72-	4 PFAS by ID SOP	ND Q	7.6	0.83	ng/L	1
Hexafluoropropylene oxide dimer aci	d (GenX)	13252-13-	6 PFAS by ID SOP	ND	7.6	2.0	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid	(ADONA)	919005-14-	4 PFAS by ID SOP	ND	7.6	0.46	ng/L	1
N-ethylperfluoro-1-octanesulfonamid	e (EtFOSA)	4151-50-2	2 PFAS by ID SOP	ND	7.6	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonan	nidoacetic acid (EtFOSAA)	2991-50-	6 PFAS by ID SOP	4.1 J	7.6	0.72	ng/L	1
2-N-ethylperfluoro-1-octanesulfonam	ido-ethanol (EtFOSE)	1691-99-2	2 PFAS by ID SOP	ND	7.6	0.91	ng/L	1
N-methylperfluoro-1-octanesulfonam	ide (MeFOSA)	31506-32-	8 PFAS by ID SOP	ND	15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfon	amidoacetic acid (MeFOS	AA) 2355-31-	9 PFAS by ID SOP	8.6	7.6	0.89	ng/L	1
2-N-methylperfluoro-1-octanesulfona	mido-ethanol (MeFOSE)	24448-09-	7 PFAS by ID SOP	ND	7.6	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (P	FBS)	375-73-	5 PFAS by ID SOP	24	3.8	0.40	ng/L	1
Perfluoro-1-decanesulfonic acid (PFI	DS)	335-77-3	3 PFAS by ID SOP	ND	3.8	0.74	ng/L	1
Perfluoro-1-heptanesulfonic acid (	PFHpS)	375-92-	8 PFAS by ID SOP	20	3.8	0.48	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFI	NS)	68259-12-	1 PFAS by ID SOP	ND	3.8	0.68	ng/L	1
Perfluoro-1-octanesulfonamide (Pl	FOSA)	754-91-	6 PFAS by ID SOP	19	3.8	0.59	ng/L	1
Perfluoro-1-pentanesulfonic acid (	PFPeS)	2706-91-4	4 PFAS by ID SOP	28	3.8	0.57	ng/L	1
Perfluorododecanesulfonic acid (PFD	OOS)	79780-39-	5 PFAS by ID SOP	ND	7.6	1.0	ng/L	1
Perfluorohexanesulfonic acid (PFF	IxS)	355-46-4	4 PFAS by ID SOP	110	3.8	0.53	ng/L	1
Perfluoro-n-butanoic acid (PFBA)		375-22-	4 PFAS by ID SOP	15	3.8	0.57	ng/L	1
Perfluoro-n-decanoic acid (PFDA)		335-76-2	2 PFAS by ID SOP	0.81 J	3.8	0.50	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA	)	307-55-	1 PFAS by ID SOP	ND	3.8	0.45	ng/L	1
Perfluoro-n-heptanoic acid (PFHp	A)	375-85-	9 PFAS by ID SOP	21	3.8	0.43	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA	)	307-24-	4 PFAS by ID SOP	25	3.8	0.66	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)		375-95-	1 PFAS by ID SOP	4.1	3.8	0.44	ng/L	1
Perfluoro-n-octanoic acid (PFOA)		335-67-	1 PFAS by ID SOP	190 S	3.8	0.79	ng/L	1
Perfluoro-n-pentanoic acid (PFPe	A)	2706-90-3	3 PFAS by ID SOP	11	3.8	0.52	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTe	:DA)	376-06-	7 PFAS by ID SOP	ND	3.8	0.57	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA	.)	72629-94-	8 PFAS by ID SOP	ND	3.8	0.51	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA	)	2058-94-	8 PFAS by ID SOP	ND	3.8	0.60	ng/L	1
Perfluorooctanesulfonic acid (PFC	S)	1763-23-	1 PFAS by ID SOP	930	19	9.6	ng/L	2
Surrogate	Q % F	Run 1 Ac Recovery	cceptance R Limits Q % R	un 2 Acce ecovery L	eptance imits			
13C2_4:2FTS	Ν	205	25-150	94	25-150			
13C2_6:2FTS		147	25-150	92	25-150			
13C2_8:2FTS		118	25-150	87 2	25-150			
13C2_PFDoA		89	25-150	78	25-150			
13C2_PFTeDA		82	25-150	80	25-150			

 LOQ = Limit of Quantitation
 B = Detected in the method blank
 E = Quantitation of compound exceeded the calibration range
 DL = Detection Limit
 Q = Surrogate failure

 ND = Not detected at or above the DL
 N = Recovery is out of criteria
 P = The RPD between two GC columns exceeds 40%
 J = Estimated result < LOQ and  $\geq$  DL
 L = LCS/LCSD failure

 H = Out of holding time
 W = Reported on wet weight basis
 S = MS/MSD failure
 S = MS/MSD failure

25-150

25-150

25-150

95

93

85

25-150

25-150

25-150

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

13C3\_PFBS

13C3\_PFHxS

13C3-HFPO-DA

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

94

96

91

Client: Pace Analytical Services, LLC	)
Description: MW-5	

Date Sampled:02/06/2023 1425

Date Received: 02/10/2023

### Project Name: 00542644-Walmart Project Number: 40258010

Laboratory ID: YB10008-003

Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C4_PFBA		45	25-150		77	25-150
13C4_PFHpA		100	25-150		94	25-150
13C5_PFHxA		95	25-150		96	25-150
13C5_PFPeA		82	25-150		92	25-150
13C6_PFDA		99	25-150		88	25-150
13C7_PFUdA		94	25-150		86	25-150
13C8_PFOA		103	25-150		95	25-150
13C8_PFOS		93	25-150		86	25-150
13C8_PFOSA		93	10-150		83	10-150
13C9_PFNA		99	25-150		93	25-150
d-EtFOSA		77	10-150		67	10-150
d5-EtFOSAA		93	25-150		78	25-150
d9-EtFOSE		90	10-150		80	10-150
d-MeFOSA		78	10-150		70	10-150
d3-MeFOSAA		99	25-150		82	25-150
d7-MeFOSE		89	10-150		74	10-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and $\geq$ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: Mive4 Data Sampion2 Societa 14 Jun 2010         Tenjest Names 1000000000000000000000000000000000000	Client: Pace Analytical Services, LLC				La	boratory	ID: YB10008-004		
Date Received 02/10/2023         Project Nume: 0642644/Vinter           Date Received 02/10/2023 1407         Analytical Methods         Ditto's Descent analytical Methods         Dists's Descent analytical Methods <thdists's analytical="" descent="" methods<="" th=""> <thdists's descent<="" th=""><th>Description: <b>MW-6</b></th><th></th><th></th><th></th><th></th><th>Matr</th><th>rix: <b>Aqueous</b></th><th></th><th></th></thdists's></thdists's>	Description: <b>MW-6</b>					Matr	rix: <b>Aqueous</b>		
Date Received: 02/10/2023         Project Number: 40258010           Run Prop Method 1         Operational Science	Date Sampled:02/06/2023 1410	Project Na	me: 00542644-Walmart						
Run         Prep Method 1         Analytical Method PFAS by ID SOP         Date 1         Date SUP SPE         Batch D2/1/02/023 1007 67265           Parameter         CAS 1         Analytical D2/1/02/023 1007 67265         Batch D2/1/02/023 1007 67265         Batch D2/1/02/023 1007 67265           Parameter         Number 1         Analytical Method Method D2/1/02/023 1007 67265         Mol 7.3         O.44         mpl N         Inst N           Chast 11         All pit-potterodocana suffice and (CEFTS)         2016/02/02         2016/02         0.41         mpl N         7.3         0.41         mpl N         7.3         0.41         mpl N         1           11         H1 H2 H2 stypefineocdana suffice add (CEFTS)         2016/02/12         2016/02         ND         7.3         0.61         mpl N         mpl N         1.3         mpl N         mpl N         1.3         mpl N         mpl N         1.4         mpl N         mpl N         mpl N         1.3         mpl N         mpl N         1.3         mpl N         1.3         mpl N         mpl N	Date Received: 02/10/2023	Project Num	ber: <b>40258010</b>						
KUN         Prop. Method: 1         OCI 1002         Prop. Name         Prop. Name         Distribution           1         DOI 1002         SIGUADE22         SIGUADE22 </th <th>Due Dree Mathed Analytical Mathe</th> <th>Dilution</th> <th>Analusia Data Analust</th> <th>Duon</th> <th>Data</th> <th>Datah</th> <th></th> <th></th> <th></th>	Due Dree Mathed Analytical Mathe	Dilution	Analusia Data Analust	Duon	Data	Datah			
Parameter         CAS Multipolity         Analytical Method         Result         Q         LOQ         MDL         Units         Run           9thoreme statembres 3-cummers - turifone and (IGCIPES)         35402-55.1         PFAS by ID SOP         ND         7.3         0.61         regil         1           11.11, 11.21, 21-perfluoroadecane subfonc and (IG 2 FTS)         35108-34.4         PFAS by ID SOP         ND         7.3         0.61         regil         1           11.11, 11.21, 21-perfluoroadecane subfonc and (IG 2 FTS)         7512427.24         PFAS by ID SOP         ND         7.3         0.80         regil         1           4.4-docus 31+perfluoroadecane subfonc and (IG 2 FTS)         7512427.24         PFAS by ID SOP         ND         7.3         0.80         regil         1           1.11, 11.21, 21-perfluoroadecane and (IG 2 FTS)         7512427.24         PFAS by ID SOP         ND         7.3         1.2         regil         1           4.4-docus 31+perfluoroadecane and (IG 2 FTS)         751947.2         PFAS by ID SOP         ND         7.3         1.2         regil         1           1.11, 12, 12, regil         1         Nethyperfluoro-1-octanesufformation (MFOSA)         2555-16         PFAS by ID SOP         ND         7.3         1.2         regil         1<	RunPrep methodAnalytical method1SOP SPEPFAS by ID SOI	P = 1	D2/21/2023 1746 BWS	02/10/2	Date 2023 1807	67285			
9-chtomberadesdaturo 3-oxanance sufforce 3-oxanace	Parameter	CA Numbe	S Analytical r Method	Result	Q	LOQ	MDL	Units	Run
11-chickededational-acutandecande 1-sulfanol add (1112/PT3., 758015422         PFA8 by 10 SOP         ND         7.3         0.61         ngl.         1           11.1.1.1.1.21.2.2-benefinocondecana sulfano add (2 FTS)         277191972         PFA8 by 10 SOP         ND         7.3         1.8         ngl.         1           11.1.1.1.1.21.2.2-benefinocondecana sulfano add (2 FTS)         277191972         PFA8 by 10 SOP         ND         7.3         0.44         ngl.         1           4.8-doxa-3H-penfinocondecana sulfanomide (ETCSA)         1352513-6         PFA8 by 10 SOP         ND         7.3         0.44         ngl.         1           4.8-doxa-3H-penfinocond-coatesulfanomide (ETCSA)         4151502         PFA8 by 10 SOP         ND         7.3         0.60         ngl.         1           Nettylpeffunor-1-octanesulfanomide (ETCSA)         4151502         PFA8 by 10 SOP         ND         7.3         0.60         ngl.         1           Nettylpeffunor-1-octanesulfanomide (ETCSA)         3156323         PFA8 by 10 SOP         ND         7.3         1.2         ngl.         1           Perfunor-1-dotanesulfanomide-ethand (MFASA)         3355773         PFA8 by 10 SOP         ND         7.3         1.2         ngl.         1           Perfunor-1-betanesulfanomide (ETCSA)         3357	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3O)	NS) 756426-58	-1 PFAS by ID SOP	ND		7.3	0.44	ng/L	1
11, H1, H2, H2, H2-perflucenciations sufficiencia and (2 E PTS)       30108-34.4       PFAS by 10 SOP       ND       7.3       1.5       npl.       1         11, H1, H2, H2, H2-perflucenciations and (2 ETS)       77124-72.4       PFAS by 10 SOP       ND       7.3       0.50       npl.       1         14, H1, H2, H2, H2-perflucenciations and (2 ETS)       77124-72.4       PFAS by 10 SOP       ND       7.3       0.50       npl.       1         44-adma3H2-perflucenciations and (ADOMA)       1900514.4       PFAS by 10 SOP       ND       7.3       0.40       npl.       1         N=athyperflucen-t-octanesulfonamide ethanol (EFOSA)       20150-0       PFAS by 10 SOP       ND       7.3       0.67       ngl.       1         2.N-athyperflucen-t-octanesulfonamidosceita ad (MEFOSA)       235531-0       PFAS by 10 SOP       ND       7.3       0.67       ngl.       1         2.N-athyperflucen-t-octanesulfonamidosceita ad (MEFOSA)       235531-0       PFAS by 10 SOP       ND       7.3       0.67       ngl.       1         2.N-athyperflucen-t-octanesulfonamidosceita ad (MEFOSA)       235537-0       PFAS by 10 SOP       ND       7.3       0.65       ngl.       1         2.N-athyperflucen-t-octanesulfonamidosceita ad (MEFOSA)       23567-0       PFAS by 10 SOP       ND	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF	3)763051 <b>-</b> 92	-9 PFAS by ID SOP	ND		7.3	0.61	ng/L	1
11, H1, H2, H2, H2, H2, H2, H4, H0, H0, H1, H2, H2, H2, H4, H2, H2, H2, H2, H2, H2, H2, H2, H2, H2	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34	-4 PFAS by ID SOP	ND		7.3	1.5	ng/L	1
11.11.21.21-perfunctonexal exait (GenX)       177124-724       PRAS by (D SOP       ND       7.3       0.40       ngl.       1         4.8-diaoxa-31-perfluctone-analic acid (GenX)       190054-1.44       PRAS by (D SOP       ND       7.3       0.44       ngl.       1         4.8-diaoxa-31-perfluctone-adamesulfonamide (EFOSA)       2910054-1.44       PRAS by (D SOP       ND       7.3       0.60       ngl.       1         2.N-othylperfluctor-1-octanesulfonamide (EFOSA)       29103-04       PRAS by (D SOP       ND       7.3       0.67       ngl.       1         2.N-othylperfluctor-1-octanesulfonamide (EFOSA)       3150-323       PRAS by (D SOP       ND       7.3       0.68       ngl.       1         2.N-onthylperfluctor-1-octanesulfonamide (MFOSA)       3150-323       PRAS by (D SOP       ND       7.3       0.85       ngl.       1         2.N-onthylperfluctor-1-octanesulfonamide (MFOSA)       3356-73       PRAS by (D SOP       ND       7.3       0.48       ngl.       1         Perfluctor-1-octanesulfonamide (MFOSA)       7564-24       PRAS by (D SOP       ND       3.7       0.66       ngl.       1         Perfluctor-1-octanesulfonamide (MFOSA)       7564-24       PRAS by (D SOP       ND       3.7       0.66       ngl. <t< td=""><td>1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)</td><td>27619-97</td><td>-2 PFAS by ID SOP</td><td>ND</td><td></td><td>7.3</td><td>1.8</td><td>ng/L</td><td>1</td></t<>	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97	-2 PFAS by ID SOP	ND		7.3	1.8	ng/L	1
Hexaftuaroproprisene oxide dimer acid (GenX)       13252-136       PFA8 by ID SOP       ND       7.3       1.9       ngL       1         A-divaca-H-pertuaroprononcina oxide (GDOXA)       19006-L44       PFA8 by ID SOP       ND       7.3       0.49       ngL       1         N-athyperfluoro-1-octanesulfonamido-ettina oti (EFFOSA)       1415:602       PFA8 by ID SOP       ND       7.3       0.89       ngL       1         N-methyperfluoro-1-octanesulfonamido-ettina oti (MEFOSA)       13506:328       PFA8 by ID SOP       ND       7.3       0.89       ngL       1         2-N-methyperfluoro-1-octanesulfonamido-ettina oti (MEFOSA)       2355:73-5       PFA8 by ID SOP       ND       7.3       0.28       ngL       1         Perfluoro-1-decanesulfonic acid (PFDS)       335:73-5       PFA8 by ID SOP       ND       3.7       0.36       ngL       1         Perfluoro-1-decanesulfonic acid (PFDS)       335:73-5       PFA8 by ID SOP       ND       3.7       0.46       ngL       1         Perfluoro-1-decanesulfonic acid (PFDS)       335:73-5       PFA8 by ID SOP       ND       3.7       0.46       ngL       1         Perfluoro-1-decanesulfonic acid (PFDS)       335:44       PFA8 by ID SOP       ND       3.7       0.46       ngL       1 <td>1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)</td> <td>757124-72</td> <td>-4 PFAS by ID SOP</td> <td>ND</td> <td></td> <td>7.3</td> <td>0.80</td> <td>ng/L</td> <td>1</td>	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72	-4 PFAS by ID SOP	ND		7.3	0.80	ng/L	1
4.8-dos.3-54-perfluctoronancia caid (ADOM)       91900.5-144       PFAS by ID SOP       ND       7.3       0.44       ngl.       1         N-ethylperfluctor-1-octanesulfonamidoscetic acid (EIFOSA)       2911.502       PFAS by ID SOP       ND       7.3       0.69       ngl.       1         N-methylperfluctor-1-octanesulfonamidoscetic acid (EIFOSA)       1505.022       PFAS by ID SOP       ND       15       12       ngl.       1         N-methylperfluctor-1-octanesulfonamidoscetic acid (EIFOSA)       2355.31-9       PFAS by ID SOP       ND       7.3       0.89       ngl.       1         N-methylperfluctor-1-octanesulfonamidoscetic acid (MFOS)       2355.73-5       PFAS by ID SOP       ND       7.3       0.80       ngl.       1         Perfluctor-1-butanesulfonic acid (PFBS)       375.73-5       PFAS by ID SOP       ND       3.7       0.71       ngl.       1         Perfluctor-1-octanesulfonic acid (PFBS)       375.73-5       PFAS by ID SOP       ND       3.7       0.74       ngl.       1         Perfluctor-1-octanesulfonic acid (PFDS)       375.44       PFAS by ID SOP       ND       3.7       0.64       ngl.       1         Perfluctor-1-octanesulfonamid (PFDS)       376.44       PFAS by ID SOP       ND       3.7       0.54       n	Hexafluoropropylene oxide dimer acid (GenX)	13252-13	-6 PFAS by ID SOP	ND		7.3	1.9	ng/L	1
Nethyperfunct-1-octanesulfonamido (EFOSA)         4151-692         PFAS by ID SOP         ND         7.3         1.2         nptL         1           2-N-ethyperfunct-1-octanesulfonamido-ethanol (EFOSA)         2961-662         1691-692         PFAS by ID SOP         ND         7.3         0.69         nptL         1           N-methyperfunct-1-octanesulfonamido-ethanol (MeFOSA)         3150-324         PFAS by ID SOP         ND         7.3         0.87         nptL         1           N-methyperfunct-1-octanesulfonamido-ethanol (MeFOSA)         3355-314         PFAS by ID SOP         ND         7.3         0.87         nptL         1           2-N-methyperfunct-1-octanesulfonamido-ethanol (MeFOSA)         3357-73         PFAS by ID SOP         ND         3.7         0.48         nptL         1           Perfunct-1-octanesulfonic acid (PFBS)         6329-121         PFAS by ID SOP         ND         3.7         0.66         nptL         1           Perfunct-1-octanesulfonic acid (PFNS)         6329-121         PFAS by ID SOP         ND         3.7         0.66         nptL         1           Perfunct-1-octanesulfonic acid (PFNS)         7740-43         PFAS by ID SOP         ND         3.7         0.66         nptL         1           Perfunct-1-octanesulfonic acid (PFNS)	4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14	-4 PFAS by ID SOP	ND		7.3	0.44	ng/L	1
Nethyperfunct-1-cotanesulfonamidacebia adl (EFOSA)         2991-90.6         PFAS by 10 SOP         ND         7.3         0.69         ngl.         1           N-methylparflucto-1-cotanesulfonamidacebia adl (MeFOSA)         31506-32.8         PFAS by 10 SOP         ND         7.3         0.69         ngl.         1           N-methylparflucto-1-cotanesulfonamida-ethanol (MeFOSA)         2355-31.8         PFAS by 10 SOP         ND         7.3         0.65         ngl.         1           N-methylparflucto-1-cotanesulfoniamida-ethanol (MeFOSA)         2355-31.8         PFAS by 10 SOP         ND         7.3         0.85         ngl.         1           Perfutoro-1-baceanesulfonia add (PFBS)         375-73.5         PFAS by 10 SOP         ND         3.7         0.46         ngl.         1           Perfutoro-1-baceanesulfonia add (PFPS)         375-92.8         PFAS by 10 SOP         ND         3.7         0.65         ngl.         1           Perfutoro-1-baceanesulfonia add (PFPOS)         79780-39.5         PFAS by 10 SOP         ND         3.7         0.64         ngl.         1           Perfutoro-1-baceanesulfonia add (PFPOS)         375-82.4         PFAS by 10 SOP         ND         3.7         0.64         ngl.         1           Perfutoro-n-baceanesulfonia add (PFDA)	N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50	2 PFAS by ID SOP	ND		7.3	1.2	ng/L	1
2-N-ethylperfuoro-1-octanesulfonamido (MeFOSE)       1691-992       PFAS by ID SOP       ND       7.3       0.87       ngl.       1         N-methylperfuoro-1-octanesulfonamido (MeFOSA)       2585-31.8       PFAS by ID SOP       ND       7.3       0.87       ngl.       1         2-N-methylperfuoro-1-octanesulfonamido-ethane	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-	6 PFAS by ID SOP	ND		7.3	0.69	ng/L	1
N-methylgerfuoro-1-octanesulfonamido (MeFOSA)         31505-32.9         PFAS by ID SOP         ND         15         1.2         ngL         1           N-methylgerfuoro-1-octanesulfonamido-ethani (MeFOSA)         2365-13         PFAS by ID SOP         ND         7.3         0.25         ngL         1           Perfuoro-1-betanesulfonamido-ethani (MeFOSE)         23448-07         PFAS by ID SOP         ND         3.7         0.36         ngL         1           Perfuoro-1-betanesulfonamido-ethani (MeFOSE)         3375-73         PFAS by ID SOP         ND         3.7         0.46         ngL         1           Perfuoro-1-betanesulfonamid (PFDS)         375-73         PFAS by ID SOP         ND         3.7         0.65         ngL         1           Perfuoro-1-betanesulfonic add (PFDS)         756-91         PFAS by ID SOP         ND         3.7         0.65         ngL         1           Perfuoro-1-betanesulfonic add (PFDS)         776-93-5         PFAS by ID SOP         ND         3.7         0.64         ngL         1           Perfuoro-n-betanesulfonic add (PFDA)         375-62         PFAS by ID SOP         ND         3.7         0.43         ngL         1           Perfuoro-n-betanesulfonic add (PFDA)         375-62         PFAS by ID SOP         ND	2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-	2 PFAS by ID SOP	ND		7.3	0.87	ng/L	1
N-methylperfutoro-1-octanesulfonamido.ethanol (MeFOSA)       2355-310       PFAS by ID SOP       ND       7.3       0.85       ngl.       1         2-N-methylperfutoro-1-octanesulfonaeulfonamido.ethanol (MeFOSE)       24448-097       PFAS by ID SOP       ND       7.3       0.85       ngl.       1         Perfutoro-1-obtanesulfonic acid (PFNS)       33577.3       PFAS by ID SOP       ND       3.7       0.65       ngl.       1         Perfutoro-1-octanesulfonic acid (PFNS)       68259-12.1       PFAS by ID SOP       ND       3.7       0.65       ngl.       1         Perfutoro-1-octanesulfonic acid (PFNS)       68259-12.1       PFAS by ID SOP       ND       3.7       0.56       ngl.       1         Perfutoro-1-octanesulfonic acid (PFNS)       55-64       PFAS by ID SOP       ND       3.7       0.56       ngl.       1         Perfutoro-1-octanesulfonic acid (PFNS)       355-64       PFAS by ID SOP       ND       3.7       0.56       ngl.       1         Perfutoro-1-octanesulfonic acid (PFDA)       335-76-1       PFAS by ID SOP       ND       3.7       0.43       ngl.       1         Perfutoro-n-terdeanoic acid (PFDA)       375-64       PFAS by ID SOP       ND       3.7       0.43       ngl.       1	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32	-8 PFAS by ID SOP	ND		15	1.2	ng/L	1
2-N-methylperfluoro-1-octanesulfonamid- etalkop (MEFOSE)       24446-09.7       PFAS by ID SOP       ND       7.3       1.2       ngL       1         Perfluoro-1-denaesulfonic acid (PFBS)       375-73       PFAS by ID SOP       ND       3.7       0.46       ngL       1         Perfluoro-1-denaesulfonic acid (PFBS)       85259-12:1       PFAS by ID SOP       ND       3.7       0.65       ngL       1         Perfluoro-1-octanesulfonic acid (PFDS)       86259-12:1       PFAS by ID SOP       ND       3.7       0.56       ngL       1         Perfluoro-1-octanesulfonic acid (PFDS)       7266-81       PFAS by ID SOP       ND       3.7       0.56       ngL       1         Perfluoro-1-octanesulfonic acid (PFDS)       7276-81       PFAS by ID SOP       ND       3.7       0.51       ngL       1         Perfluoro-1-octanesulfonic acid (PFDS)       375-62       PFAS by ID SOP       ND       3.7       0.43       ngL       1         Perfluoro-n-brance acid (PFIA)       375-62       PFAS by ID SOP       ND       3.7       0.43       ngL       1         Perfluoro-n-tradecanoic acid (PFIA)       375-62       PFAS by ID SOP       ND       3.7       0.43       ngL       1         Perfluoro-n-tradecanoic acid (PFIA)	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA	) 2355-31-	9 PFAS by ID SOP	ND		7.3	0.85	ng/L	1
Perfusion-1-decanesuifionic acid (PFDS)         377-34         PFAS by ID SOP         2.6 J         3.7         0.38         ng/L         1           Perfusion-1-decanesuifionic acid (PFDS)         335-77.3         PFAS by ID SOP         ND         3.7         0.71         ng/L         1           Perfusion-1-decanesuifionic acid (PFHS)         68259-12-1         PFAS by ID SOP         ND         3.7         0.65         ng/L         1           Perfusion-1-decanesuifionic acid (PFPS)         754-91-8         PFAS by ID SOP         ND         3.7         0.65         ng/L         1           Perfusion-1-decanesuifionic acid (PFDS)         754-91-8         PFAS by ID SOP         ND         3.7         0.56         ng/L         1           Perfusion-bassuifionic acid (PFDS)         5754-12         PFAS by ID SOP         ND         7.7         0.64         ng/L         1           Perfusion-bassuifionic acid (PFDA)         357-62         PFAS by ID SOP         ND         3.7         0.63         ng/L         1           Perfusion-heptancia acid (PFDA)         357-62         PFAS by ID SOP         ND         3.7         0.43         ng/L         1           Perfusion-heptancia acid (PFDA)         375-951         PFAS by ID SOP         ND         3.7	2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09	-7 PFAS by ID SOP	ND		7.3	1.2	ng/L	1
Perfluoro-1-decanesuifonic acid (PFDS)       335-77-3       PFAS by ID SOP       ND       3.7       0.71       ng/L       1         Perfluoro-1-heptanesuifonic acid (PFNS)       375-92.8       PFAS by ID SOP       ND       3.7       0.46       ng/L       1         Perfluoro-1-octanesuifonic acid (PFNS)       2552-12-1       PFAS by ID SOP       ND       3.7       0.56       ng/L       1         Perfluoro-1-octanesuifonic acid (PFDS)       2706-914       PFAS by ID SOP       ND       3.7       0.56       ng/L       1         Perfluoro-1-octanesuifonic acid (PFDS)       2706-914       PFAS by ID SOP       ND       3.7       0.56       ng/L       1         Perfluoro-acidenaesuifonic acid (PFDA)       355-64       PFAS by ID SOP       ND       3.7       0.56       ng/L       1         Perfluoro-acidenaesuifonic acid (PFDA)       357-62       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-acidenaesuifonic acid (PFDA)       375-85-1       PFAS by ID SOP       ND       3.7       0.43       ng/L       1         Perfluoro-acidenaesuifonic acid (PFDA)       375-85-1       PFAS by ID SOP       ND       3.7       0.43       ng/L       1         Perfluoro-acidenaesuifonic a	Perfluoro-1-butanesulfonic acid (PFBS)	375-73-	5 PFAS by ID SOP	2.6 J		3.7	0.38	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFHpS)       375-92-8       PFAS by ID SOP       ND       3.7       0.46       ng/L       1         Perfluoro-1-nonanesulfonic acid (PFNS)       682591-21       PFAS by ID SOP       ND       3.7       0.66       ng/L       1         Perfluoro-1-opentanesulfonic acid (PFDS)       2766-91-4       PFAS by ID SOP       ND       7.3       0.96       ng/L       1         Perfluoro-1-pentanesulfonic acid (PFDS)       355-464       PFAS by ID SOP       ND       7.3       0.96       ng/L       1         Perfluoro-n-betanoic acid (PFDA)       355-464       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-decanoic acid (PFDA)       355-764       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-decanoic acid (PFDA)       357-52       PFAS by ID SOP       ND       3.7       0.43       ng/L       1         Perfluoro-n-nonancic acid (PFDA)       375-52       PFAS by ID SOP       ND       3.7       0.43       ng/L       1         Perfluoro-n-nonancic acid (PFDA)       375-951       PFAS by ID SOP       1.1       3.7       0.42       ng/L       1         Perfluoro-n-pentanoic acid (PFPA)       336-71 </td <td>Perfluoro-1-decanesulfonic acid (PFDS)</td> <td>335-77-</td> <td>3 PFAS by ID SOP</td> <td>ND</td> <td></td> <td>3.7</td> <td>0.71</td> <td>ng/L</td> <td>1</td>	Perfluoro-1-decanesulfonic acid (PFDS)	335-77-	3 PFAS by ID SOP	ND		3.7	0.71	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)       68259-12.1       PFAS by ID SOP       ND       3.7       0.65       ng/L       1         Perfluoro-1-otanesulfonic acid (PFDGS)       754-91-8       PFAS by ID SOP       ND       3.7       0.56       ng/L       1         Perfluoro-1-otanesulfonic acid (PFDOS)       7270-914       PFAS by ID SOP       ND       3.7       0.56       ng/L       1         Perfluoro-1-otanesulfonic acid (PFDOS)       79780-39-5       PFAS by ID SOP       ND       3.7       0.51       ng/L       1         Perfluoro-n-decanoic acid (PFDA)       355-76-2       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-decanoic acid (PFDA)       307-55-1       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-texanoic acid (PFNA)       307-54-4       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-texanoic acid (PFNA)       375-58-1       PFAS by ID SOP       ND       3.7       0.43       ng/L       1         Perfluoro-n-texanoic acid (PFNA)       375-68-1       PFAS by ID SOP       ND       3.7       0.63       ng/L       1         Perfluoro-n-texanoic acid (PFNA)       376-	Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-	8 PFAS by ID SOP	ND		3.7	0.46	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)         754-91-6         PFAS by ID SOP         ND         3.7         0.56         ng/L         1           Perfluoro-1-pentanesulfonic acid (PFPOS)         2706-91-4         PFAS by ID SOP         ND         3.7         0.54         ng/L         1           Perfluoro-1-pentanesulfonic acid (PFPOS)         79780-39-5         PFAS by ID SOP         ND         3.7         0.54         ng/L         1           Perfluoro-t-butanoic acid (PFPAS)         355-46-4         PFAS by ID SOP         ND         3.7         0.55         ng/L         1           Perfluoro-n-butanoic acid (PFDA)         357-62         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-decanoic acid (PFDA)         307-551         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-decanoic acid (PFDA)         307-551         PFAS by ID SOP         ND         3.7         0.43         ng/L         1           Perfluoro-n-toctanoic acid (PFHA)         375-951         PFAS by ID SOP         ND         3.7         0.43         ng/L         1           Perfluoro-n-tradecanoic acid (PFDA)         375-957         PFAS by ID SOP         ND         3.7         0.6	Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12	-1 PFAS by ID SOP	ND		3.7	0.65	ng/L	1
Perfluoro-1-pentanesulfonic add (PFPeS)         2706-914         PFAS by ID SOP         ND         3.7         0.54         ng/L         1           Perfluoro-decanesulfonic add (PFDOS)         355-46-4         PFAS by ID SOP         ND         7.3         0.96         ng/L         1           Perfluoro-butanic add (PFBA)         355-46-4         PFAS by ID SOP         ND         3.7         0.51         ng/L         1           Perfluoro-n-decanoic add (PFDA)         357-62-4         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-decanoic add (PFDA)         307-55-1         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-decanoic add (PFDA)         307-55-1         PFAS by ID SOP         ND         3.7         0.43         ng/L         1           Perfluoro-n-decanoic add (PFHA)         375-95-1         PFAS by ID SOP         2.4         3.7         0.63         ng/L         1           Perfluoro-n-decanoic add (PFHA)         375-95-1         PFAS by ID SOP         3.7         0.76         ng/L         1           Perfluoro-n-decanoic add (PFHA)         376-0-6-7         PFAS by ID SOP         ND         3.7         0.50         ng/L <td< td=""><td>Perfluoro-1-octanesulfonamide (PFOSA)</td><td>754-91</td><td>6 PFAS by ID SOP</td><td>ND</td><td></td><td>3.7</td><td>0.56</td><td>na/L</td><td>1</td></td<>	Perfluoro-1-octanesulfonamide (PFOSA)	754-91	6 PFAS by ID SOP	ND		3.7	0.56	na/L	1
Annote L partition of partition of the partitis partition of the partition of the partition of the par	Perfluoro-1-pentanesulfonic acid (PEPeS)	2706-91	4 PEAS by ID SOP	ND		37	0.54	ng/l	1
Annotabel Statistication and (PFHxS)         Notable Statistication         Number Statistication         Num Num Number Statistication         Number Sta	Perfluorododecanesulfonic acid (PEDOS)	79780-39	-5 PEAS by ID SOP	ND		7.3	0.96	ng/L	1
Termsonschartonschultung und (TTRG)         Boords         TrRG (D, B)         Boords         Boords         Boords	Perfluorobexanesulfonic acid (PEHxS)	355-46	4 PEAS by ID SOP			3.7	0.50	ng/L	1
PertInucon-decanoic acid (PFDA)         337-52-2         PFAS by ID SOP         ND         3.7         0.43         ng/L         1           PerfInucro-n-decanoic acid (PFDA)         307-55-1         PFAS by ID SOP         ND         3.7         0.43         ng/L         1           PerfInucro-n-decanoic acid (PFDA)         307-55-1         PFAS by ID SOP         ND         3.7         0.43         ng/L         1           PerfInucro-n-hoptanoic acid (PFHA)         307-55-1         PFAS by ID SOP         2.4         J         3.7         0.63         ng/L         1           PerfInucro-n-nonanoic acid (PFHA)         307-54-1         PFAS by ID SOP         2.4         J         3.7         0.63         ng/L         1           PerfInucro-n-nonanoic acid (PFHA)         375-95-1         PFAS by ID SOP         ND         3.7         0.42         ng/L         1           PerfInucro-n-pontanoic acid (PFA)         335-67-1         PFAS by ID SOP         ND         3.7         0.46         ng/L         1           PerfInucro-n-tridecanoic acid (PFTDA)         72629-94-8         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           PerfInucro-n-tridecanoic acid (PFTDA)         72629-94-8         PFAS by ID SOP         ND	Porfluoro n hutanois acid (PERA)	375 22		59		3.7	0.51	ng/L	1
Control Hockmitson (PEDA)         Stor For Limits by ID SOP         ND         3.7         0.43         ng/L         1           Perfluoro-n-heptanoic acid (PFHpA)         375-85-9         PFAS by ID SOP         ND         3.7         0.43         ng/L         1           Perfluoro-n-heptanoic acid (PFHA)         307-24-4         PFAS by ID SOP         2.4         J         3.7         0.63         ng/L         1           Perfluoro-n-heptanoic acid (PFHA)         375-95-1         PFAS by ID SOP         2.4         J         3.7         0.42         ng/L         1           Perfluoro-n-netanoic acid (PFNA)         375-95-1         PFAS by ID SOP         ND         3.7         0.42         ng/L         1           Perfluoro-n-etanoic acid (PFPA)         2706-90-3         PFAS by ID SOP         3.4         J         3.7         0.50         ng/L         1           Perfluoro-n-tetradecanoic acid (PFTDA)         72629-94-8         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-tetradecanoic acid (PFLdA)         2058-94-8         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-tetradecanoic acid (PFOS)         1763-23-1         PFAS by ID SOP         ND </td <td>Perfluoro-n-decanoic acid (PEDA)</td> <td>335-76</td> <td>2 PEAS by ID SOP</td> <td>5.0 ND</td> <td></td> <td>3.7</td> <td>0.55</td> <td>ng/L</td> <td>1</td>	Perfluoro-n-decanoic acid (PEDA)	335-76	2 PEAS by ID SOP	5.0 ND		3.7	0.55	ng/L	1
Perfluoro-n-heptanoic acid (PFHzA)       307607       Fir AS 07 1007       1,D       3.7       0,43       ng/L       1         Perfluoro-n-heptanoic acid (PFHzA)       375859       PFAS by ID SOP       1,1       3.7       0,63       ng/L       1         Perfluoro-n-hexanoic acid (PFHzA)       307244       PFAS by ID SOP       ND       3.7       0,42       ng/L       1         Perfluoro-n-nonanoic acid (PFHzA)       307244       PFAS by ID SOP       ND       3.7       0,42       ng/L       1         Perfluoro-n-octanoic acid (PFDA)       33567-1       PFAS by ID SOP       ND       3.7       0,42       ng/L       1         Perfluoro-n-pentanoic acid (PFDA)       33567-1       PFAS by ID SOP       ND       3.7       0,50       ng/L       1         Perfluoro-n-undecanoic acid (PFTEDA)       376-067       PFAS by ID SOP       ND       3.7       0,48       ng/L       1         Perfluoro-n-undecanoic acid (PFUdA)       2058-94-8       PFAS by ID SOP       ND       3.7       0.57       ng/L       1         Perfluoro-n-undecanoic acid (PFOS)       1763-23-1       PFAS by ID SOP       ND       3.7       1.8       ng/L       1         1022_e107       Q       Run 1       Acceptanc	Perfluere n dedecancie acid (PEDA)	307 55				3.7	0.40	ng/L	1
Perfluoro-n-inegration: acid (PFNA)       375-35-7       PFAS by ID SOP       1.1 J       3.7       0.41       ng/L       1         Perfluoro-n-inexanoic acid (PFNA)       375-95-1       PFAS by ID SOP       2.4 J       3.7       0.63       ng/L       1         Perfluoro-n-nonancic acid (PFOA)       335-67-1       PFAS by ID SOP       2.2 J       3.7       0.76       ng/L       1         Perfluoro-n-pentanoic acid (PFPA)       2706-90-3       PFAS by ID SOP       3.4 J       3.7       0.50       ng/L       1         Perfluoro-n-tridecanoic acid (PFTeDA)       376-06-7       PFAS by ID SOP       ND       3.7       0.55       ng/L       1         Perfluoro-n-tridecanoic acid (PFTDA)       72629-94-8       PFAS by ID SOP       ND       3.7       0.55       ng/L       1         Perfluoro-n-undecanoic acid (PFTDA)       72629-94-8       PFAS by ID SOP       ND       3.7       0.57       ng/L       1         Perfluoro-n-undecanoic acid (PFOS)       1763-23-1       PFAS by ID SOP       ND       3.7       1.8       ng/L       1         Surrogate       Q       Run 1       Acceptance       Limits       1       1       1       1       1         1302_4:2FTS       52 <td< td=""><td>Perfuere a bentancia soid (PEUsA)</td><td>375 95</td><td></td><td>11</td><td></td><td>3.7</td><td>0.43</td><td>ng/L</td><td>4</td></td<>	Perfuere a bentancia soid (PEUsA)	375 95		11		3.7	0.43	ng/L	4
Perfluoro-n-nonanoic acid (PFNA)         307-24-a         PFAS by ID SOP         24-a         3.7         0.63         Ing/L         1           Perfluoro-n-onanoic acid (PFNA)         375-95-1         PFAS by ID SOP         ND         3.7         0.76         ng/L         1           Perfluoro-n-otanoic acid (PFOA)         335-67-1         PFAS by ID SOP         2.2         J         3.7         0.76         ng/L         1           Perfluoro-n-otanoic acid (PFTeA)         2706-90-3         PFAS by ID SOP         ND         3.7         0.50         ng/L         1           Perfluoro-n-tetradecanoic acid (PFTeDA)         376-06-7         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-undecanoic acid (PFTDA)         72629-94-8         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-undecanoic acid (PFUdA)         2058-94-8         PFAS by ID SOP         ND         3.7         0.57         ng/L         1           Surrogate         Q         % Recovery         Limits         1         1         1           1302_4-5FTS         65         25-150         1         1         1         1           1302_PFDA <td< td=""><td></td><td>207.24</td><td></td><td>24</td><td></td><td>3.7</td><td>0.41</td><td>ng/L</td><td>4</td></td<>		207.24		24		3.7	0.41	ng/L	4
Perfluoro-n-nonanic acid (PFNA)       37595-1       PFAS by ID SOP       NU       3.7       0.42       ng/L       1         Perfluoro-n-octanic acid (PFOA)       335-67-1       PFAS by ID SOP       3.4       3.7       0.56       ng/L       1         Perfluoro-n-etriadecanoic acid (PFTA)       376-06-7       PFAS by ID SOP       ND       3.7       0.55       ng/L       1         Perfluoro-n-triadecanoic acid (PFTDA)       72629-94-8       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-undecanoic acid (PFTDA)       72629-94-8       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-undecanoic acid (PFUA)       2058-94-8       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-undecanoic acid (PFUA)       2058-94-8       PFAS by ID SOP       ND       3.7       1.8       ng/L       1         1302_6:2FTS       55       25-150       1332_6:2FTS       62       25-150       1322_9:2FTS       62       25-150       1322_9:2FTS       62       25-150       1323_9FB3       62       25-150       1323_9FB4       1       2       2       2       2       2       1       2		307-24		2.4 J		3.7	0.63	ng/L	1
Perfluoro-n-octanoic acid (PFOA)       335-67-1       PFAS by ID SOP       2.2       3.7       0.76       ng/L       1         Perfluoro-n-pentanoic acid (PFTeA)       2706-90-3       PFAS by ID SOP       ND       3.7       0.50       ng/L       1         Perfluoro-n-tridecanoic acid (PFTeDA)       376-06-7       PFAS by ID SOP       ND       3.7       0.55       ng/L       1         Perfluoro-n-tridecanoic acid (PFTDA)       72629-94-8       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-undecanoic acid (PFTDA)       2058-94-8       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-undecanoic acid (PFTOA)       2058-94-8       PFAS by ID SOP       ND       3.7       0.57       ng/L       1         Perfluoro-n-undecanoic acid (PFOS)       1763-23-1       PFAS by ID SOP       ND       3.7       0.57       ng/L       1         Surrogate       Q       Run 1       Acceptance Limits		375-95-	A PEAS by ID SOP	ND		3.7	0.42	ng/L	1
Perfluoro-n-petranoic acid (PFPEA)         2706-90.3         PFAS by ID SOP         3.4 J         3.7         0.50         ng/L         1           Perfluoro-n-tetradecanoic acid (PFTeDA)         376-06-7         PFAS by ID SOP         ND         3.7         0.55         ng/L         1           Perfluoro-n-tetradecanoic acid (PFTDA)         72629-94-8         PFAS by ID SOP         ND         3.7         0.55         ng/L         1           Perfluoro-n-undecanoic acid (PFTDA)         72629-94-8         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-undecanoic acid (PFTOA)         2058-94-8         PFAS by ID SOP         ND         3.7         0.57         ng/L         1           Perfluoro-n-undecanoic acid (PFOS)         1763-23-1         PFAS by ID SOP         ND         3.7         1.8         ng/L         1           Surrogate         Q         % Recovery         Limits         1         1         1         1           13C2_6:2FTS         65         25-150         13C3_PFDA         55         25-150         1         1         1         1           13C3_PFBS         62         25-150         13C3_PFHX         62         25-150         1         2	Perfluoro-n-octanoic acid (PFOA)	335-67-	1 PFAS by ID SOP	2.2 J		3.7	0.76	ng/L	1
Perfluoro-n-tetradecanoic acid (PF rEDA)         376-06-7         PAS by ID SOP         ND         3.7         0.55         ng/L         1           Perfluoro-n-tridecanoic acid (PF rDA)         72629-94-8         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-undecanoic acid (PFUdA)         2058-94-8         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Perfluoro-n-undecanoic acid (PFOS)         1763-23-1         PFAS by ID SOP         ND         3.7         0.48         ng/L         1           Surrogate         Q         % Recovery         Acceptance Limits         ND         3.7         1.8         ng/L         1           13C2_4:2FTS         75         25-150         13C2_9:2FTS         65         25-150         13C2_PFTeDA         46         25-150         13C3_PFBS         62         25-150         13C3_PFBS         62         25-150         13C3_PFBS         62         25-150         13C3_PFHxS         62         25-150         13C3_PFBS         62         25-150         13C3_PFBS         62         25-150         13C3_PFBA         62         25-150         13C3_PFBA         50         25-150         25         25-150         25	Perfluoro-n-pentanoic acid (PFPeA)	2706-90	-3 PFAS by ID SOP	3.4 J		3.7	0.50	ng/L	1
Perfluoro-I-Indecanoic acid (PF ITDA)       72629-94-8       PFAS by ID SOP       ND       3.7       0.48       ng/L       1         Perfluoro-n-undecanoic acid (PFUdA)       2058-94-8       PFAS by ID SOP       ND       3.7       0.57       ng/L       1         Perfluoro-n-undecanoic acid (PFOS)       1763-23-1       PFAS by ID SOP       ND       3.7       0.57       ng/L       1         Surrogate       Q       Run 1 % Recovery       Acceptance Limits       Image: Comparison of the	Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-	7 PFAS by ID SOP	ND		3.7	0.55	ng/L	1
Perfluoro-n-undecanoic acid (PF0GA)       2008-94-8       PFAS by ID SOP       ND       3.7       0.57       ng/L       1         Perfluorocctanesulfonic acid (PFOS)       1763-23-1       PFAS by ID SOP       ND       3.7       1.8       ng/L       1         Surrogate       Q       Run 1 (Recovery Limits)       Acceptance Limits       ND       3.7       1.8       ng/L       1         13C2_4:2FTS       75       25-150       65       25-150       13C2_6:2FTS       62       25-150       13C2_9FDoA       13C2_PFDoA       55       25-150       13C3_PFBS       62       25-150       13C3_PFBS       62       25-150       13C3_PFHxS       62       25-150       13C3_PFBS       62       25-150       13C3_PFHxS       62       25-150       13C3_PFBS       62       25-150       25-150       25-150       25-150       25-150       25-150 <th< td=""><td>Periluoro-n-tridecanoic acid (PFTrDA)</td><td>72629-94</td><td>-8 PFAS by ID SOP</td><td>ND</td><td></td><td>3.7</td><td>0.48</td><td>ng/L</td><td>1</td></th<>	Periluoro-n-tridecanoic acid (PFTrDA)	72629-94	-8 PFAS by ID SOP	ND		3.7	0.48	ng/L	1
Pertiluorooctanesultonic acid (PFOS) $1/63-23-1$ PFAS by ID SOPND $3.7$ $1.8$ ng/L $1$ SurrogateQ $\%$ RecoveryLimits $13C2_4:2FTS$ $75$ $25-150$ $13C2_6:2FTS$ $65$ $25-150$ $13C2_8:2FTS$ $62$ $25-150$ $13C2_PFDoA$ $55$ $25-150$ $13C2_PFTeDA$ $46$ $25-150$ $13C3_PFBS$ $62$ $25-150$ $13C3_PFBS$ $62$ $25-150$ $13C3_PFHxS$ $62$ $25-150$ $13C4_PFBA$ $61$ $25-150$ $13C4_PFBA$ $50$ $25-150$ $13C4_PFBA$ $B$ = Detected in the method blank $E$ = Quantitation of compound exceeded the calibration range $DL$ = Detection Limit $Q$ = Surrogate failure $ND$ = Not detected at or above the DLN = Recovery is out of criteria $P$ = The RPD between two GC columns exceeds $40\%$ $J$ = Estimated result < LOQ and $\geq DL$ $L = LCS/LCSD failureN = Reported on wet weight basisN = Reported on wet weight basisS = MS/MSD failureS = MS/MSD failure$	Perfluoro-n-undecanoic acid (PFUdA)	2058-94-	8 PFAS by ID SOP	ND		3.7	0.57	ng/L	1
Surrogate         Q         % Recovery Limits           13C2_4:2FTS         75         25-150           13C2_6:2FTS         65         25-150           13C2_8:2FTS         62         25-150           13C2_PFDoA         55         25-150           13C2_PFTeDA         46         25-150           13C3_PFBS         62         25-150           13C3_PFBS         62         25-150           13C3_PFHxS         62         25-150           13C3_PFPA         62         25-150           13C3_PFPA         62         25-150           13C3_PFPA         62         25-150           13C3_PFPA         62         25-150           13C4_PFBA         50         25-150           LOQ = Limit of Quantitation M         N = Recovery is out of criteria         P = The RPD between two GC columns exceeds 40%         J = Estimated result < LOQ and ≥ DL	Perfluorooctanesulfonic acid (PFOS)	1763-23	1 PFAS by ID SOP	ND		3.7	1.8	ng/L	1
Surrogate         Q         % Recovery         Limits           13C2_4:2FTS         75         25-150           13C2_6:2FTS         65         25-150           13C2_8:2FTS         62         25-150           13C2_PFDoA         55         25-150           13C2_PFTeDA         46         25-150           13C3_PFBS         62         25-150           13C3_PFBS         62         25-150           13C3_PFHxS         62         25-150           13C3_PFHxS         62         25-150           13C3_PFBA         61         25-150           13C3_PFBA         50         25-150           13C3_PFBA         50         25-150           13C4_PFBA         50         25-150           13C4_PFBA         50         25-150           13C4_PFBA         50         25-150           UQ = Limit of Quantitation         N = Recovery is out of criteria         P = The RPD between two GC columns exceeded the calibration range         DL = Detection Limit         Q = Surrogate failur           L = LCS/LCSD failur         S = MS/MSD failure         S = MS/MSD failure         S = MS/MSD failure		Run 1 A	cceptance						
13C2_4:2FTS       75       25-150         13C2_6:2FTS       65       25-150         13C2_8:2FTS       62       25-150         13C2_PFDoA       55       25-150         13C2_PFTeDA       46       25-150         13C3_PFBS       62       25-150         13C3_PFHxS       62       25-150         13C3_PFHxS       62       25-150         13C4_PFBA       50       25-150         13C4_PFBA       50       25-150         13C4_PFBA       N = Recovery is out of criteria       P = The RPD between two GC columns exceeds 40%       J = Estimated result < LOQ and ≥ DL	Surrogate Q %	Recovery	Limits						
13C2_6:2FTS       65       25-150         13C2_8:2FTS       62       25-150         13C2_PFDoA       55       25-150         13C2_PFTeDA       46       25-150         13C3_PFBS       62       25-150         13C3_PFHxS       62       25-150         13C3_PFHxS       62       25-150         13C3_PFHxS       62       25-150         13C3_HFPO-DA       61       25-150         13C4_PFBA       50       25-150         V         LOQ = Limit of Quantitation       B = Detected in the method blank       E = Quantitation of compound exceeded the calibration range       DL = Detection Limit       Q = Surrogate failure         ND = Not detected at or above the DL       N = Recovery is out of criteria       P = The RPD between two GC columns exceeds 40%       J = Estimated result < LOQ and > DL       L = LCS/LCSD failure         H = Out of holding time       W = Reported on wet weight basis       S = MS/MSD failure       S = MS/MSD failure	13C2_4:2FTS	75	25-150						
13C2_8:2FTS       62       25-150         13C2_PFDoA       55       25-150         13C2_PFTeDA       46       25-150         13C3_PFBS       62       25-150         13C3_PFHxS       62       25-150         13C3_PFHxS       62       25-150         13C3_PFBA       62       25-150         13C3_PFBA       62       25-150         13C3_PFBA       61       25-150         13C4_PFBA       50       25-150         LOQ = Limit of Quantitation         ND = Not detected at or above the DL       N = Recovery is out of criteria       P = The RPD between two GC columns exceeds 40%       J = Estimated result < LOQ and ≥ DL	13C2_6:2FTS	65	25-150						
13C2_PFDoA       55       25-150         13C2_PFTeDA       46       25-150         13C3_PFBS       62       25-150         13C3_PFHxS       62       25-150         13C3_HFPO-DA       61       25-150         13C4_PFBA       50       25-150         13C4_PFBA       50       25-150         LOQ = Limit of Quantitation       B = Detected in the method blank       E = Quantitation of compound exceeded the calibration range       DL = Detection Limit       Q = Surrogate failure         ND = Not detected at or above the DL       N = Recovery is out of criteria       P = The RPD between two GC columns exceeds 40%       J = Estimated result < LOQ and ≥ DL	13C2_8:2FTS	62	25-150						
13C2_PFTeDA       46       25-150         13C3_PFBS       62       25-150         13C3_PFHxS       62       25-150         13C3-HFPO-DA       61       25-150         13C4_PFBA       50       25-150         LOQ = Limit of Quantitation         ND = Not detected at or above the DL       N = Recovery is out of criteria       P = The RPD between two GC columns exceeds 40%       J = Estimated result < LOQ and ≥ DL	13C2_PFDoA	55	25-150						
13C3_PFBS       62       25-150         13C3_PFHxS       62       25-150         13C3-HFPO-DA       61       25-150         13C4_PFBA       50       25-150         LOQ = Limit of Quantitation       B = Detected in the method blank       E = Quantitation of compound exceeded the calibration range       DL = Detection Limit       Q = Surrogate failure         ND = Not detected at or above the DL       N = Recovery is out of criteria       P = The RPD between two GC columns exceeds 40%       J = Estimated result < LOQ and ≥ DL	13C2_PFTeDA	46	25-150						
13C3_PFHxS       62       25-150         13C3_HFPO-DA       61       25-150         13C4_PFBA       50       25-150         LOQ = Limit of Quantitation       B = Detected in the method blank       E = Quantitation of compound exceeded the calibration range       DL = Detection Limit       Q = Surrogate failure         ND = Not detected at or above the DL       N = Recovery is out of criteria       P = The RPD between two GC columns exceeds 40%       J = Estimated result < LOQ and ≥ DL	13C3_PFBS	62	25-150						
13C3-HFPO-DA       61       25-150         13C4_PFBA       50       25-150         LOQ = Limit of Quantitation       B = Detected in the method blank       E = Quantitation of compound exceeded the calibration range       DL = Detection Limit       Q = Surrogate failure         ND = Not detected at or above the DL       N = Recovery is out of criteria       P = The RPD between two GC columns exceeds 40%       J = Estimated result < LOQ and ≥ DL	13C3_PFHxS	62	25-150						
13C4_PFBA       50       25-150         LOQ = Limit of Quantitation       B = Detected in the method blank       E = Quantitation of compound exceeded the calibration range       DL = Detection Limit       Q = Surrogate failure         ND = Not detected at or above the DL       N = Recovery is out of criteria       P = The RPD between two GC columns exceeds 40%       J = Estimated result < LOQ and ≥ DL	13C3-HFPO-DA	61	25-150						
LOQ = Limit of Quantitation       B = Detected in the method blank       E = Quantitation of compound exceeded the calibration range       DL = Detection Limit       Q = Surrogate failure         ND = Not detected at or above the DL       N = Recovery is out of criteria       P = The RPD between two GC columns exceeds 40%       J = Estimated result < LOQ and ≥ DL	13C4_PFBA	50	25-150						
LOQ = Limit or QuantitationB = Detected in the method blankE = Quantitation of compound exceeded the calibration rangeDL = Detection LimitQ = Surrogate failureND = Not detected at or above the DLN = Recovery is out of criteriaP = The RPD between two GC columns exceeds 40%J = Estimated result < LOQ and $\geq$ DLL = LCS/LCSD failureH = Out of holding timeW = Reported on wet weight basisS = MS/MSD failureS = MS/MSD failure							·		
H = Out of holding time $W$ = Reported on wet weight basis $S = MS/MSD failure$	LOQ = LIMIT OF Quantitation     B = Detected in the method bla       ND = Not detected at or above the DI     N = Recovery is out of criteria	וא E = Quantit P = Tho PP	ation of compound exceeded the	e calibration i eeds 40%	ange DL= .I=⊏	Detection Li	IMIT $Suft < I OO and > DI$		gate tailure
	H = Out of holding time W = Reported on wet weight ba	sis			5 – L			S = MS/N	ISD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

		·····	
Client: Pace Analytical Service	es, LLC		Laboratory ID: YB10008-004
Description: MW-6			Matrix: Aqueous
Date Sampled:02/06/2023 1410	Project Na	ame: 00542644-Walmart	
Date Received: 02/10/2023	Project Num	nber: <b>40258010</b>	
Surrogate	Run 1 A Q % Recovery	Acceptance Limits	
13C4_PFHpA	63	25-150	
13C5_PFHxA	63	25-150	
13C5_PFPeA	61	25-150	
13C6_PFDA	58	25-150	
13C7_PFUdA	58	25-150	
13C8_PFOA	64	25-150	
13C8_PFOS	58	25-150	
13C8_PFOSA	58	10-150	
13C9_PFNA	64	25-150	
d-EtFOSA	47	10-150	
d5-EtFOSAA	56	25-150	
d9-EtFOSE	51	10-150	
d-MeFOSA	45	10-150	
d3-MeFOSAA	57	25-150	

10-150

54

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and $\geq$ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

d7-MeFOSE

#### PFAS by LC/MS/MS Client: Pace Analytical Services, LLC Laboratory ID: YB10008-005 Description: MW-7 Matrix: Aqueous Date Sampled:02/06/2023 1430 Project Name: 00542644-Walmart Date Received: 02/10/2023 Project Number: 40258010 Run Prep Method Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch SOP SPE PFAS by ID SOP 02/21/2023 1759 BWS 02/10/2023 1807 67285 1 CAS Analytical Number MDL Result Q LOQ Units Run Parameter Method PFAS by ID SOP 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS) 756426-58-1 ND 7.7 0.47 ng/L 1 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)763051-92-9 PFAS by ID SOP ND 7.7 ng/L 1 0.64 1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS) 39108-34-4 PFAS by ID SOP ND 7.7 ng/L 1 1.5 ND 1H. 1H. 2H. 2H-perfluorooctane sulfonic acid (6:2 FTS) 27619-97-2 PFAS by ID SOP 7.7 ng/L 1 1.9 1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS) 757124-72-4 PFAS by ID SOP ND Q 7.7 0.84 ng/L 1 PFAS by ID SOP Hexafluoropropylene oxide dimer acid (GenX) 13252-13-6 ND 7.7 ng/L 1 2.0 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 919005-14-4 PFAS by ID SOP 7.7 0.47 ND ng/L 1 PFAS by ID SOP N-ethylperfluoro-1-octanesulfonamide (EtFOSA) 4151-50-2 ND ng/L 7.7 1.3 1 N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) 2991-50-6 PFAS by ID SOP ND 7.7 0.72 ng/L 1 2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE) PFAS by ID SOP ND 7.7 0.92 1691-99-2 ng/L 1 N-methylperfluoro-1-octanesulfonamide (MeFOSA) 31506-32-8 PFAS by ID SOP ND 15 1.2 ng/L 1 N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) 2355-31-9 PFAS by ID SOP ND 7.7 0.90 ng/L 1 2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE) 24448-09-7 PFAS by ID SOP ND 7.7 1.2 ng/L 1 Perfluoro-1-butanesulfonic acid (PFBS) 375-73-5 PFAS by ID SOP 28 3.9 0.40 ng/L 1 Perfluoro-1-decanesulfonic acid (PFDS) 335-77-3 PFAS by ID SOP ND 3.9 0.75 ng/L 1 Perfluoro-1-heptanesulfonic acid (PFHpS) 375-92-8 PFAS by ID SOP 9.3 3.9 0.48 ng/L 1 Perfluoro-1-nonanesulfonic acid (PFNS) 68259-12-1 PFAS by ID SOP ND 3.9 ng/L 1 0.69 Perfluoro-1-octanesulfonamide (PFOSA) 754-91-6 PFAS by ID SOP ND 3.9 ng/L 1 0.59 Perfluoro-1-pentanesulfonic acid (PFPeS) 2706-91-4 PFAS by ID SOP 21 3.9 0.57 ng/L 1 Perfluorododecanesulfonic acid (PFDOS) 79780-39-5 PFAS by ID SOP ND 7.7 1.0 ng/L 1 Perfluorohexanesulfonic acid (PFHxS) 355-46-4 PFAS by ID SOP 55 3.9 ng/L 1 0.53 Perfluoro-n-butanoic acid (PFBA) 375-22-4 PFAS by ID SOP 18 3.9 ng/L 0.58 1 335-76-2 PFAS by ID SOP ND Perfluoro-n-decanoic acid (PFDA) 3.9 ng/L 1 0.51 307-55-1 PFAS by ID SOP ND ng/L Perfluoro-n-dodecanoic acid (PFDoA) 39 0.46 1 Perfluoro-n-heptanoic acid (PFHpA) 375-85-9 PFAS by ID SOP 30 3.9 ng/L 1 0.43 Perfluoro-n-hexanoic acid (PFHxA) 307-24-4 PFAS by ID SOP 50 3.9 0.66 ng/L 1 Perfluoro-n-nonanoic acid (PFNA) 375-95-1 PFAS by ID SOP 2.0 J 3.9 ng/L 1 0.45 PFAS by ID SOP Perfluoro-n-octanoic acid (PFOA) 335-67-1 170 3.9 ng/L 1 0.80 Perfluoro-n-pentanoic acid (PFPeA) 2706-90-3 PFAS by ID SOP 21 3.9 ng/L 1 0.53 Perfluoro-n-tetradecanoic acid (PFTeDA) 376-06-7 PFAS by ID SOP ND 3.9 ng/L 0.58 1 Perfluoro-n-tridecanoic acid (PFTrDA) 72629-94-8 PFAS by ID SOP ND 3.9 0.51 ng/L 1 Perfluoro-n-undecanoic acid (PFUdA) 2058-94-8 PFAS by ID SOP ND 3.9 0.60 ng/L 1 Perfluorooctanesulfonic acid (PFOS) 1763-23-1 PFAS by ID SOP 270 3.9 1.9 ng/L 1 Run 1 Acceptance Surrogate Q % Recovery Limits 13C2 4:2FTS Ν 159 25-150 13C2 6:2FTS 119 25-150 13C2 8:2FTS 106 25-150 13C2 PFDoA 89 25-150 13C2\_PFTeDA 88 25-150 100 13C3 PFBS 25-150 103 13C3 PFHxS 25-150 13C3-HFPO-DA 98 25-150 13C4\_PFBA 68 25-150 LOQ = Limit of Quantitation E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure B = Detected in the method blank ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and > DL L = LCS/LCSD failure S = MS/MSD failure H = Out of holding time W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

		,	
Client: Pace Analytical Service	es, LLC	 Laboratory ID: <b>YB10008-005</b>	i
Description: MW-7		Matrix: Aqueous	
Date Sampled:02/06/2023 1430	Project Name: <b>00</b>	)542644-Walmart	
Date Received: 02/10/2023	Project Number: 40	)258010	
Surrogate	Run 1 Accepta Q % Recovery Limit	ance ts	
13C4_PFHpA	104 25-15	50	
13C5_PFHxA	105 25-15	50	
13C5_PFPeA	94 25-15	50	
13C6_PFDA	95 25-15	50	
13C7_PFUdA	98 25-15	50	
13C8_PFOA	103 25-15	50	
13C8_PFOS	97 25-15	50	
13C8_PFOSA	97 10-15	50	
13C9_PFNA	104 25-15	50	
d-EtFOSA	83 10-15	50	

25-150

10-150

10-150

25-150

10-150

93

87

82

96

88

H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and $\geq$ DL	L = LCS/LCSD failure
LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

d5-EtFOSAA

d9-EtFOSE

d-MeFOSA

d3-MeFOSAA

d7-MeFOSE

Client: Pace Analytical Servi	ces, LLC				La	boratory I	D: <b>YB10008-006</b>		
Description: FIELD BLANK						Matri	ix: Aqueous		
Date Sampled:02/06/2023 1310		Proiect Na	me: 00542644-Walmart				•		
Date Received 02/10/2023	F	Proiect Num	ber: <b>40258010</b>						
					_				
RunPrep MethodA1SOP SPE	nalytical Method PFAS by ID SOP	Dilution 1 (	Analysis Date Analys 02/21/2023 1812 BWS	t Prep 02/10/	<b>Date</b> 2023 1807	Batch 67285			
Parameter		CA: Numbe	S Analytical r Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfor	nic acid (9CI-PF3ONS	6) 756426-58	-1 PFAS by ID SOP	ND		6.9	0.41	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-su	Ifonic acid (11CI-PF3	)763051-92	-9 PFAS by ID SOP	ND		6.9	0.57	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic ad	cid (8:2 FTS)	39108-34	-4 PFAS by ID SOP	ND		6.9	1.4	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic ac	id (6:2 FTS)	27619-97	-2 PFAS by ID SOP	ND		6.9	1.7	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid	d (4:2 FTS)	757124-72	-4 PFAS by ID SOP	ND		6.9	0.75	ng/L	1
Hexafluoropropylene oxide dimer acid (Ger	אר)	13252-13	-6 PFAS by ID SOP	ND		6.9	1.8	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADO	NA)	919005-14	-4 PFAS by ID SOP	ND		6.9	0.42	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtF	OSA)	4151-50-	2 PFAS by ID SOP	ND		6.9	1.2	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetion	c acid (EtFOSAA)	2991-50-	6 PFAS by ID SOP	ND		6.9	0.64	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-eth	nanol (EtFOSE)	1691-99-	2 PFAS by ID SOP	ND		6.9	0.82	ng/L	1
N-methylperfluoro-1-octanesulfonamide (M	eFOSA)	31506-32	-8 PFAS by ID SOP	ND		14	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoace	etic acid (MeFOSAA)	2355-31-	9 PFAS by ID SOP	ND		6.9	0.80	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-e	ethanol (MeFOSE)	24448-09	-7 PFAS by ID SOP	ND		6.9	1.1	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)		375-73-	5 PFAS by ID SOP	ND		3.4	0.36	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)		335-77-	3 PFAS by ID SOP	ND		3.4	0.67	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)		375-92-	8 PFAS by ID SOP	ND		3.4	0.43	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)		68259-12	-1 PFAS by ID SOP	ND		3.4	0.61	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)		754-91-	6 PFAS by ID SOP	ND		3.4	0.53	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)		2706-91-	4 PFAS by ID SOP	ND		3.4	0.51	na/L	1
Perfluorododecanesulfonic acid (PFDOS)		79780-39	-5 PFAS by ID SOP	ND		6.9	0.90	na/L	1
Perfluorohexanesulfonic acid (PEHxS)		355-46-	4 PEAS by ID SOP	ND		3.4	0.47	ng/l	1
Perfluoro-n-butanoic acid (PEBA)		375-22-	4 PEAS by ID SOP	ND		3.4	0.52	ng/L	1
Perfluoro-n-decanoic acid (PEDA)		335-76-	2 PEAS by ID SOP	ND		34	0.32	ng/L	1
Perfluoro-n-dodecanoic acid (PEDoA)		307-55-	1 PEAS by ID SOP	ND		3.4	0.41	ng/L	1
Perfluoro-n-bentanoic acid (PEHnA)		375-85-				3.4	0.41	ng/L	1
Porfluoro n boxanoic acid (PEHxA)		307.24				3.4	0.38	ng/L	1
		275.05				3.4 2.4	0.59	ng/L	1
		3/5-95-	A PEAS by ID SOP	ND		3.4	0.40	ng/L	1
Periluoro-n-octanoic acid (PFOA)		335-67-				3.4	0.71	ng/L	1
Perfluoro-n-pentanoic acid (PFPEA)		2706-90-	3 PFAS by ID SOP	0.71	J	3.4	0.47	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)		376-06-	PFAS by ID SOP	ND		3.4	0.52	ng/L	1
Periluoro-n-tridecanoic acid (PFTrDA)		72629-94	-8 PFAS by ID SOP			3.4	0.45	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)		2058-94-	8 PFAS by ID SOP	ND		3.4	0.54	ng/L	1
Perfluorooctanesultonic acid (PFUS)		1763-23-	1 PFAS by ID SOP	ND		3.4	1.7	ng/L	1
		Run 1 A	cceptance						
Surrogate	Q % F	Recovery	Limits						
13C2_4:2FTS		101	25-150						
13C2_6:2FTS		102	25-150						
13C2_8:2FTS		103	25-150						
13C2_PFDoA		90	25-150						
13C2_PFTeDA		87	25-150						
13C3_PFBS		100	25-150						
13C3_PFHxS		99	25-150						
13C3-HFPO-DA		97	25-150						
13C4_PFBA		97	25-150						
	and to the second second		the state of the s	19		Data di Li		<u> </u>	
LOQ = LIMIT OF QUARTITATION B = Dete	ected in the method blank	E = Quantita P = The RP	ation of compound exceeded the	e calibration	range DL =	Detection Li	mit ult < LOQ and > DI	Q = Surro	gate tailure
H = Out of holding time $W = Rep$	orted on wet weight basis	s mont			0 - L			S = MS/N	ISD failure
	5								

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: Baco Analytical Sonvice		Laboratory ID: VB10008 006
	55, LLG	Matrix: Aqueous
Date Sampled:02/06/2023 1310	Project Name: 00542644-Walmart	
Date Received: 02/10/2023	Project Number: <b>40258010</b>	
Surrogate	Run 1 Acceptance Q % Recovery Limits	
13C4_PFHpA	97 25-150	

25-150

25-150

25-150

25-150

25-150

25-150

10-150

25-150

10-150

25-150

10-150

10-150

25-150

10-150

98

99

99

101

101

96

91

99

67

91

83

68

99

87

13C5\_PFHxA

13C5\_PFPeA

13C6\_PFDA

13C7\_PFUdA

13C8\_PFOA

13C8\_PFOS

13C9\_PFNA

d5-EtFOSAA

d9-EtFOSE

d-MeFOSA

d3-MeFOSAA

d7-MeFOSE

d-EtFOSA

13C8\_PFOSA

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and $\geq$ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)* 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com **QC Summary** 

### PFAS by LC/MS/MS - MB

Sample ID: YQ67285-001 Batch: 67285 Analytical Method: PFAS by ID SOP Matrix: Aqueous
Prep Method: SOP SPE

Prep Date: 02/10/2023 1807

9C1-F20NS       ND       1       8.0       0.48       epd.       0.221023 165         82 F1S       ND       1       8.0       16       opd.       0.221023 165         82 F1S       ND       1       8.0       0.66       opd.       0.221023 155         82 F1S       ND       1       8.0       0.87       ngl.       0.221023 155         60 FAS       ND       1       8.0       0.87       ngl.       0.221023 155         66 FAS       ND       1       8.0       0.48       ngl.       0.221023 155         66 FAS       ND       1       8.0       0.48       ngl.       0.221023 155         67 FAS       ND       1       8.0       0.5       ngl.       0.221023 155         67 FAS       ND       1       8.0       0.3       ngl.       0.221023 155         67 FAS       ND       1       8.0       0.3       ngl.       0.221023 155         67 FAS       ND       1       4.0       0.41       ngl.       0.221023 155         67 FAS       ND       1       4.0       0.55       ngl.       0.221023 155         67 FAS       ND       1       4.0	Parameter	Result	Q Dil	LOQ	MDL	Units	Analysis Date
110:PFR20UBS       ND       1       8.0       0.66       npl.       0221023 155         62:PTS       ND       1       8.0       2.0       npl.       0221023 155         62:PTS       ND       1       8.0       0.87       npl.       0221023 155         62:PTS       ND       1       8.0       0.87       npl.       0221023 155         60:NA       ND       1       8.0       0.48       npl.       0221023 155         EPGSA       ND       1       8.0       0.44       npl.       0221023 155         EPGSA       ND       1       8.0       0.75       npl.       0221023 155         EPGSA       ND       1       8.0       0.75       npl.       0221023 155         MFOSA       ND       1       8.0       0.75       npl.       0221023 155         MFOSA       ND       1       8.0       0.76       npl.       0221023 155         MFOSA       ND       1       4.0       0.71       npl.       0221023 155         PFBS       ND       1       4.0       0.76       npl.       0221023 155         PFDSA       ND       1       4.0	9CI-PF3ONS	ND	1	8.0	0.48	ng/L	02/21/2023 1551
8.2 FTS ND 1 1 8.0 1, 0 2021/023 155 42 FTS ND 1 1 8.0 2, 1 ngL 0221/023 155 42 FTS ND 1 1 8.0 2, 1 ngL 0221/023 155 ADONA ND 1 1 8.0 2, 1 ngL 0221/023 155 ADONA ND 1 1 8.0 0,48 ngL 0221/023 155 EFOSA ND 1 1 8.0 0,48 ngL 0221/023 155 EFOSA ND 1 1 8.0 0,95 ngL 0221/023 155 MECOSA ND 1 1 8.0 0,95 ngL 0221/023 155 MECOSA ND 1 1 8.0 0,95 ngL 0221/023 155 FFSS ND 1 1 8.0 0,93 ngL 0221/023 155 FFSS ND 1 1 4.0 0,93 ngL 0221/023 155 FFSS ND 2 1 4.0 0,93 ngL 0221/023 155 FFSS ND 2 1 4.0 0,94 ngL 0221/023 155 FFSS ND 2 1 4.0 0,95 ngL 0221/023 155 FFDA ND 2 1 4.0 0,55 ngL 0221/023 155 FFDA ND 2 1 4.0 0,58 ngL 0221/023 155 FFDA N	11CI-PF3OUdS	ND	1	8.0	0.66	ng/L	02/21/2023 1551
62 FTS       ND       1       8.0       2.0       ng1,       0.221/0203 155         GenX       ND       1       8.0       2.1       ng1,       0.221/0203 155         GenX       ND       1       8.0       2.1       ng1,       0.221/0203 155         ADONA       ND       1       8.0       0.48       ng1,       0.221/0203 155         EFOSA       ND       1       8.0       0.75       ng1,       0.221/0203 155         EFOSA       ND       1       8.0       0.75       ng1,       0.221/0203 155         MFOSAA       ND       1       8.0       0.78       ng1,       0.221/0203 155         MFOSE       ND       1       8.0       0.33       ng1,       0.221/0203 155         PFBS       ND       1       4.0       0.78       ng1,       0.221/0203 155         PFBS       ND       1       4.0       0.61       ng1,       0.221/0203 155         PFDS       ND       1       4.0       0.61       ng1,       0.221/0203 155         PFBS       ND       1       4.0       0.61       ng1,       0.221/0203 155         PFDSA       ND       1       <	8:2 FTS	ND	1	8.0	1.6	ng/L	02/21/2023 1551
42 FTS       ND       1       8.0       0.47       ngL       0.221/2023 155         ADONA       ND       1       8.0       0.48       ngL       0.221/2023 155         EFOSAA       ND       1       8.0       0.48       ngL       0.221/2023 155         EFOSAA       ND       1       8.0       0.75       ngL       0.221/2023 155         MFOSA       ND       1       8.0       0.75       ngL       0.221/2023 155         MFOSA       ND       1       8.0       0.33       ngL       0.221/2023 155         MFOSA       ND       1       8.0       0.33       ngL       0.221/2023 155         MFOSA       ND       1       4.0       0.41       ngL       0.221/2023 155         MFOSA       ND       1       4.0       0.65       ngL       0.221/2023 155         PFDS       ND       1       4.0       0.55       ngL       0.221/2023 155         PFDS       ND       1       4.0       0.55       ngL       0.221/2023 155         PFDA       ND       1       4.0       0.55       ngL       0.221/2023 155         PFDA       ND       1       4.0	6:2 FTS	ND	1	8.0	2.0	ng/L	02/21/2023 1551
GenX     ND     1     8.0     2.1     mgL     0.221/2023 155       EIFOSA     ND     1     8.0     1.4     ngL     0.221/2023 155       EIFOSA     ND     1     8.0     0.75     ngL     0.221/2023 155       EIFOSA     ND     1     8.0     0.75     ngL     0.221/2023 155       MEFOSA     ND     1     16     1.3     ngL     0.221/2023 155       MEFOSA     ND     1     8.0     0.93     ngL     0.221/2023 155       MEFOSA     ND     1     8.0     0.93     ngL     0.221/2023 155       MEFOSA     ND     1     8.0     0.93     ngL     0.221/2023 155       MEFOSA     ND     1     4.0     0.60     ngL     0.221/2023 155       PEBS     ND     1     4.0     0.76     ngL     0.221/2023 155       PFDS     ND     1     4.0     0.59     ngL     0.221/2023 155       PFDS     ND     1     4.0     0.55     ngL     0.221/2023 155       PFDS     ND     1     4.0     0.55     ngL     0.221/2023 155       PFDA     ND     1     4.0     0.69     ngL     0.221/2023 155	4:2 FTS	ND	1	8.0	0.87	ng/L	02/21/2023 1551
ADONA       ND       1       8.0       0.48       mpl       021/1028 155         EIFOSA       ND       1       8.0       0.75       mgl       0221/1028 155         EIFOSA       ND       1       8.0       0.75       mgl       0221/1028 155         EIFOSA       ND       1       8.0       0.75       mgl       0221/1028 155         MFOSA       ND       1       8.0       0.33       mgl       0221/1028 155         MFOSA       ND       1       8.0       0.33       mgl       0221/1028 155         MFOSA       ND       1       4.0       0.44       mgl       0221/1028 155         MFOSA       ND       1       4.0       0.46       mgl       0221/1028 155         PFDS       ND       1       4.0       0.56       mgl       0221/1028 155         PFDS       ND       1       4.0       0.56       mgl       0221/1028 155         PFDS       ND       1       4.0       0.56       mgl       0221/1028 155         PFDA       ND       1       4.0       0.60       mgl       0221/1028 155         PFDA       ND       1       4.0 <t< td=""><td>GenX</td><td>ND</td><td>1</td><td>8.0</td><td>2.1</td><td>ng/L</td><td>02/21/2023 1551</td></t<>	GenX	ND	1	8.0	2.1	ng/L	02/21/2023 1551
EFCSA       ND       1       8.0       1.4       mpl       02/12/021 f55         EFCSAA       ND       1       8.0       0.75       ngl       02/21/021 f55         MEFCSAA       ND       1       16       1.3       ngL       02/21/021 f55         MEFCSAA       ND       1       8.0       0.935       ngL       02/21/021 f55         MEFCSAA       ND       1       8.0       0.33       ngL       02/21/021 f55         MEFCSAA       ND       1       4.0       0.41       ngL       02/21/021 f55         PFBS       ND       1       4.0       0.71       ngL       02/21/021 f55         PFDS       ND       1       4.0       0.71       ngL       02/21/021 f55         PFDS       ND       1       4.0       0.65       ngL       02/21/021 f55         PFDS       ND       1       4.0       0.65       ngL       02/21/021 f55         PFDA       ND       1       4.0       0.65       ngL       02/21/021 f55         PFDA       ND       1       4.0       0.66       ngL       02/21/021 f55         PFDA       ND       1       4.0	ADONA	ND	1	8.0	0.48	ng/L	02/21/2023 1551
EIFOSA       ND       1       8.0       0.75       mpl       0.22170221 f55         MeFOSA       ND       1       16       1.3       mpl       0.22170221 f55         MeFOSA       ND       1       16       1.3       mpl       0.22170221 f55         MeFOSA       ND       1       4.0       0.43       mpl       0.22170221 f55         PFBS       ND       1       4.0       0.41       mpl       0.22170231 f55         PFBS       ND       1       4.0       0.41       mpl       0.22170231 f55         PFBS       ND       1       4.0       0.56       mpl       0.22170231 f55         PFDS       ND       1       4.0       0.57       mpl       0.22170231 f55         PFDS       ND       1       4.0       0.59       mpl       0.22170231 f55         PFDA       ND       1       4.0       0.64       mpl       0.22170231 f55         PFDA       ND       1       4.0       0.64       mpl       0.22170231 f55         PFDA       ND       1       4.0       0.64       mpl       0.22170231 f55         PFDA       ND       1       4.0	EtFOSA	ND	1	8.0	1.4	ng/L	02/21/2023 1551
EFOSE       ND       1       8.0       0.955       mpl       0.221/2023 155         MeFOSA       ND       1       66       1.3       mpl       0.221/2023 155         MeFOSE       ND       1       8.0       0.33       mpl       0.221/2023 155         MeFOSE       ND       1       8.0       0.33       mpl       0.221/2023 155         PRDS       ND       1       4.0       0.741       mpl       0.221/2023 155         PFDS       ND       1       4.0       0.761       mpl       0.221/2023 155         PFNS       ND       1       4.0       0.761       mpl       0.221/2023 155         PFNS       ND       1       4.0       0.761       mpl       0.221/2023 155         PFNS       ND       1       4.0       0.661       mpl       0.221/2023 155         PFNS       ND       1       4.0       0.662       mpl       0.221/2023 155         PFNA       ND       1       4.0       0.624       mpl       0.221/2023 155         PFNA       ND       1       4.0       0.64       mpl       0.221/2023 155         PFNA       ND       1       4.0	EtFOSAA	ND	1	8.0	0.75	ng/L	02/21/2023 1551
MeFOSA       ND       1       16       1.3       npL       02/21/2021 155         MeFOSA       ND       1       8.0       0.33       ngL       02/21/2021 155         PFBS       ND       1       4.0       0.41       ngL       02/21/2021 155         PFBS       ND       1       4.0       0.78       ngL       02/21/2021 155         PFDS       ND       1       4.0       0.76       ngL       02/21/2021 155         PFDS       ND       1       4.0       0.71       ngL       02/21/2021 155         PFDS       ND       1       4.0       0.71       ngL       02/21/2021 155         PFDS       ND       1       4.0       0.59       ngL       02/21/2021 155         PFDS       ND       1       4.0       0.57       ngL       02/21/2021 155         PFDA       ND       1       4.0       0.55       ngL       02/21/2021 155         PFDA       ND       1       4.0       0.45       ngL       02/21/2021 155         PFDA       ND       1       4.0       0.45       ngL       02/21/2021 155         PFDA       ND       1       4.0	EtFOSE	ND	1	8.0	0.95	ng/L	02/21/2023 1551
MeFOSAA     ND     1     8.0     0.93     ngl.     02/21/2023 155       MeFOSE     ND     1     4.0     0.74     ngl.     02/21/2023 155       PFBS     ND     1     4.0     0.76     ngl.     02/21/2023 155       PFDS     ND     1     4.0     0.76     ngl.     02/21/2023 155       PFNS     ND     1     4.0     0.71     ngl.     02/21/2023 155       PFNS     ND     1     4.0     0.71     ngl.     02/21/2023 155       PFNS     ND     1     4.0     0.61     ngl.     02/21/2023 155       PFNS     ND     1     4.0     0.55     ngl.     02/21/2023 155       PFNS     ND     1     4.0     0.55     ngl.     02/21/2023 155       PFDA     ND     1     4.0     0.60     ngl.     02/21/2023 155       PFDA     ND     1     4.0     0.64     ngl.     02/21/2023 155       PFDA     ND     1     4.0     0.64     ngl.     02/21/2023 155       PFNA     ND     1     4.0     0.63     ngl.     02/21/2023 155       PFNA     ND     1     4.0     0.63     ngl.     0/221/2023 155	MeFOSA	ND	1	16	1.3	ng/L	02/21/2023 1551
MeFOSE     ND     1     8.0     1.3     npl.     02217022 155       PFBS     ND     1     4.0     0.41     npl.     02217022 155       PFDS     ND     1     4.0     0.78     npl.     02217022 155       PFHS     ND     1     4.0     0.60     ngl.     02217022 155       PFNS     ND     1     4.0     0.61     ngl.     02217022 155       PFOS     ND     1     4.0     0.61     ngl.     02217022 155       PFOS     ND     1     4.0     0.61     ngl.     02217022 155       PFDAS     ND     1     4.0     0.59     ngl.     02217022 155       PFDA     ND     1     4.0     0.60     ngl.     02217022 155       PFDA     ND     1     4.0     0.65     ngl.     02217022 155       PFDA     ND     1     4.0     0.45     ngl.     02217022 155       PFDA     ND     1     4.0     0.45     ngl.     02217022 155       PFDA     ND     1     4.0     0.45     ngl.     02217022 155       PFDA     ND     1     4.0     0.60     ngl.     02217022 155       PFPA     ND	MeFOSAA	ND	1	8.0	0.93	ng/L	02/21/2023 1551
PFBS       ND       1       4.0       0.41       ngL       0221/0223 155         PFDS       ND       1       4.0       0.50       ngL       0221/0223 155         PFNS       ND       1       4.0       0.50       ngL       0221/0223 155         PFNS       ND       1       4.0       0.51       ngL       0221/0223 155         PFOSA       ND       1       4.0       0.59       ngL       0221/0223 155         PFDS       ND       1       4.0       0.59       ngL       0221/0223 155         PFDAS       ND       1       4.0       0.59       ngL       0221/0223 155         PFDA       ND       1       4.0       0.55       ngL       0221/023 155         PFDA       ND       1       4.0       0.47       ngL       0221/023 155         PFDA       ND       1       4.0       0.46       ngL       0221/023 155         PFDA       ND       1       4.0       0.46       ngL       0221/023 155         PFDA       ND       1       4.0       0.63       ngL       0221/023 155         PFDA       ND       1       4.0       0.63	MeFOSE	ND	1	8.0	1.3	ng/L	02/21/2023 1551
PFDS       ND       1       4.0       0.50       ng/L       0221/0223 155         PFNS       ND       1       4.0       0.71       ng/L       0221/0223 155         PFOSA       ND       1       4.0       0.51       ng/L       0221/0223 155         PFOSA       ND       1       4.0       0.59       ng/L       0221/0223 155         PFDS       ND       1       4.0       0.59       ng/L       0221/0223 155         PFDAS       ND       1       4.0       0.50       ng/L       0221/023 155         PFDA       ND       1       4.0       0.60       ng/L       0221/023 155         PFDA       ND       1       4.0       0.47       ng/L       0221/023 155         PFDA       ND       1       4.0       0.47       ng/L       0221/023 155         PFDA       ND       1       4.0       0.43       ng/L       0221/023 155         PFDA       ND       1       4.0       0.43       ng/L       0221/023 155         PFDA       ND       1       4.0       0.63       ng/L       0221/023 155         PFTDA       ND       1       4.0	PFBS	ND	1	4.0	0.41	ng/L	02/21/2023 1551
PFHpS       ND       1       4.0       0.50       ng/L       02/21/2023 155         PFOSA       ND       1       4.0       0.611       ng/L       02/21/2023 155         PFOSA       ND       1       4.0       0.611       ng/L       02/21/2023 155         PFDS       ND       1       4.0       0.651       ng/L       02/21/2023 155         PFDAS       ND       1       4.0       0.55       ng/L       02/21/2023 155         PFDAS       ND       1       4.0       0.60       ng/L       02/21/2023 155         PFDA       ND       1       4.0       0.62       ng/L       02/21/2023 155         PFDA       ND       1       4.0       0.45       ng/L       02/21/2023 155         PFDA       ND       1       4.0       0.46       ng/L       02/21/2023 155         PFDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFTDA       ND       1	PFDS	ND	1	4.0	0.78	ng/L	02/21/2023 1551
PFNS       ND       1       4.0       0.71       ng/L       0.221/2023 155         PFOSA       ND       1       4.0       0.61       ng/L       0.221/2023 155         PFDoS       ND       1       4.0       0.59       ng/L       0.221/2023 155         PFDoS       ND       1       4.0       0.50       ng/L       0.221/2023 155         PFDA       ND       1       4.0       0.60       ng/L       0.221/2023 155         PFDA       ND       1       4.0       0.60       ng/L       0.221/2023 155         PFDA       ND       1       4.0       0.62       ng/L       0.221/2023 155         PFDA       ND       1       4.0       0.45       ng/L       0.221/2023 155         PFDA       ND       1       4.0       0.45       ng/L       0.221/2023 155         PFDA       ND       1       4.0       0.63       ng/L       0.221/2023 155         PFDA       ND       1       4.0       0.63       ng/L       0.221/2023 155         PFDA       ND       1       4.0       0.63       ng/L       0.221/2023 155         Storegate       ND       1	PFHpS	ND	1	4.0	0.50	ng/L	02/21/2023 1551
PFOSA       ND       1       4.0       0.61       ng/L       0221/2023 155         PFPeS       ND       1       4.0       0.59       ng/L       0221/2023 155         PFDOS       ND       1       4.0       0.55       ng/L       0221/2023 155         PFHAS       ND       1       4.0       0.55       ng/L       0221/2023 155         PFDA       ND       1       4.0       0.60       ng/L       0221/2023 155         PFDA       ND       1       4.0       0.60       ng/L       0221/2023 155         PFDA       ND       1       4.0       0.60       ng/L       0221/2023 155         PFDA       ND       1       4.0       0.45       ng/L       0221/2023 155         PFDA       ND       1       4.0       0.66       ng/L       0221/2023 155         PFDA       ND       1       4.0       0.63       ng/L       0221/2023 155         PFDA       ND       1       4.0       0.63       ng/L       0221/2023 155         PFTDA       ND       1       4.0       0.63       ng/L       0221/2023 155         Stroggto       ND       1       4.0 <td>PFNS</td> <td>ND</td> <td>1</td> <td>4.0</td> <td>0.71</td> <td>ng/L</td> <td>02/21/2023 1551</td>	PFNS	ND	1	4.0	0.71	ng/L	02/21/2023 1551
PFPsS       ND       1       4.0       0.59       ng/L       02/21/2023 155         PFDOS       ND       1       8.0       1.0       ng/L       0.2/21/2023 155         PFBA       ND       1       4.0       0.55       ng/L       0.2/21/2023 155         PFBA       ND       1       4.0       0.60       ng/L       0.2/21/2023 155         PFDA       ND       1       4.0       0.63       ng/L       0.2/21/2023 155         PFDA       ND       1       4.0       0.45       ng/L       0.2/21/2023 155         PFDA       ND       1       4.0       0.45       ng/L       0.2/21/2023 155         PFNA       ND       1       4.0       0.46       ng/L       0.2/21/2023 155         PFNA       ND       1       4.0       0.60       ng/L       0.2/21/2023 155         PFDA       ND       1       4.0       0.63       ng/L       0.2/21/2023 155         PFTDA       ND       1       4.0       0.63       ng/L       0.2/21/2023 155         Strongate       Q       Y       Rec       Acceptance       Image: Content	PFOSA	ND	1	4.0	0.61	ng/L	02/21/2023 1551
PFDOS       ND       1       8.0       1.0       ng/L       0/2/1/2023 155         PFHA       ND       1       4.0       0.66       ng/L       0/2/1/2023 155         PFDA       ND       1       4.0       0.67       ng/L       0/2/1/2023 155         PFDA       ND       1       4.0       0.65       ng/L       0/2/1/2023 155         PFDA       ND       1       4.0       0.47       ng/L       0/2/1/2023 155         PFDA       ND       1       4.0       0.45       ng/L       0/2/1/2023 155         PFHA       ND       1       4.0       0.46       ng/L       0/2/1/2023 155         PFA       ND       1       4.0       0.63       ng/L       0/2/1/2023 155         PFOA       ND       1       4.0       0.63       ng/L       0/2/1/2023 155         PFTDA       ND       1       4.0       0.63       ng/L       0/2/1/2023 155         PFTDA       ND       1       4.0       0.63       ng/L       0/2/1/2023 155         Surgate       Q       K Rec       Acceptance       L       L       L       L       L       L       L       L <t< td=""><td>PFPeS</td><td>ND</td><td>1</td><td>4.0</td><td>0.59</td><td>ng/L</td><td>02/21/2023 1551</td></t<>	PFPeS	ND	1	4.0	0.59	ng/L	02/21/2023 1551
PFHXS       ND       1       4.0       0.55       ng/L       0/2/1/2023 155         PFBA       ND       1       4.0       0.60       ng/L       0/2/1/2023 155         PFDA       ND       1       4.0       0.65       ng/L       0/2/1/2023 155         PFDA       ND       1       4.0       0.47       ng/L       0/2/1/2023 155         PFDA       ND       1       4.0       0.45       ng/L       0/2/1/2023 155         PFHAX       ND       1       4.0       0.46       ng/L       0/2/1/2023 155         PFNA       ND       1       4.0       0.46       ng/L       0/2/1/2023 155         PFAA       ND       1       4.0       0.64       ng/L       0/2/1/2023 155         PFDA       ND       1       4.0       0.60       ng/L       0/2/1/2023 155         PFTDA       ND       1       4.0       0.63       ng/L       0/2/1/2023 155         PFTDA       ND       1       4.0       0.63       ng/L       0/2/1/2023 155         Storogate       Q       Nc exceptance       Interval       0/2/1/2023 155       1/2/2/1/2023 155         Storogate       S	PFDOS	ND	1	8.0	1.0	ng/L	02/21/2023 1551
PFBA       ND       1       4.0       0.60       ng/L       02/21/2023 155         PFDA       ND       1       4.0       0.47       ng/L       02/21/2023 155         PFHA       ND       1       4.0       0.45       ng/L       02/21/2023 155         PFHA       ND       1       4.0       0.45       ng/L       02/21/2023 155         PFNA       ND       1       4.0       0.69       ng/L       02/21/2023 155         PFOA       ND       1       4.0       0.46       ng/L       02/21/2023 155         PFOA       ND       1       4.0       0.43       ng/L       02/21/2023 155         PFOA       ND       1       4.0       0.60       ng/L       02/21/2023 155         PFTDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFTDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFTDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         Storegate       Q       Kec       Limit       4.0       2.0       ng/L       02/21/2023 155         Storegate/Earce <td< td=""><td>PFHxS</td><td>ND</td><td>1</td><td>4.0</td><td>0.55</td><td>ng/L</td><td>02/21/2023 1551</td></td<>	PFHxS	ND	1	4.0	0.55	ng/L	02/21/2023 1551
PFDA       ND       1       4.0       0.52       ng/L       02/21/2023 155         PFDA       ND       1       4.0       0.47       ng/L       02/21/2023 155         PFHAA       ND       1       4.0       0.46       ng/L       02/21/2023 155         PFNA       ND       1       4.0       0.46       ng/L       02/21/2023 155         PFNA       ND       1       4.0       0.46       ng/L       02/21/2023 155         PFPA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFPA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFTeDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFToA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFUA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFUA       ND       1       4.0       0.63       ng/L       02/21/2023 155         Storogate       Q       % Rec       Acceptance       L       L       L       L         1362_e12FTS       51       <	PFBA	ND	1	4.0	0.60	ng/L	02/21/2023 1551
PFDoA       ND       1       4.0       0.47       ng/L       02/21/2023 155         PFHpA       ND       1       4.0       0.45       ng/L       02/21/2023 155         PFHxA       ND       1       4.0       0.69       ng/L       02/21/2023 155         PFNA       ND       1       4.0       0.645       ng/L       02/21/2023 155         PFOA       ND       1       4.0       0.83       ng/L       02/21/2023 155         PFPA       ND       1       4.0       0.84       ng/L       02/21/2023 155         PFToDA       ND       1       4.0       0.60       ng/L       02/21/2023 155         PFToDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFToDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       4.0       2.0       ng/L       02/21/2023 155         13C2_4:2FTS       50       25-150       13C3_2       50       25-150       13C3_2       13C3_2       125-150       13C3_2       125-150       13C3_2       125-150       125-150       125-150       125-	PEDA	ND	1	4.0	0.52	ng/L	02/21/2023 1551
PFHpA       ND       1       4.0       0.45       ng/L       02/21/2023 155         PFNA       ND       1       4.0       0.69       ng/L       02/21/2023 155         PFOA       ND       1       4.0       0.46       ng/L       02/21/2023 155         PFOA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFPA       ND       1       4.0       0.64       ng/L       02/21/2023 155         PFTeDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFUdA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFUA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFOS       ND       1       4.0       0.63       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance       ND       0/221/2023 155       13/22/21/2023 155         13C2_4:2FTS       50       25-150       13/22/21/2023 155       13/22/21/2023 155       13/22/21/2023 155       13/22/21/2023 155         13C3_PFDA       43       25-150       13/22/21/2023 155       13/23/21/20/21/20/21/20/21/20/21/20/21	PFDoA	ND	1	4.0	0.47	ng/L	02/21/2023 1551
PFHXA         ND         1         4.0         0.69         ng/L         02/21/2023 155           PFNA         ND         1         4.0         0.46         ng/L         02/21/2023 155           PF0A         ND         1         4.0         0.69         ng/L         02/21/2023 155           PF0A         ND         1         4.0         0.64         ng/L         02/21/2023 155           PF1eDA         ND         1         4.0         0.60         ng/L         02/21/2023 155           PF1DA         ND         1         4.0         0.60         ng/L         02/21/2023 155           PF10A         ND         1         4.0         0.63         ng/L         02/21/2023 155           PF0S         ND         1         4.0         0.63         ng/L         02/21/2023 155           Surrogate         Q         % Rec         Acceptance         L         1         4.0         2.0         ng/L         02/21/2023 155           13C2_4:2FTS         50         25-150         1         2.5         1         2.2         1         2.2         1         1         1         1         1         1         1         1         1	PFHpA	ND	1	4.0	0.45	ng/L	02/21/2023 1551
PFNA       ND       1       4.0       0.46       ng/L       02/21/2023 155         PFOA       ND       1       4.0       0.83       ng/L       02/21/2023 155         PFTeDA       ND       1       4.0       0.54       ng/L       02/21/2023 155         PFTeDA       ND       1       4.0       0.60       ng/L       02/21/2023 155         PFTrDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFToDA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFOS       ND       1       4.0       0.63       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       4.0       2.0       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       1.0       2.0       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       1.0       2.0       ng/L       02/21/2023 155         Surrogate       Surrogate       50       25-150       1362_6:PFDA       30       25-150         1362_PFDA       43       25-150       25-150       <	PFHxA	ND	1	4.0	0.69	ng/L	02/21/2023 1551
PFOA         ND         1         4.0         0.83         ng/L         02/21/2023 155           PFPeA         ND         1         4.0         0.64         ng/L         02/21/2023 155           PFTeDA         ND         1         4.0         0.63         ng/L         02/21/2023 155           PFTrDA         ND         1         4.0         0.63         ng/L         02/21/2023 155           PFUdA         ND         1         4.0         0.63         ng/L         02/21/2023 155           PFOS         ND         1         4.0         0.63         ng/L         02/21/2023 155           Surrogate         Q         % Rec         Acceptance Limit         1         4.0         2.0         ng/L         02/21/2023 155           Surrogate         Q         % Rec         Limit         4.0         2.0         ng/L         02/21/2023 155           Surrogate         So         25-150         1362_PFDoA         50         25-150         1362_PFDoA         50         25-150         1363_PFBS         49         25-150         1363_PFL         P= The RPD betwen two GC columns exceeds 40%         += RSD is out of criteria         += RSD is out of criteria         += RSD is out of criteria         += RSD i	PFNA	ND	1	4.0	0.46	ng/L	02/21/2023 1551
PFPeA       ND       1       4.0       0.54       ng/L       0/2/1/2023 155         PFTeDA       ND       1       4.0       0.60       ng/L       0/2/1/2023 155         PFToA       ND       1       4.0       0.63       ng/L       0/2/1/2023 155         PFUdA       ND       1       4.0       0.63       ng/L       0/2/1/2023 155         PFOS       ND       1       4.0       0.63       ng/L       0/2/2/1/2023 155         Surrogate       Q       % Rec       Acceptance Limit       4.0       2.0       ng/L       0/2/2/1/2023 155         Surogate       Q       % Rec       Acceptance Limit       4.0       2.0       ng/L       0/2/2/1/2023 155         Surogate       So       25-150       3       25-150       3       3       3         13C2_6:2FTS       51       25-150       3       25-150       3       3       3       3         13C2_PFDA       43       25-150       3       3       25-150       3       3       3       3         13C3_PFBS       49       25-150       3       9       25-150       3       9       9       1       + RPD is out of oriter	PFOA	ND	1	4.0	0.83	ng/L	02/21/2023 1551
PFTeDA       ND       1       4.0       0.60       ng/L       0.2/21/2023 155         PFTrDA       ND       1       4.0       0.63       ng/L       0.2/21/2023 155         PFUdA       ND       1       4.0       0.63       ng/L       0.2/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       Acceptance       Acceptance       Acceptance         13C2_4:2FTS       50       25-150       1       25-150       1       25-150         13C2_6:2FTS       51       25-150       1       25-150       1       1         13C2_PFDA       43       25-150       1       25-150       1       <	PFPeA	ND	1	4.0	0.54	ng/L	02/21/2023 1551
PFTrDA       ND       1       4.0       0.53       ng/L       02/21/2023 155         PFUdA       ND       1       4.0       0.63       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       1       4.0       2.0       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       V       1       4.0       2.0       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       V       ND       0.53       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       V       ND       0.0 <td>PFTeDA</td> <td>ND</td> <td>1</td> <td>4.0</td> <td>0.60</td> <td>ng/L</td> <td>02/21/2023 1551</td>	PFTeDA	ND	1	4.0	0.60	ng/L	02/21/2023 1551
PFUdA       ND       1       4.0       0.63       ng/L       02/21/2023 155         PFOS       ND       1       4.0       2.0       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       ND       0.63       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       ND       0.0       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       ND	PFTrDA	ND	1	4.0	0.53	ng/L	02/21/2023 1551
PFOS       ND       1       4.0       2.0       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       1       4.0       2.0       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       1       4.0       2.0       ng/L       02/21/2023 155         Surrogate       Q       % Rec       Acceptance Limit       1       4.0       2.0       ng/L       02/21/2023 155         13C2_6:2FTS       50       25-150       1       25-150       1 <th1< th="">       1       1       <th1< <="" td=""><td>PFUdA</td><td>ND</td><td>1</td><td>4.0</td><td>0.63</td><td>ng/L</td><td>02/21/2023 1551</td></th1<></th1<>	PFUdA	ND	1	4.0	0.63	ng/L	02/21/2023 1551
Surrogate         Q         % Rec         Acceptance Limit           13C2_4:2FTS         50         25-150           13C2_6:2FTS         51         25-150           13C2_8:2FTS         51         25-150           13C2_PFDoA         50         25-150           13C2_PFTeDA         43         25-150           13C3_PFBS         49         25-150           13C3_PFBS         50         25-150           13C3_PFHxS         50         25-150           13C3_PFHxS         50         25-150           13C3_PFHxS         50         25-150           13C3_PFHxS         50         25-150           13C3_PFBS         49         25-150           13C3_PFHxS         50         25-150           13C3_PFBX         50         25-150           13C3_PFBX         50         25-150           13C3_PFBX         50         25-150           13C3_PFBX         J= Estimated result < LOQ and ≥ DL	PFOS	ND	1	4.0	2.0	ng/L	02/21/2023 1551
13C2_4:2FTS       50       25-150         13C2_6:2FTS       51       25-150         13C2_8:2FTS       51       25-150         13C2_PFDoA       50       25-150         13C2_PFTeDA       43       25-150         13C3_PFBS       49       25-150         13C3_PFHxS       50       25-150         13C3_PFPO-DA       50       25-150         13C3_PFPA       50       25-150         13C3_PFPO-DA       50       25-150         13C3_HFPO-DA       50       25-150         13C3_PFBS       1= Estimated result < LOQ and ≥ DL	Surrogate	Q % Rec	Acceptance Limit				
13C2_6:2FTS       51       25-150         13C2_8:2FTS       51       25-150         13C2_PFDoA       50       25-150         13C2_PFTeDA       43       25-150         13C3_PFBS       49       25-150         13C3_PFHxS       50       25-150         13C3_PFHxS       50       25-150         13C3_HFPO-DA       50       25-150         13C3_HFPO-DA       50       25-150         13C3_HFPO-DA       50       25-150         13C3_HFPO-DA       50       25-150         13C3_PFHxS       50       25-150         13C3_HFPO-DA       50       25-150         13C3_PFHxS       50       25-150         13C3_PFHxS       1= Estimated result < LOQ and ≥ DL	13C2_4:2FTS	50	25-150				
$13C2_{8:2FTS}$ $51$ $25\cdot150$ $13C2_{PFDoA}$ $50$ $25\cdot150$ $13C2_{PFTeDA}$ $43$ $25\cdot150$ $13C3_{PFBS}$ $49$ $25\cdot150$ $13C3_{PFHxS}$ $50$ $25\cdot150$ $13C3_{PFHxS}$ $50$ $25\cdot150$ $13C3_{HFPO-DA}$ $50$ $25\cdot150$ $QQ = Limit of QuantitationND = Not detected at or above the DLN = Recovery is out of criteriaL = Detection LimitJ = Estimated result < LOQ and \geq DLP = The RPD between two GC columns exceeds 40\%* = RSD is out of criteriatestimated result < LOQ and \geq DLV = The RPD between two GC columns exceeds 40\%* = RPD is out of criteriatestimated result < LOQ and \geq DLV = The RPD between two GC columns exceeds 40\%* = RPD is out of criteriatestimated result < LOQ and \geq DLV = The RPD between two GC columns exceeds 40\%* = RPD is out of criteriatestimated result < LOQ and \geq DLV = StorQC Data for Lot Number: YB10Over Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)QC Data for Lot Number: YB10Pare 25 c$	13C2 6:2FTS	51	25-150				
13C2_PFDoA       51       20-100         13C2_PFTeDA       50       25-150         13C3_PFBS       49       25-150         13C3_PFHxS       50       25-150         13C3_PFHxS       50       25-150         13C3_HFPO-DA       50       25-150         0Q = Limit of Quantitation       ND = Not detected at or above the DL       N = Recovery is out of criteria         0Q = Limit of Quantitation       ND = Not detected at or above the DL       N = Recovery is out of criteria         0L = Detection Limit       J = Estimated result < LOQ and ≥ DL	13C2 8:2ETS	51	25-150				
13C2_PFTeDA       50       25-150         13C3_PFBS       49       25-150         13C3_PFHxS       50       25-150         13C3_PFHxS       50       25-150         13C3_HFPO-DA       50       25-150         0Q = Limit of Quantitation       ND = Not detected at or above the DL       N = Recovery is out of criteria         L = Detection Limit       J = Estimated result < LOQ and ≥ DL		51	25-150				
13C2_PFTeDA       43       25-150         13C3_PFBS       49       25-150         13C3_PFHxS       50       25-150         13C3-HFPO-DA       50       25-150         OQ = Limit of Quantitation       ND = Not detected at or above the DL       N = Recovery is out of criteria         L = Detection Limit       J = Estimated result < LOQ and ≥ DL	1302_PFD0A	50	25-150				
13C3_PFBS       49       25-150         13C3_PFHxS       50       25-150         13C3-HFPO-DA       50       25-150         OQ = Limit of Quantitation       ND = Not detected at or above the DL       N = Recovery is out of criteria         L = Detection Limit       J = Estimated result < LOQ and ≥ DL	13C2_PFTeDA	43	25-150				
13C3_PFHxS       50       25-150         13C3-HFPO-DA       50       25-150         OQ = Limit of Quantitation       ND = Not detected at or above the DL       N = Recovery is out of criteria         L = Detection Limit       J = Estimated result < LOQ and ≥ DL	13C3_PFBS	49	25-150				
13C3-HFPO-DA       50       25-150         OQ = Limit of Quantitation       ND = Not detected at or above the DL       N = Recovery is out of criteria         DL = Detection Limit       J = Estimated result < LOQ and ≥ DL	13C3 PFHxS	50	25-150				
OQ = Limit of Quantitation       ND = Not detected at or above the DL       N = Recovery is out of criteria         DL = Detection Limit       J = Estimated result < LOQ and ≥ DL	13C3-HFPO-DA	50	25-150				
OQ = Limit of Quantitation       ND = Not detected at or above the DL       N = Recovery is out of criteria         DL = Detection Limit       J = Estimated result < LOQ and ≥ DL							
L = Detection Limit       J = Estimated result < LOQ and ≥ DL	OQ = Limit of Quantitation	ND = No	t detected at or above the DL	N = R	Recovery is out of	criteria	
* = RSD is out of criteria       + = RPD is out of criteria         Note: Calculations are performed before rounding to avoid round-off errors in calculated results         Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)         06 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com	L = Detection Limit	J = Estin	nated result < LOQ and <u>&gt;</u> DL	P = T	he RPD between	two GC columns exe	ceeds 40%
Note: Calculations are performed before rounding to avoid round-off errors in calculated results       QC Data for Lot Number: YB1         Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)       QC Data for Lot Number: YB1         06 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com       Page 25 c		* = RSD	is out of criteria	+ = R	PD is out of criteri	ia	
Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) O6 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com Page 25 c	Note: Calculations are perform	med before rounding to	avoid round-off errors i	n calculated resu	lts		
C Data for Lot Number: YB1 QC Data for Lot Number: YB1 06 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com	-	north Shooly Francisco 1	Convision (no.)			00.5	
	ace Analytical Services, LLC ( <i>form</i> 06 Vantage Point Drive West Col	umbia SC 29172 (803) 79	<i>Services, Inc.)</i> 11-9700 Fax (803) 791-9111	www.pacelabs.com	n	QC Data	for Lot Number: YB100
	to vanage i one brive West OU	anisa, 00 20112 (000)18	1 51 00 1 dx (000) 1 31-911				Page 25 of 20

### PFAS by LC/MS/MS - MB

Sample ID: YQ67285-001 Batch: 67285				Matrix: Prep Method:	Aqueous SOP SPE	
Analytical Method: PFAS by ID SOP				Prep Date:	02/10/2023	1807
Surrogate	Q	% Rec	Accepta Limit	nce		
13C4_PFBA		50	25-15	0		
13C4_PFHpA		50	25-15	0		
13C5_PFHxA		50	25-15	0		
13C5_PFPeA		50	25-15	0		
13C6_PFDA		51	25-15	0		
13C7_PFUdA		52	25-15	0		
13C8_PFOA		52	25-15	0		
13C8_PFOS		48	25-15	0		
13C8_PFOSA		48	10-15	0		
13C9_PFNA		52	25-15	0		
d-EtFOSA		39	10-15	0		
d5-EtFOSAA		47	25-15	0		
d9-EtFOSE		46	10-15	0		
d-MeFOSA		40	10-15	0		
d3-MeFOSAA		49	25-15	0		
d7-MeFOSE		50	10-15	0		

 LOQ = Limit of Quantitation
 ND = Not detected at or above the DL
 N = Recovery is out of criteria

 DL = Detection Limit
 J = Estimated result < LOQ and ≥ DL</td>
 P = The RPD between two GC columns exceeds 40%

 \* = RSD is out of criteria
 + = RPD is out of criteria

#### Note: Calculations are performed before rounding to avoid round-off errors in calculated results

QC Data for Lot Number: YB10008

### PFAS by LC/MS/MS - LCS

Sample ID: YQ67285-002 Batch: 67285 Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 02/10/2023 1807

Parameter	Spike Amount (ng/L)	Result (ng/L) Q	Dil	% Rec	%Rec Limit	Analysis Date
9CI-PE3ONS	15	16	1	109	50-150	02/21/2023 1604
11CI-PF3OUdS	15	16	1	109	50-150	02/21/2023 1604
8:2 FTS	15	18	1	118	50-150	02/21/2023 1604
6:2 FTS	15	17	1	115	50-150	02/21/2023 1604
4:2 FTS	15	18	1	120	50-150	02/21/2023 1604
GenX	32	38	1	119	50-150	02/21/2023 1604
ADONA	15	16	1	109	50-150	02/21/2023 1604
EtFOSA	16	19	1	121	50-150	02/21/2023 1604
EtFOSAA	16	19	1	118	50-150	02/21/2023 1604
EtFOSE	16	18	1	113	50-150	02/21/2023 1604
MeFOSA	16	19	1	120	50-150	02/21/2023 1604
MeFOSAA	16	18	1	113	50-150	02/21/2023 1604
MeFOSE	16	18	1	112	50-150	02/21/2023 1604
PFBS	14	15	1	107	50-150	02/21/2023 1604
PFDS	15	16	1	106	50-150	02/21/2023 1604
PFHpS	15	16	1	104	50-150	02/21/2023 1604
PFNS	15	17	1	108	50-150	02/21/2023 1604
PFOSA	16	18	1	116	50-150	02/21/2023 1604
PFPeS	15	16	1	107	50-150	02/21/2023 1604
PFDOS	15	15	1	99	50-150	02/21/2023 1604
PFHxS	15	15	1	106	50-150	02/21/2023 1604
PFBA	16	17	1	108	50-150	02/21/2023 1604
PFDA	16	18	1	112	50-150	02/21/2023 1604
PFDoA	16	16	1	101	50-150	02/21/2023 1604
PFHpA	16	17	1	109	50-150	02/21/2023 1604
PFHxA	16	17	1	106	50-150	02/21/2023 1604
PFNA	16	18	1	110	50-150	02/21/2023 1604
PFOA	16	17	1	107	50-150	02/21/2023 1604
PFPeA	16	17	1	107	50-150	02/21/2023 1604
PFTeDA	16	17	1	107	50-150	02/21/2023 1604
PFTrDA	16	17	1	108	50-150	02/21/2023 1604
PFUdA	16	18	1	111	50-150	02/21/2023 1604
PFOS	15	16	1	107	50-150	02/21/2023 1604
Surrogate	Q % Red	Acceptance				
13C2_4:2FTS	92	25-150				
13C2 6:2FTS	91	25-150				
13C2 8:2FTS	89	25-150				
	94	25-150				
	83	25-150				
13C3_PEBS	90	25-150				
	50 02	25-150				
	92	25-150				
13С3-ПГРО-DA	90	25-150				
LOQ = Limit of Quantitation	ND = N	ot detected at or above the DL		N = Recovery is ou	t of criteria	
DL = Detection Limit	J = Esti	mated result < LOQ and <u>&gt;</u> DL		P = The RPD betw	een two GC columns ex	ceeds 40%
	* = RS[	D is out of criteria		+ = RPD is out of c	riteria	
Note: Calculations are perform	med before rounding to	avoid round-off errors	s in calcula	ted results		
Pace Analytical Services, LLC (form 106 Vantage Point Drive West Col	nerly Shealy Environmental umbia, SC 29172 (803) 7	Services, Inc.) 91-9700 Fax (803) 791-91	l11 www.pa	celabs.com	QC Data	for Lot Number: YB10008 Page 27 of 35

### PFAS by LC/MS/MS - LCS

Sample ID: YQ67285-002 Batch: 67285 Analytical Method: PFAS by ID SOP					Matrix: Prep Method: Prep Date:	Aqueous SOP SPE 02/10/2023	1807
Surrogate	Q	% Rec	Ac	ceptance Limit			
13C4_PFBA		90		25-150			
13C4_PFHpA		89		25-150			
13C5_PFHxA		93		25-150			
13C5_PFPeA		92		25-150			
13C6_PFDA		88		25-150			
13C7_PFUdA		90		25-150			
13C8_PFOA		93		25-150			
13C8_PFOS		87		25-150			
13C8_PFOSA		86		10-150			
13C9_PFNA		93		25-150			
d-EtFOSA		71		10-150			
d5-EtFOSAA		87		25-150			
d9-EtFOSE		95		10-150			
d-MeFOSA		69		10-150			
d3-MeFOSAA		90		25-150			
d7-MeFOSE		88		10-150			

 LOQ = Limit of Quantitation
 ND = Not detected at or above the DL
 N = Recovery is out of criteria

 DL = Detection Limit
 J = Estimated result < LOQ and > DL
 P = The RPD between two GC columns exceeds 40%

 \* = RSD is out of criteria
 + = RPD is out of criteria

#### Note: Calculations are performed before rounding to avoid round-off errors in calculated results

QC Data for Lot Number: YB10008

### PFAS by LC/MS/MS - Duplicate

Sample ID: YB10008-002DU Batch: 67285 Analytical Method: PFAS by ID SOP Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 02/10/2023 1807

Parameter	Sample Amount (ng/L)	Result (ng/L)	Q	Dil	% RPD	%RPD Limit	Analysis Date
9CI-PF3ONS	ND	ND		1	0.00	20	02/21/2023 1708
11CI-PF3OUdS	ND	ND		1	0.00	20	02/21/2023 1708
8:2 FTS	ND	ND		1	0.00	20	02/21/2023 1708
6:2 FTS	ND	ND		1	0.00	20	02/21/2023 1708
4:2 FTS	ND	ND		1	0.00	20	02/21/2023 1708
GenX	ND	ND		1	0.00	20	02/21/2023 1708
ADONA	ND	ND		1	0.00	20	02/21/2023 1708
EtFOSA	ND	ND		1	0.00	20	02/21/2023 1708
EtFOSAA	19	18		1	2.3	20	02/21/2023 1708
EtFOSE	ND	ND		1	0.00	20	02/21/2023 1708
MeFOSA	ND	ND		1	0.00	20	02/21/2023 1708
MeFOSAA	66	66		1	0.29	20	02/21/2023 1708
MeFOSE	ND	ND		1	0.00	20	02/21/2023 1708
PFBS	15	15		1	4.4	20	02/21/2023 1708
PFDS	ND	ND		1	0.00	20	02/21/2023 1708
PFHpS	1.3	1.5	J	1	12	20	02/21/2023 1708
PFNS	ND	ND		1	0.00	20	02/21/2023 1708
PFOSA	2.1	1.9	J	1	9.1	20	02/21/2023 1708
PFPeS	6.7	6.7		1	0.22	20	02/21/2023 1708
PFDOS	ND	ND		1	0.00	20	02/21/2023 1708
PFHxS	14	14		1	2.4	20	02/21/2023 1708
PFBA	17	19		1	6.4	20	02/21/2023 1708
PFDA	ND	ND		1	0.00	20	02/21/2023 1708
PFDoA	ND	ND		1	0.00	20	02/21/2023 1708
PFHpA	11	10		1	5.4	20	02/21/2023 1708
PFHxA	28	27		1	2.0	20	02/21/2023 1708
PFNA	ND	0.51	J,+	1	41	20	02/21/2023 1708
PFOA	43	41		1	3.7	20	02/21/2023 1708
PFPeA	15	14		1	7.1	20	02/21/2023 1708
PFTeDA	ND	ND		1	0.00	20	02/21/2023 1708
PFTrDA	ND	ND		1	0.00	20	02/21/2023 1708
PFUdA	ND	ND		1	0.00	20	02/21/2023 1708
PFOS	40	40		1	0.24	20	02/21/2023 1708
Surrogate	Q % Rec	Accept Lim	ance it				
13C2 4.2FTS	70	25-1	50				
13C2 6:2ETS	65	25_1	50				
	00	20-1	50				
13C2_8:2F15	64	25-1	50				
13C2_PFDoA	59	25-1	50				
13C2_PFTeDA	29	25-1	50				
13C3_PFBS	59	25-1	50				
13C3_PFHxS	59	25-1	50				
13C3-HFPO-DA	58	25-1	50				
.OQ = Limit of Quantitation	ND = Not o	letected at or abo	ve the DL		N = Recovery is out	of criteria	
DL = Detection Limit	J = Estima	ted result < LOQ a	and $\geq$ DL		P = The RPD betwe	en two GC columns e	exceeds 40%
	* = RSD is	out of criteria			+ = RPD is out of cri	iteria	
Note: Calculations are perform	ned before rounding to a	void round-c	off errors i	n calculat	ted results		
Pace Analytical Services, LLC <i>(form</i> 106 Vantage Point Drive West Colu	erly Shealy Environmental Se Imbia, SC 29172 (803) 791-	<i>rvices, Inc.)</i> 9700 Fax (80	03) 791-9111	l www.pa	celabs.com	QC Data	a for Lot Number: YB100

### PFAS by LC/MS/MS - Duplicate

Sample ID: YB10008-002DU Batch: 67285					Matrix: Prep Method:	Aqueous SOP SPE
Analytical Method: PFAS by ID SOP					Prep Date:	02/10/2023 1807
Surrogate	Q	% Rec	Ac	ceptance Limit		
13C4_PFBA		47		25-150		
13C4_PFHpA		60		25-150		
13C5_PFHxA		61		25-150		
13C5_PFPeA		60		25-150		
13C6_PFDA		60		25-150		
13C7_PFUdA		63		25-150		
13C8_PFOA		62		25-150		
13C8_PFOS		57		25-150		
13C8_PFOSA		56		10-150		
13C9_PFNA		64		25-150		
d-EtFOSA		33		10-150		
d5-EtFOSAA		56		25-150		
d9-EtFOSE		47		10-150		
d-MeFOSA		35		10-150		
d3-MeFOSAA		58		25-150		
d7-MeFOSE		49		10-150		

 LOQ = Limit of Quantitation
 ND = Not detected at or above the DL
 N = Recovery is out of criteria

 DL = Detection Limit
 J = Estimated result < LOQ and > DL
 P = The RPD between two GC columns exceeds 40%

 \* = RSD is out of criteria
 + = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

QC Data for Lot Number: YB10008

### PFAS by LC/MS/MS - MS

Sample ID: YB10008-003MS Batch: 67285

Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE

Prep Date: 02/10/2023 1807

Parameter	Sample Amoun (ng/L)	t Amou (ng/L	e nt Result ) (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
9CI-PF3ONS	ND	14	15		1	110	50-150	02/21/2023 1733
11CI-PF3OUdS	ND	14	14		1	101	50-150	02/21/2023 1733
8:2 FTS	ND	14	17		1	119	50-150	02/21/2023 1733
6:2 FTS	ND	14	17		1	116	50-150	02/21/2023 1733
4:2 FTS	ND	14	17		1	123	50-150	02/21/2023 1733
GenX	ND	30	36		1	120	50-150	02/21/2023 1733
ADONA	ND	14	15		1	106	50-150	02/21/2023 1733
EtFOSA	ND	15	17		1	111	50-150	02/21/2023 1733
EtFOSAA	4.1	15	21		1	111	50-150	02/21/2023 1733
EtFOSE	ND	15	18		1	120	50-150	02/21/2023 1733
MeFOSA	ND	15	17		1	113	50-150	02/21/2023 1733
MeFOSAA	8.6	15	25		1	111	50-150	02/21/2023 1733
MeFOSE	ND	15	17		1	111	50-150	02/21/2023 1733
PFBS	24	13	39		1	108	50-150	02/21/2023 1733
PFDS	ND	15	15		1	102	50-150	02/21/2023 1733
PFHpS	20	14	35		1	103	50-150	02/21/2023 1733
PFNS	ND	14	15		1	105	50-150	02/21/2023 1733
PFOSA	19	15	37		1	119	50-150	02/21/2023 1733
PFPeS	28	14	43		1	107	50-150	02/21/2023 1733
PFDOS	ND	15	14		1	99	50-150	02/21/2023 1733
PFHxS	110	14	130		1	108	50-150	02/21/2023 1733
PFBA	15	15	31		1	108	50-150	02/21/2023 1733
PFDA	0.81	15	17		1	106	50-150	02/21/2023 1733
PFDoA	ND	15	17		1	110	50-150	02/21/2023 1733
PFHpA	21	15	37		1	105	50-150	02/21/2023 1733
PFHxA	25	15	42		1	112	50-150	02/21/2023 1733
PFNA	4.1	15	21		1	110	50-150	02/21/2023 1733
PFOA	190	15	220	Ν	1	166	50-150	02/21/2023 1733
PFPeA	11	15	27		1	111	50-150	02/21/2023 1733
PFTeDA	ND	15	16		1	108	50-150	02/21/2023 1733
PFTrDA	ND	15	16		1	107	50-150	02/21/2023 1733
PFUdA	ND	15	17		1	115	50-150	02/21/2023 1733
PFOS	940	14	980	Ν	1	319	50-150	02/21/2023 1733
Surrogate	Q %	Rec	Acceptance Limit					
13C2_4:2FTS	N	195	25-150					
13C2_6:2FTS		144	25-150					
13C2 8:2FTS		107	25-150					
13C2 PFDoA		87	25-150					
13C2 PFTeDA		80	25-150					
13C3 PFBS		90	25-150					
13C3 PFHxS		92	25-150					
- 13C3-HFPO-DA		86	25-150					
OQ = Limit of Quantitation	Ν	ID = Not detected	at or above the DL		N = Rec	overy is out of criteri	a	
L = Detection Limit	J	= Estimated resu	It < LOQ and $\geq$ DL		P = The	RPD between two G	GC columns excee	eds 40%
	*	= RSD is out of c	riteria		+ = RPD	) is out of criteria		
lata, Calaulatiana ara narfarr	nod hoforo roundi	na to ovoid			- 41			

### PFAS by LC/MS/MS - MS

Sample ID: YB10008-003MS Batch: 67285 Analytical Method: PFAS by ID SOP		P	Matrix: Prep Method: Prep Date:	Aqueous SOP SPE 02/10/2023 1807	
Surrogate	Q % Rec	Acceptance Limit			
13C4_PFBA	42	25-150			
13C4_PFHpA	94	25-150			
13C5_PFHxA	89	25-150			
13C5_PFPeA	78	25-150			
13C6_PFDA	95	25-150			
13C7_PFUdA	91	25-150			
13C8_PFOA	96	25-150			
13C8_PFOS	87	25-150			
13C8_PFOSA	91	10-150			
13C9_PFNA	92	25-150			
d-EtFOSA	75	10-150			
d5-EtFOSAA	90	25-150			
d9-EtFOSE	78	10-150			
d-MeFOSA	76	10-150			
d3-MeFOSAA	94	25-150			
d7-MeFOSE	85	10-150			

 LOQ = Limit of Quantitation
 ND = Not detected at or above the DL
 N = Recovery is out of criteria

 DL = Detection Limit
 J = Estimated result < LOQ and > DL
 P = The RPD between two GC columns exceeds 40%

 \* = RSD is out of criteria
 + = RPD is out of criteria

#### Note: Calculations are performed before rounding to avoid round-off errors in calculated results

QC Data for Lot Number: YB10008

# Chain of Custody and Miscellaneous Documents

Chain of Custody	Samples Pre-Logged Into eCOC, State Of Origin: W Cert. Needed: K Yes No No No No Notice And Note: 2(90073 No		Pace Analytical West Columbia 105 Vantage Point Drive West Columbia, SC 29172 Phone (803)791-9703 Phone (803)791-9703 Phone (803)791-9703 Phone (803)791-9703 Phone (803)791-9703 Phone (803)791-9703	Sample Collection Interview Contrainers of Contrain	PS 2/3/223 13:15 40256010001 Walter 3 X X X	PS 2/3/2/2/3 13:60 402/26/01/0002 [Water 2 ] X ] X	PS 215/2023 14:25 4/2580100003 Walter 2	PS 208/2023 14:10 402580100004 Water 3 X	PS 2/81/2028 14:50 4/2258010005 Water 3A X X	PS 2/2/2/2/3 13:10 4/2258010008 Water 3 1 X X		Date/Time Received By Date/Time	the pare the lite	1 1 0 0 k	K PIPIZE YSH MUKUN WATTAIN RINGS PA	ceipt ] () °C Custody Seal M or N Received on Ice (Y pr N Samples Intack Y) or N	confidentiality, locationiname of the sampling site, sampler's name and signature may not be provided on this COC document. Insidered complete as is since this information is available in the owner laboratory.	
ain of Cust	Ser Ser	COLUCE INSTITUTE: COL	ц « > ц	Sample Collect Type EditTing	PS 2/8/2023 13	PS 2/8/2028 13	PS 2/5/2023 14	PS 2/8/2023 14	PS 2/6/2023 14	PS 2/6/2023 13		Date/	- pace the	-	2/10	1 0 °C	denliality, location/i ered complete as it	
Internal Transfer Ch		Fulkolder, +u20010 10010	Angela Lane Pace Analytical Green Bay 1241 Bellevus St <del>raet</del> Suite 9 Green Bay, WI 54302 Fhone (920)469-2436	Rever Barmate Ed.	5 Minus	2 MW4	3 MM-5	4 Mutte	5 MW-7	S HELO BLANK	「「「「「「「「」」」」」」」」」」」」」」」」」」」」」」」」」」」」	Transfers Released By		2	· FOG EX	Cooler Temperature on Receipt	""In order to maintain client confid This chain of custody is conside	

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

DC#\_Title: ENV-FRM-WCOL-0286 v02\_Samples Receipt Checklist (SRC) Effective Date: 8/2/2022

### Sample Receipt Checklist (SRC)

Client: PACE	Cooler Inspected by/date: CDR / 2/10/23 Lot #: YB10008
Means of receipt:	Pace Client UPS V FedEx Other:
Yes VNo	1. Were custody seals present on the cooler?
Yes No 🗸 N	A 2. If custody seals were present, were they intact and unbroken?
DH Strip ID: NA	Chlorine Strip ID: NA Tested by: NA
Driginal temperature up	oon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA
1.0 / 1.0 °C NA	<u>/NA °C NA /NA °C NA /NA °C</u>
vlethod: 🖌 Temperatur	e Blank Against Bottles R. Gun ID; 8 IR Gun Correction Factor: 0 °C
viethod of coolant: 🗹	Wet Ice Ice Packs Dry Ice None
Zive Die Die	3. Were all coolers received at or below 6.0°C? If no, was Project Manager notified?
	PM was Notified by: phone / email / face-to-face (circle one).
Ves No N	JA 4. Is the commercial courier's packing slip attached to this form?
Yes No	<ol><li>Were proper custody procedures (retinquished/received) followed?</li></ol>
Yes No	6. Were sample IDs listed on the COC and all sample containers?
✓ Yes No	7. Was collection date & time listed on the COC and all sample containers?
VYes No	8. Did all container label information (ID, date, time) agree with the COC?
✓ Yes No	9. Were tests to be performed listed on the COC?
Ves No	10. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
VYes No	(). Was adequate sample volume available?
VYes No	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
VYes No	13. Were all samples containers accounted for? (No missing/excess)
	14 Wore VOA 20150 and RSK-175 counter free of hubbles >"per-size" (4" or fumu in
Yes No	A diameter) in any of the VOA vials?
Yes No 🗸 N	4A 15. Were all DRO/metals/initrient samples received at a pH of < 27
Yes No V	4A 16. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Ves No ZN	VA residual chlorine?
Tes 🚺 No 🗆	VA 18. Was the quote number listed on the container label? If yes. Quote #
Sample Preservation	(Must be completed for any sample(s) incorrectly preserved or with headspace.)
Sample(s)	were received incorrectly preserved and were adjusted accordingly
in sample receiving wit	h mL of circle one: H2SO4, HNO3, HCl. NaOH using SR # . □
Time of preservation	. If more than one preservative is needed, please note in the comments below.
Sample(s) NA	were received with bubbles >6 mm in diameter.
Samples(s) NA	were received with TRC > 0.5 mg/L (If #19 is $no$ ) and were
adjusted accordingly in	sample receiving with sodium thiosulfate (Na2S2O3) with Unique ID: NA
Commenter	
comments.	
14 (2012)	

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com