

Paul Lindquist

From: Paul Lindquist
Sent: Friday, December 23, 2022 6:14 PM
To: Beggs, Tauren R - DNR
Cc: Kristin Jones (Kristin.Jones@newellco.com); Jeanne Tarvin; Susan Petrofske
Subject: BRRTS #: 02-36-545108 (MIRRO PLT 9 [Former] - LGU) - Data Transmittal Letter: October 2022 Groundwater Sampling
Attachments: NR 716.14 Data Transmittal_WDNR.pdf

Good evening Tauren,

Attached for your records is a copy of the data transmittal letter for the October 2022 groundwater sampling activities completed as part of the site investigation of the former Mirro Plant No. 9 facility (BRRTS #02-36-545108) located at 1512 Washington Street in Manitowoc, WI. Please note, a copy of the letter and attachments will be uploaded to the WDNR RR Program Submission Portal.

Thank you and have a great weekend.

Paul Lindquist

Managing Consultant
1692722 - Great Lakes

D 262-901-3510
M 612-209-8676
plindquist@ramboll.com

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA
<https://ramboll.com>



Sent via E-Mail

Mr. Tauren Beggs
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727

**NR 716.14 DATA TRANSMITTAL
OCTOBER 2022 GROUNDWATER ANALYTICAL RESULTS
FORMER MIRRO PLANT NO. 9 FACILITY
1512 WASHINGTON STREET, MANITOWOC, WISCONSIN
WDNR BRRTS NO. 02-36-545108**

Dear Mr. Beggs:

Ramboll US Consulting, Inc. (Ramboll), on behalf of Newell Operating Company (NOC), is providing the Wisconsin Department of Natural Resources (WDNR) with the attached analytical results for the October 2022 groundwater sampling event completed as part of the site investigation of the former Mirro Plant No. 9 site in Manitowoc, Wisconsin. The groundwater samples were collected between October 24 and 27, 2021, in accordance with the approved Additional Site Investigation Work Plan submitted to the WDNR on June 6, 2022, and approved on July 12, 2022. A figure showing the monitoring well locations is attached along with draft tabulated results (Attachment A) and the laboratory analytical report (Attachment B).


If you have any questions, please feel contact us at the numbers listed below.

Yours sincerely,



Paul D. Lindquist
Managing Consultant

D 262 901 3510
plindquist@ramboll.com



Jeanne M. Tarvin, PG, CPG
E&H Americas Country Market Director

D 262 901 0085
jtarvin@ramboll.com

cc: Kristin Jones, NOC

December 23, 2022

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA

T +1 414 837 3607
F +1 414 837 3608
www.ramboll.com

Ref. 1690019647

ATTACHMENT A

TABLES AND FIGURE

Table 1 – October 2022 Groundwater Analytical Results

Figure 1 – Site Layout and Monitoring Well Network

Table 1. Groundwater Analytical Results

Former Mirro Plant No. 9
 1512 Washington Street, Manitowoc, WI 54220
 FID No.: 436033730 BRRTS No.: 02-36-545108



Sample Location	Sample Date	PFAS (6) ¹	Fluorotelomer sulfonic acid (FTSA)					Perfluoroalkane sulfonamides (FASA) and derivatives							Perfluoroalkane sulfonic acid (PFSA)							Perfluoroalkyl carboxylic acid (PFCA)										Polyfluoroalkyl ether sulfonic acid (PFESA)								
			4:8-Dioxo-3H-perfluorononanoic acid (ADDONA)	4:2-Fluorotelomer sulfonic acid	6:2-Fluorotelomer sulfonic acid	8:2-Fluorotelomer sulfonic acid	HFPO-DA (GenX)	NEFOSA	NEFOSAA	NEFOSE	NMeFOSA	NMeFOSAA	NMeFOSE	Perfluorooctanesulfonamide (FOSA)	Perfluorobutanesulfonic acid (PFBS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorododecanesulfonic acid (PFDS)	Perfluorooctanesulfonic acid (PFOS)	Perfluoroheptanesulfonic acid (PFHps)	Perfluorohexanesulfonic acid (PFHs)	Perfluorooctanesulfonic acid (PFNS)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctanoic acid (PFOnA)	Perfluoropentanoic acid (PFPeA)	Perfluoroheptanoic acid (PFHpA)	Perfluorotetraecanoic acid (PFTEA)	Perfluorotridecanoic acid (PFTrA)	Perfluoroundecanoic acid (PFUnA)	11CI-PF3OU6S (F-53B Minor)	9CI-PF3ONS (F-53B Major)			
			ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
WI DHS Recommended ES:	20	3,000	NS	NS	NS	300	20	20	20	NS	NS	NS	20	450,000	NS	NS	NS	40	NS	20	NS	10,000	300	500	NS	150,000	30	20	NS	10,000	NS	3,000	NS	NS	NS	NS				
WI DHS Recommended PAL:	2	600	NS	NS	NS	30	2	2	2	NS	NS	NS	2	90,000	NS	NS	NS	4	NS	2	NS	2,000	60	100	NS	30,000	3	2	NS	2,000	NS	600	NS	NS	NS	NS	NS	NS		
AECOM MW-18	10/24/2022	950.0	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<3.9 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	<4.8 U	<3.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	0.76 J	<1.9 U	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	49	19	<1.9 U	950	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	
AECOM MW-19	10/24/2022	4,710	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<3.8 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	<4.8 U	<3.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	4	<1.9 U	10	<1.9 U	<4.8 U	<1.9 U	<1.9 U	110	23	2.6	4,700	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	
AECOM MW-20	10/26/2022	124.1	<2 U	<2 U	<4.9 U	<2 U	<3.9 U	<2 U	<4.9 U	<2 U	<2 U	<4.9 U	<3.9 U	<2 U	2.7	<2 U	<2 U	<2 U	3.7	<2 U	4.1	0.34 J	11	<2 U	<2 U	4.5	6.7	120	8.5	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U



Table 1. Groundwater Analytical Results

Former Mirro Plant No. 9
1512 Washington Street, Manitowoc, WI 54220
FID No.: 436033730 BRRTS No.: 02-36-545108

DRAFT

Table with columns for Sample Location, Sample Date, VOC (Chloroform, Chloromethane, etc.), PCB (PCB-1016, etc.), and Metal (Aluminum, etc.). Rows include various monitoring wells (MW-18, MW-19, etc.) and reporting units.

[O:MGP 12/23/22]

Table 1. Groundwater Analytical Results

Former Mirro Plant No. 9
1512 Washington Street, Manitowoc, WI 54220
FID No.: 436033730 BRRTS No.: 02-36-545108

DRAFT

Notes:

Bold	is equal to or greater than WI DHS Groundwater ES
<u>Underlined</u>	is equal to or greater than WI DHS Groundwater PAL
Gray Text	analyte not detected

Results & Flags:

- = Analysis not performed
- < = Concentration is less than the Limit of Detection (LOD)
- J = Estimated concentration
- J+ = Indicates a concentration estimated with high bias
- ND = Not Detected
- R = Result rejected during validation
- U = Concentration was not detected above the reported limit

Acronyms:

- µg/L = micrograms per liter
- BRRTS = Bureau for Remediation and Redevelopment Tracking System
- BTEX = Benzene, Toluene, Ethylbenzene and Xylene
- ES = Enforcement Standard
- FID = facility identification number
- ng/L = nanograms per liter
- NS = No Screening Level
- PAH = Polycyclic Aromatic Hydrocarbon
- PAL = Preventive Action Limit
- PFAS = per- and polyfluoroalkyl substances
- WDNR = Wisconsin Department of Natural Resources
- WI = Wisconsin
- WI DHS = Wisconsin Department of Health Services
- VOC = Volatile Organic Compound

Superscripts:

- PFAS (6) were calculated by Ramboll as follows:
 - Where detections were observed, only the detected results were added together for the total summation.
 - Where no detections were observed, the highest level of detection is presented as the sum
 - Analytes used for the calculation are NETFOSA, NETFOSAA, NETFOSE, FOSA, PFOS, and PFOA as identified in the "11th Cycle of Groundwater Standard Proposals" published on Nov 6, 2020 by the WI DHS.
 - Qualifiers are not included in the summation of the total.
- Total trimethylbenzenes were calculated by Ramboll as follows:
 - Where no detections were observed, the sum of the reporting limits is presented.
 - Where detections were observed, only the detected results were added together for the total summation.
 - Analytes used for the calculation are 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.
 - Qualifiers are not included in the summation of the total.
- 1,3-Dichloropropene was calculated by Ramboll as follows:
 - Where no detections were observed, the sum of the reporting limits is presented.
 - Where detections were observed, the detected results were added together for the total summation.
 - cis-1,3-Dichloropropene and trans-1,3-Dichloropropene were used for the calculation.
 - Qualifiers are not included in the summation of the total.
- Total PCBs were calculated by Ramboll as follows:
 - Where no detections were observed, the highest level of detection is presented as the sum
 - Where detections were observed, the detected results were added together for the total summation.

Screening Levels:

PAL and ES from WI Administrative Code NR 140 groundwater quality standards are proposed for PFAS. (<https://www.dhs.wisconsin.gov/water/gws-cycle11.htm>) (https://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf)

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.



- MONITORING WELL
- PIEZOMETER
- TEMPORARY MONITORING POINT
- STORM WATER TUNNEL/LINE (APPROXIMATE) - FORMER SHERMAN CREEK
- PROPERTY BOUNDARY
- PARCEL BOUNDARY



SITE LAYOUT AND EXISTING MONITORING WELL NETWORK

FIGURE 1

FORMER MIRRO PLANT NO. 9
MANITOWOC, WISCONSIN

RAMBOLL US CONSULTING, INC.





ATTACHMENT B
LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Lindquist
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Generated 11/28/2022 7:32:43 AM

JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-224531-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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

Authorization



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Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Job ID: 500-224531-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-224531-1

Comments

No additional comments.

Receipt

The samples were received on 10/28/2022 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 4.8° C.

Receipt Exceptions

Received VOAs and Dissolved Metals bottles for sample 15 not marked on COC. Logged per client.

Received VOA bottles for sample 22 not marked on COC. Logged per client

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-226 DUP (500-224531-4). Sample 4, both PFAS containers missing DUP at end of container ID.

GC/MS VOA

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-121 (500-224531-19) and MW-121 DUP (500-224531-20). Elevated reporting limits (RLs) are provided.

Method 8260B: The matrix spike duplicate (MSD) for the following sample was analyzed outside the 12 hour tune window. No further action was taken. EB-11 (500-224531-22)

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

Metals

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

LCMS

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. MW-219 (500-224531-21)

Method 537 (modified): Results for sample MW-219 (500-224531-21) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. AMEC_MW-17 (500-224531-9)

Method 537 (modified): The closing continuing calibration verification (CCVC) associated with batch 320-633308 recovered above the upper control limit for 53B Minor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 537 (modified): Results for sample MW-219 (500-224531-21) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Results for samples AMEC_MW-16 (500-224531-18), MW-121 (500-224531-19) and MW-121 DUP (500-224531-20) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Job ID: 500-224531-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: EB-07 (500-224531-15). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

Field Service / Mobile Lab

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-628960.

Method code: 3535_PFC_28D

Matrix: Aqueous

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-628957.

Method: 3535_PFC

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628957 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. MW-226 (500-224531-3), MW-226 DUP (500-224531-4), MW-236 (500-224531-5), AMEC_MW-14 (500-224531-14), MW-121 (500-224531-19) and MW-121 DUP (500-224531-20).

Method: 3535_PFC

Matrix: Aqueous

Method 3535: During the solid phase extraction process, the following samples contained non-settable particulates which clogged the solid phase extraction column: MW-226 (500-224531-3), MW-226 DUP (500-224531-4), MW-236 (500-224531-5), AMEC_MW-14 (500-224531-14), MW-121 (500-224531-19) and MW-121 DUP (500-224531-20).

Method: 3535_PFC

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628957 were light yellow in color following concentration MW-121 (500-224531-19) and MW-121 DUP (500-224531-20).

Method: 3535_PFC

Matrix: Aqueous

Method 3535: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: FB-11 (500-224531-23).

preparation batch 320-628960

Method code: 3535_PFC_28D

Matrix: Aqueous

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

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: PZ-226

Lab Sample ID: 500-224531-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.4	J	4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.2	J	1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.7	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.0		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.57	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA

Client Sample ID: PZ-226 DUP

Lab Sample ID: 500-224531-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.5	J	4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.97	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.7	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.0		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.50	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.31	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-226

Lab Sample ID: 500-224531-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	13		4.9	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.1		2.0	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.1		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	11		2.0	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	200		2.0	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.3		2.0	0.20	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-226 DUP

Lab Sample ID: 500-224531-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	15		4.9	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.2		2.0	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.8		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	11		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	200		2.0	0.84	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.7	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-236

Lab Sample ID: 500-224531-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.5		4.3	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.4		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.6		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.3		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	100		1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.7	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EB-04

Lab Sample ID: 500-224531-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: FB-04

Lab Sample ID: 500-224531-8

No Detections.

Client Sample ID: AMEC_MW-17

Lab Sample ID: 500-224531-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.5		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.1		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.1		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.8		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	78		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.2	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.0	I	1.9	0.50	ng/L	1		537 (modified)	Total/NA
Antimony	18		3.0	1.3	ug/L	1		6020A	Dissolved

Client Sample ID: MW-235

Lab Sample ID: 500-224531-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.5		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.3		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.4		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.6		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	140		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.5		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.7	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA

Client Sample ID: AMEC_MW-15

Lab Sample ID: 500-224531-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.7		4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.5		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.5		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	9.1		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	300		1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	26		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.8		1.7	0.48	ng/L	1		537 (modified)	Total/NA

Client Sample ID: AMEC_MW-14

Lab Sample ID: 500-224531-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	11		4.9	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	8.5		2.0	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.7		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.5		2.0	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	120		2.0	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.34	J	2.0	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.7		2.0	0.56	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.1		2.0	0.53	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: EB-07

Lab Sample ID: 500-224531-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.3		0.50	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	0.42	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: FB-07

Lab Sample ID: 500-224531-16

No Detections.

Client Sample ID: AMEC_MW-16A

Lab Sample ID: 500-224531-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.88	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.3	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.3		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.56	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA

Client Sample ID: AMEC_MW-16

Lab Sample ID: 500-224531-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	15		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.7		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	20		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	65		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.72	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.74	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.1		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1000		9.6	4.1	ng/L	5		537 (modified)	Total/NA

Client Sample ID: MW-121

Lab Sample ID: 500-224531-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	110		0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	76		0.50	0.18	ug/L	1		8260B	Total/NA
Isopropylbenzene	46		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	140		1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	63		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	13		1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	9.1		1.0	0.40	ug/L	1		8260B	Total/NA
tert-Butylbenzene	0.93	J	1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.29	J	0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.31	J	0.50	0.16	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	82		1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	130		1.0	0.22	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	440		10	3.6	ug/L	10		8260B	Total/NA
Perfluorohexanoic acid (PFHxA)	29		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	84		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1000		18	7.5	ng/L	10		537 (modified)	Total/NA

Client Sample ID: MW-121 DUP

Lab Sample ID: 500-224531-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120		0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	80		0.50	0.18	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-121 DUP (Continued)

Lab Sample ID: 500-224531-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	48		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	150		1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	65		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	14		1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	9.6		1.0	0.40	ug/L	1		8260B	Total/NA
tert-Butylbenzene	1.2		1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.21	J	0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.23	J	0.50	0.16	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	87		1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	140		1.0	0.22	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	430		10	3.6	ug/L	10		8260B	Total/NA
Perfluoropentanoic acid (PFPeA)	11		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	30		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	81		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	910		9.2	3.9	ng/L	5		537 (modified)	Total/NA

Client Sample ID: MW-219

Lab Sample ID: 500-224531-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.60	J	1.0	0.34	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.36	J	1.0	0.36	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	12		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	8.8		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	38		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	87		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.7	J I	2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1100		20	8.5	ng/L	10		537 (modified)	Total/NA

Client Sample ID: EB-11

Lab Sample ID: 500-224531-22

No Detections.

Client Sample ID: FB-11

Lab Sample ID: 500-224531-23

No Detections.

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 500-224531-24

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
6020A	Metals (ICP/MS)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-224531-1	PZ-226	Water	10/25/22 08:53	10/28/22 10:10
500-224531-2	PZ-226 DUP	Water	10/25/22 08:58	10/28/22 10:10
500-224531-3	MW-226	Water	10/25/22 10:45	10/28/22 10:10
500-224531-4	MW-226 DUP	Water	10/25/22 10:50	10/28/22 10:10
500-224531-5	MW-236	Water	10/25/22 14:55	10/28/22 10:10
500-224531-7	EB-04	Water	10/25/22 16:30	10/28/22 10:10
500-224531-8	FB-04	Water	10/25/22 16:35	10/28/22 10:10
500-224531-9	AMEC_MW-17	Water	10/26/22 08:47	10/28/22 10:10
500-224531-12	MW-235	Water	10/26/22 13:18	10/28/22 10:10
500-224531-13	AMEC_MW-15	Water	10/26/22 14:56	10/28/22 10:10
500-224531-14	AMEC_MW-14	Water	10/26/22 16:28	10/28/22 10:10
500-224531-15	EB-07	Water	10/26/22 16:50	10/28/22 10:10
500-224531-16	FB-07	Water	10/26/22 16:55	10/28/22 10:10
500-224531-17	AMEC_MW-16A	Water	10/27/22 08:18	10/28/22 10:10
500-224531-18	AMEC_MW-16	Water	10/27/22 09:10	10/28/22 10:10
500-224531-19	MW-121	Water	10/27/22 10:06	10/28/22 10:10
500-224531-20	MW-121 DUP	Water	10/27/22 10:11	10/28/22 10:10
500-224531-21	MW-219	Water	10/27/22 11:01	10/28/22 10:10
500-224531-22	EB-11	Water	10/27/22 11:20	10/28/22 10:10
500-224531-23	FB-11	Water	10/27/22 11:25	10/28/22 10:10
500-224531-24	TRIP BLANK 1	Water	10/25/22 00:00	10/28/22 10:10



Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: PZ-226

Lab Sample ID: 500-224531-1

Date Collected: 10/25/22 08:53

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.4	J	4.6	2.2	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluoropentanoic acid (PFPeA)	1.2	J	1.9	0.45	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorohexanoic acid (PFHxA)	1.7	J	1.9	0.54	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.9	0.23	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorooctanoic acid (PFOA)	4.0		1.9	0.79	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorononanoic acid (PFNA)	0.57	J	1.9	0.25	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 04:39	11/16/22 13:26	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 04:39	11/16/22 13:26	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:39	11/16/22 13:26	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:39	11/16/22 13:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 04:39	11/16/22 13:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 04:39	11/16/22 13:26	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:39	11/16/22 13:26	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:39	11/16/22 13:26	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:39	11/16/22 13:26	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 04:39	11/16/22 13:26	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:39	11/16/22 13:26	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:39	11/16/22 13:26	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:39	11/16/22 13:26	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:39	11/16/22 13:26	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 13:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C5 PFPeA	101		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C2 PFHxA	115		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C4 PFHpA	107		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C4 PFOA	101		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C5 PFNA	95		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C2 PFDA	102		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C2 PFUnA	93		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C2 PFDoA	99		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C2 PFTeDA	94		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C3 PFBS	125		25 - 150	10/31/22 04:39	11/16/22 13:26	1

Euofins Chicago

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: PZ-226
Date Collected: 10/25/22 08:53
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-1
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	108		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C4 PFOS	92		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C8 FOSA	98		10 - 150	10/31/22 04:39	11/16/22 13:26	1
d3-NMeFOSAA	66		25 - 150	10/31/22 04:39	11/16/22 13:26	1
d5-NEtFOSAA	76		25 - 150	10/31/22 04:39	11/16/22 13:26	1
d-N-MeFOSA-M	86		10 - 150	10/31/22 04:39	11/16/22 13:26	1
d-N-EtFOSA-M	83		10 - 150	10/31/22 04:39	11/16/22 13:26	1
d7-N-MeFOSE-M	82		10 - 150	10/31/22 04:39	11/16/22 13:26	1
d9-N-EtFOSE-M	89		10 - 150	10/31/22 04:39	11/16/22 13:26	1
M2-4:2 FTS	111		25 - 150	10/31/22 04:39	11/16/22 13:26	1
M2-6:2 FTS	78		25 - 150	10/31/22 04:39	11/16/22 13:26	1
M2-8:2 FTS	93		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C3 HFPO-DA	117		25 - 150	10/31/22 04:39	11/16/22 13:26	1
13C2 10:2 FTS	104		25 - 150	10/31/22 04:39	11/16/22 13:26	1



Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: PZ-226 DUP

Lab Sample ID: 500-224531-2

Date Collected: 10/25/22 08:58

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.5	J	4.4	2.1	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluoropentanoic acid (PFPeA)	0.97	J	1.8	0.43	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorohexanoic acid (PFHxA)	1.7	J	1.8	0.51	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.8	0.22	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorooctanoic acid (PFOA)	4.0		1.8	0.75	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorononanoic acid (PFNA)	0.50	J	1.8	0.24	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorodecanoic acid (PFDA)	0.31	J	1.8	0.28	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		10/31/22 04:39	11/16/22 13:36	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		10/31/22 04:39	11/16/22 13:36	1
NEtFOSA	<0.77		1.8	0.77	ng/L		10/31/22 04:39	11/16/22 13:36	1
NMeFOSA	<0.38		1.8	0.38	ng/L		10/31/22 04:39	11/16/22 13:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.4	1.1	ng/L		10/31/22 04:39	11/16/22 13:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.4	1.2	ng/L		10/31/22 04:39	11/16/22 13:36	1
NMeFOSE	<1.2		3.5	1.2	ng/L		10/31/22 04:39	11/16/22 13:36	1
NEtFOSE	<0.75		1.8	0.75	ng/L		10/31/22 04:39	11/16/22 13:36	1
4:2 FTS	<0.21		1.8	0.21	ng/L		10/31/22 04:39	11/16/22 13:36	1
6:2 FTS	<2.2		4.4	2.2	ng/L		10/31/22 04:39	11/16/22 13:36	1
8:2 FTS	<0.41		1.8	0.41	ng/L		10/31/22 04:39	11/16/22 13:36	1
DONA	<0.35		1.8	0.35	ng/L		10/31/22 04:39	11/16/22 13:36	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		10/31/22 04:39	11/16/22 13:36	1
F-53B Major	<0.21		1.8	0.21	ng/L		10/31/22 04:39	11/16/22 13:36	1
F-53B Minor	<0.28		1.8	0.28	ng/L		10/31/22 04:39	11/16/22 13:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	86		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C5 PFPeA	99		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C2 PFHxA	107		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C4 PFHpA	87		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C4 PFOA	94		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C5 PFNA	86		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C2 PFDA	93		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C2 PFUnA	84		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C2 PFDoA	82		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C2 PFTeDA	72		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C3 PFBS	107		25 - 150	10/31/22 04:39	11/16/22 13:36	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: PZ-226 DUP

Lab Sample ID: 500-224531-2

Date Collected: 10/25/22 08:58

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	97		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C4 PFOS	83		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C8 FOSA	93		10 - 150	10/31/22 04:39	11/16/22 13:36	1
d3-NMeFOSAA	59		25 - 150	10/31/22 04:39	11/16/22 13:36	1
d5-NEtFOSAA	66		25 - 150	10/31/22 04:39	11/16/22 13:36	1
d-N-MeFOSA-M	72		10 - 150	10/31/22 04:39	11/16/22 13:36	1
d-N-EtFOSA-M	66		10 - 150	10/31/22 04:39	11/16/22 13:36	1
d7-N-MeFOSE-M	69		10 - 150	10/31/22 04:39	11/16/22 13:36	1
d9-N-EtFOSE-M	72		10 - 150	10/31/22 04:39	11/16/22 13:36	1
M2-4:2 FTS	106		25 - 150	10/31/22 04:39	11/16/22 13:36	1
M2-6:2 FTS	85		25 - 150	10/31/22 04:39	11/16/22 13:36	1
M2-8:2 FTS	81		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C3 HFPO-DA	115		25 - 150	10/31/22 04:39	11/16/22 13:36	1
13C2 10:2 FTS	86		25 - 150	10/31/22 04:39	11/16/22 13:36	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-226

Lab Sample ID: 500-224531-3

Date Collected: 10/25/22 10:45

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	13		4.9	2.3	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluoropentanoic acid (PFPeA)	7.1		2.0	0.48	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorohexanoic acid (PFHxA)	8.1		2.0	0.57	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluoroheptanoic acid (PFHpA)	11		2.0	0.24	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorooctanoic acid (PFOA)	200		2.0	0.83	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorononanoic acid (PFNA)	<0.26		2.0	0.26	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		2.0	0.71	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorobutanesulfonic acid (PFBS)	2.3		2.0	0.20	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		2.0	0.29	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		10/31/22 04:39	11/16/22 13:46	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		10/31/22 04:39	11/16/22 13:46	1
NEtFOSA	<0.85		2.0	0.85	ng/L		10/31/22 04:39	11/16/22 13:46	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/31/22 04:39	11/16/22 13:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		10/31/22 04:39	11/16/22 13:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		10/31/22 04:39	11/16/22 13:46	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/31/22 04:39	11/16/22 13:46	1
NEtFOSE	<0.83		2.0	0.83	ng/L		10/31/22 04:39	11/16/22 13:46	1
4:2 FTS	<0.23		2.0	0.23	ng/L		10/31/22 04:39	11/16/22 13:46	1
6:2 FTS	<2.4		4.9	2.4	ng/L		10/31/22 04:39	11/16/22 13:46	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/31/22 04:39	11/16/22 13:46	1
DONA	<0.39		2.0	0.39	ng/L		10/31/22 04:39	11/16/22 13:46	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/31/22 04:39	11/16/22 13:46	1
F-53B Major	<0.23		2.0	0.23	ng/L		10/31/22 04:39	11/16/22 13:46	1
F-53B Minor	<0.31		2.0	0.31	ng/L		10/31/22 04:39	11/16/22 13:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	66		25 - 150				10/31/22 04:39	11/16/22 13:46	1
13C5 PFPeA	81		25 - 150				10/31/22 04:39	11/16/22 13:46	1
13C2 PFHxA	97		25 - 150				10/31/22 04:39	11/16/22 13:46	1
13C4 PFHpA	96		25 - 150				10/31/22 04:39	11/16/22 13:46	1
13C4 PFOA	88		25 - 150				10/31/22 04:39	11/16/22 13:46	1
13C5 PFNA	91		25 - 150				10/31/22 04:39	11/16/22 13:46	1
13C2 PFDA	97		25 - 150				10/31/22 04:39	11/16/22 13:46	1
13C2 PFUnA	94		25 - 150				10/31/22 04:39	11/16/22 13:46	1
13C2 PFDoA	100		25 - 150				10/31/22 04:39	11/16/22 13:46	1
13C2 PFTeDA	97		25 - 150				10/31/22 04:39	11/16/22 13:46	1
13C3 PFBS	109		25 - 150				10/31/22 04:39	11/16/22 13:46	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-226

Lab Sample ID: 500-224531-3

Date Collected: 10/25/22 10:45

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	95		25 - 150	10/31/22 04:39	11/16/22 13:46	1
13C4 PFOS	90		25 - 150	10/31/22 04:39	11/16/22 13:46	1
13C8 FOSA	97		10 - 150	10/31/22 04:39	11/16/22 13:46	1
d3-NMeFOSAA	73		25 - 150	10/31/22 04:39	11/16/22 13:46	1
d5-NEtFOSAA	84		25 - 150	10/31/22 04:39	11/16/22 13:46	1
d-N-MeFOSA-M	84		10 - 150	10/31/22 04:39	11/16/22 13:46	1
d-N-EtFOSA-M	86		10 - 150	10/31/22 04:39	11/16/22 13:46	1
d7-N-MeFOSE-M	86		10 - 150	10/31/22 04:39	11/16/22 13:46	1
d9-N-EtFOSE-M	90		10 - 150	10/31/22 04:39	11/16/22 13:46	1
M2-4:2 FTS	107		25 - 150	10/31/22 04:39	11/16/22 13:46	1
M2-6:2 FTS	114		25 - 150	10/31/22 04:39	11/16/22 13:46	1
M2-8:2 FTS	116		25 - 150	10/31/22 04:39	11/16/22 13:46	1
13C3 HFPO-DA	91		25 - 150	10/31/22 04:39	11/16/22 13:46	1
13C2 10:2 FTS	113		25 - 150	10/31/22 04:39	11/16/22 13:46	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-226 DUP

Lab Sample ID: 500-224531-4

Date Collected: 10/25/22 10:50

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	15		4.9	2.4	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluoropentanoic acid (PFPeA)	6.2		2.0	0.48	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorohexanoic acid (PFHxA)	8.8		2.0	0.57	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluoroheptanoic acid (PFHpA)	11		2.0	0.25	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorooctanoic acid (PFOA)	200		2.0	0.84	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorobutanesulfonic acid (PFBS)	1.7 J		2.0	0.20	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		10/31/22 04:39	11/16/22 13:56	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		10/31/22 04:39	11/16/22 13:56	1
NEtFOSA	<0.86		2.0	0.86	ng/L		10/31/22 04:39	11/16/22 13:56	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/31/22 04:39	11/16/22 13:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		10/31/22 04:39	11/16/22 13:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		10/31/22 04:39	11/16/22 13:56	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/31/22 04:39	11/16/22 13:56	1
NEtFOSE	<0.84		2.0	0.84	ng/L		10/31/22 04:39	11/16/22 13:56	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:39	11/16/22 13:56	1
6:2 FTS	<2.5		4.9	2.5	ng/L		10/31/22 04:39	11/16/22 13:56	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/31/22 04:39	11/16/22 13:56	1
DONA	<0.39		2.0	0.39	ng/L		10/31/22 04:39	11/16/22 13:56	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/31/22 04:39	11/16/22 13:56	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:39	11/16/22 13:56	1
F-53B Minor	<0.31		2.0	0.31	ng/L		10/31/22 04:39	11/16/22 13:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	71		25 - 150				10/31/22 04:39	11/16/22 13:56	1
13C5 PFPeA	100		25 - 150				10/31/22 04:39	11/16/22 13:56	1
13C2 PFHxA	105		25 - 150				10/31/22 04:39	11/16/22 13:56	1
13C4 PFHpA	97		25 - 150				10/31/22 04:39	11/16/22 13:56	1
13C4 PFOA	95		25 - 150				10/31/22 04:39	11/16/22 13:56	1
13C5 PFNA	93		25 - 150				10/31/22 04:39	11/16/22 13:56	1
13C2 PFDA	102		25 - 150				10/31/22 04:39	11/16/22 13:56	1
13C2 PFUnA	100		25 - 150				10/31/22 04:39	11/16/22 13:56	1
13C2 PFDoA	98		25 - 150				10/31/22 04:39	11/16/22 13:56	1
13C2 PFTeDA	102		25 - 150				10/31/22 04:39	11/16/22 13:56	1
13C3 PFBS	114		25 - 150				10/31/22 04:39	11/16/22 13:56	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-226 DUP

Lab Sample ID: 500-224531-4

Date Collected: 10/25/22 10:50

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	103		25 - 150	10/31/22 04:39	11/16/22 13:56	1
13C4 PFOS	92		25 - 150	10/31/22 04:39	11/16/22 13:56	1
13C8 FOSA	101		10 - 150	10/31/22 04:39	11/16/22 13:56	1
d3-NMeFOSAA	71		25 - 150	10/31/22 04:39	11/16/22 13:56	1
d5-NEtFOSAA	83		25 - 150	10/31/22 04:39	11/16/22 13:56	1
d-N-MeFOSA-M	82		10 - 150	10/31/22 04:39	11/16/22 13:56	1
d-N-EtFOSA-M	90		10 - 150	10/31/22 04:39	11/16/22 13:56	1
d7-N-MeFOSE-M	89		10 - 150	10/31/22 04:39	11/16/22 13:56	1
d9-N-EtFOSE-M	97		10 - 150	10/31/22 04:39	11/16/22 13:56	1
M2-4:2 FTS	113		25 - 150	10/31/22 04:39	11/16/22 13:56	1
M2-6:2 FTS	114		25 - 150	10/31/22 04:39	11/16/22 13:56	1
M2-8:2 FTS	115		25 - 150	10/31/22 04:39	11/16/22 13:56	1
13C3 HFPO-DA	107		25 - 150	10/31/22 04:39	11/16/22 13:56	1
13C2 10:2 FTS	113		25 - 150	10/31/22 04:39	11/16/22 13:56	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-236

Lab Sample ID: 500-224531-5

Date Collected: 10/25/22 14:55

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.5		4.3	2.0	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluoropentanoic acid (PFPeA)	2.4		1.7	0.42	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorohexanoic acid (PFHxA)	4.6		1.7	0.49	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluoroheptanoic acid (PFHpA)	6.3		1.7	0.21	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorooctanoic acid (PFOA)	100		1.7	0.72	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorotridecanoic acid (PFTriA)	<1.1		1.7	1.1	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorobutanesulfonic acid (PFBS)	2.4		1.7	0.17	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorohexanesulfonic acid (PFHxS)	1.4 J		1.7	0.49	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		10/31/22 04:39	11/16/22 14:06	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		10/31/22 04:39	11/16/22 14:06	1
NEtFOSA	<0.74		1.7	0.74	ng/L		10/31/22 04:39	11/16/22 14:06	1
NMeFOSA	<0.37		1.7	0.37	ng/L		10/31/22 04:39	11/16/22 14:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.0		4.3	1.0	ng/L		10/31/22 04:39	11/16/22 14:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.1		4.3	1.1	ng/L		10/31/22 04:39	11/16/22 14:06	1
NMeFOSE	<1.2		3.4	1.2	ng/L		10/31/22 04:39	11/16/22 14:06	1
NEtFOSE	<0.72		1.7	0.72	ng/L		10/31/22 04:39	11/16/22 14:06	1
4:2 FTS	<0.20		1.7	0.20	ng/L		10/31/22 04:39	11/16/22 14:06	1
6:2 FTS	<2.1		4.3	2.1	ng/L		10/31/22 04:39	11/16/22 14:06	1
8:2 FTS	<0.39		1.7	0.39	ng/L		10/31/22 04:39	11/16/22 14:06	1
DONA	<0.34		1.7	0.34	ng/L		10/31/22 04:39	11/16/22 14:06	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		10/31/22 04:39	11/16/22 14:06	1
F-53B Major	<0.20		1.7	0.20	ng/L		10/31/22 04:39	11/16/22 14:06	1
F-53B Minor	<0.27		1.7	0.27	ng/L		10/31/22 04:39	11/16/22 14:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	76		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C5 PFPeA	105		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C2 PFHxA	100		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C4 PFHpA	107		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C4 PFOA	97		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C5 PFNA	97		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C2 PFDA	108		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C2 PFUnA	100		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C2 PFDoA	94		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C2 PFTeDA	94		25 - 150	10/31/22 04:39	11/16/22 14:06	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-236

Lab Sample ID: 500-224531-5

Date Collected: 10/25/22 14:55

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	110		25 - 150	10/31/22 04:39	11/16/22 14:06	1
18O2 PFHxS	106		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C4 PFOS	96		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C8 FOSA	103		10 - 150	10/31/22 04:39	11/16/22 14:06	1
d3-NMeFOSAA	73		25 - 150	10/31/22 04:39	11/16/22 14:06	1
d5-NEtFOSAA	84		25 - 150	10/31/22 04:39	11/16/22 14:06	1
d-N-MeFOSA-M	86		10 - 150	10/31/22 04:39	11/16/22 14:06	1
d-N-EtFOSA-M	89		10 - 150	10/31/22 04:39	11/16/22 14:06	1
d7-N-MeFOSE-M	92		10 - 150	10/31/22 04:39	11/16/22 14:06	1
d9-N-EtFOSE-M	96		10 - 150	10/31/22 04:39	11/16/22 14:06	1
M2-4:2 FTS	115		25 - 150	10/31/22 04:39	11/16/22 14:06	1
M2-6:2 FTS	101		25 - 150	10/31/22 04:39	11/16/22 14:06	1
M2-8:2 FTS	108		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C3 HFPO-DA	111		25 - 150	10/31/22 04:39	11/16/22 14:06	1
13C2 10:2 FTS	149		25 - 150	10/31/22 04:39	11/16/22 14:06	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: EB-04
Date Collected: 10/25/22 16:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-7
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorooctanoic acid (PFOA)	<0.80		1.9	0.80	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/31/22 04:39	11/16/22 14:26	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/31/22 04:39	11/16/22 14:26	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/31/22 04:39	11/16/22 14:26	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:39	11/16/22 14:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:39	11/16/22 14:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:39	11/16/22 14:26	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:39	11/16/22 14:26	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/31/22 04:39	11/16/22 14:26	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 14:26	1
6:2 FTS	<2.4		4.7	2.4	ng/L		10/31/22 04:39	11/16/22 14:26	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:39	11/16/22 14:26	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:39	11/16/22 14:26	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:39	11/16/22 14:26	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 14:26	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 14:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	120		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C5 PFPeA	115		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C2 PFHxA	119		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C4 PFHpA	104		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C4 PFOA	98		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C5 PFNA	100		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C2 PFDA	108		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C2 PFUnA	107		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C2 PFDoA	100		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C2 PFTeDA	94		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C3 PFBS	123		25 - 150	10/31/22 04:39	11/16/22 14:26	1

Eurofins Chicago

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: EB-04
Date Collected: 10/25/22 16:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-7
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	109		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C4 PFOS	100		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C8 FOSA	104		10 - 150	10/31/22 04:39	11/16/22 14:26	1
d3-NMeFOSAA	73		25 - 150	10/31/22 04:39	11/16/22 14:26	1
d5-NEtFOSAA	81		25 - 150	10/31/22 04:39	11/16/22 14:26	1
d-N-MeFOSA-M	84		10 - 150	10/31/22 04:39	11/16/22 14:26	1
d-N-EtFOSA-M	94		10 - 150	10/31/22 04:39	11/16/22 14:26	1
d7-N-MeFOSE-M	92		10 - 150	10/31/22 04:39	11/16/22 14:26	1
d9-N-EtFOSE-M	104		10 - 150	10/31/22 04:39	11/16/22 14:26	1
M2-4:2 FTS	117		25 - 150	10/31/22 04:39	11/16/22 14:26	1
M2-6:2 FTS	95		25 - 150	10/31/22 04:39	11/16/22 14:26	1
M2-8:2 FTS	103		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C3 HFPO-DA	117		25 - 150	10/31/22 04:39	11/16/22 14:26	1
13C2 10:2 FTS	115		25 - 150	10/31/22 04:39	11/16/22 14:26	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: FB-04
Date Collected: 10/25/22 16:35
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-8
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorooctanoic acid (PFOA)	<0.81		1.9	0.81	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/31/22 04:39	11/16/22 15:07	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		10/31/22 04:39	11/16/22 15:07	1
NEtFOSA	<0.83		1.9	0.83	ng/L		10/31/22 04:39	11/16/22 15:07	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:39	11/16/22 15:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		10/31/22 04:39	11/16/22 15:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:39	11/16/22 15:07	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:39	11/16/22 15:07	1
NEtFOSE	<0.81		1.9	0.81	ng/L		10/31/22 04:39	11/16/22 15:07	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 15:07	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:39	11/16/22 15:07	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:39	11/16/22 15:07	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:39	11/16/22 15:07	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:39	11/16/22 15:07	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 15:07	1
F-53B Minor	<0.31		1.9	0.31	ng/L		10/31/22 04:39	11/16/22 15:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	120		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C5 PFPeA	107		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C2 PFHxA	107		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C4 PFHpA	108		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C4 PFOA	99		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C5 PFNA	100		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C2 PFDA	108		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C2 PFUnA	103		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C2 PFDoA	97		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C2 PFTeDA	90		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C3 PFBS	118		25 - 150	10/31/22 04:39	11/16/22 15:07	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: FB-04
Date Collected: 10/25/22 16:35
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-8
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	103		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C4 PFOS	89		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C8 FOSA	99		10 - 150	10/31/22 04:39	11/16/22 15:07	1
d3-NMeFOSAA	76		25 - 150	10/31/22 04:39	11/16/22 15:07	1
d5-NEtFOSAA	88		25 - 150	10/31/22 04:39	11/16/22 15:07	1
d-N-MeFOSA-M	79		10 - 150	10/31/22 04:39	11/16/22 15:07	1
d-N-EtFOSA-M	90		10 - 150	10/31/22 04:39	11/16/22 15:07	1
d7-N-MeFOSE-M	90		10 - 150	10/31/22 04:39	11/16/22 15:07	1
d9-N-EtFOSE-M	96		10 - 150	10/31/22 04:39	11/16/22 15:07	1
M2-4:2 FTS	112		25 - 150	10/31/22 04:39	11/16/22 15:07	1
M2-6:2 FTS	92		25 - 150	10/31/22 04:39	11/16/22 15:07	1
M2-8:2 FTS	92		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C3 HFPO-DA	120		25 - 150	10/31/22 04:39	11/16/22 15:07	1
13C2 10:2 FTS	101		25 - 150	10/31/22 04:39	11/16/22 15:07	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: AMEC_MW-17

Lab Sample ID: 500-224531-9

Date Collected: 10/26/22 08:47

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.5		4.7	2.2	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluoropentanoic acid (PFPeA)	2.1		1.9	0.46	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorohexanoic acid (PFHxA)	2.1		1.9	0.54	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluoroheptanoic acid (PFHpA)	3.8		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorooctanoic acid (PFOA)	78		1.9	0.79	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorononanoic acid (PFNA)	1.2	J	1.9	0.25	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorobutanesulfonic acid (PFBS)	1.9		1.9	0.19	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.9	0.53	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorooctanesulfonic acid (PFOS)	3.0	I	1.9	0.50	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/31/22 04:39	11/16/22 15:17	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/31/22 04:39	11/16/22 15:17	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:39	11/16/22 15:17	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:39	11/16/22 15:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:39	11/16/22 15:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:39	11/16/22 15:17	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:39	11/16/22 15:17	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:39	11/16/22 15:17	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:39	11/16/22 15:17	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/31/22 04:39	11/16/22 15:17	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:39	11/16/22 15:17	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:39	11/16/22 15:17	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:39	11/16/22 15:17	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:39	11/16/22 15:17	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 15:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	110		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C5 PFPeA	118		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C2 PFHxA	122		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C4 PFHpA	121		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C4 PFOA	108		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C5 PFNA	103		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C2 PFDA	114		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C2 PFUnA	109		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C2 PFDoA	106		25 - 150	10/31/22 04:39	11/16/22 15:17	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: AMEC_MW-17

Lab Sample ID: 500-224531-9

Date Collected: 10/26/22 08:47

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFTeDA	99		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C3 PFBS	138		25 - 150	10/31/22 04:39	11/16/22 15:17	1
18O2 PFHxS	106		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C4 PFOS	99		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C8 FOSA	118		10 - 150	10/31/22 04:39	11/16/22 15:17	1
d3-NMeFOSAA	80		25 - 150	10/31/22 04:39	11/16/22 15:17	1
d5-NEtFOSAA	98		25 - 150	10/31/22 04:39	11/16/22 15:17	1
d-N-MeFOSA-M	89		10 - 150	10/31/22 04:39	11/16/22 15:17	1
d-N-EtFOSA-M	89		10 - 150	10/31/22 04:39	11/16/22 15:17	1
d7-N-MeFOSE-M	90		10 - 150	10/31/22 04:39	11/16/22 15:17	1
d9-N-EtFOSE-M	96		10 - 150	10/31/22 04:39	11/16/22 15:17	1
M2-4:2 FTS	117		25 - 150	10/31/22 04:39	11/16/22 15:17	1
M2-6:2 FTS	92		25 - 150	10/31/22 04:39	11/16/22 15:17	1
M2-8:2 FTS	102		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C3 HFPO-DA	134		25 - 150	10/31/22 04:39	11/16/22 15:17	1
13C2 10:2 FTS	120		25 - 150	10/31/22 04:39	11/16/22 15:17	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Antimony	18		3.0	1.3	ug/L		11/17/22 08:46	11/18/22 14:29	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-235

Lab Sample ID: 500-224531-12

Date Collected: 10/26/22 13:18

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.5		4.7	2.2	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluoropentanoic acid (PFPeA)	2.3		1.9	0.46	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorohexanoic acid (PFHxA)	6.4		1.9	0.54	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluoroheptanoic acid (PFHpA)	7.6		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorooctanoic acid (PFOA)	140		1.9	0.79	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorobutanesulfonic acid (PFBS)	2.5		1.9	0.19	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorohexanesulfonic acid (PFHxS)	1.7 J		1.9	0.53	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 04:39	11/16/22 15:48	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 04:39	11/16/22 15:48	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:39	11/16/22 15:48	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:39	11/16/22 15:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:39	11/16/22 15:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:39	11/16/22 15:48	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:39	11/16/22 15:48	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:39	11/16/22 15:48	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:39	11/16/22 15:48	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/31/22 04:39	11/16/22 15:48	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:39	11/16/22 15:48	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:39	11/16/22 15:48	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:39	11/16/22 15:48	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:39	11/16/22 15:48	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 15:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150				10/31/22 04:39	11/16/22 15:48	1
13C5 PFPeA	111		25 - 150				10/31/22 04:39	11/16/22 15:48	1
13C2 PFHxA	114		25 - 150				10/31/22 04:39	11/16/22 15:48	1
13C4 PFHpA	100		25 - 150				10/31/22 04:39	11/16/22 15:48	1
13C4 PFOA	100		25 - 150				10/31/22 04:39	11/16/22 15:48	1
13C5 PFNA	107		25 - 150				10/31/22 04:39	11/16/22 15:48	1
13C2 PFDA	114		25 - 150				10/31/22 04:39	11/16/22 15:48	1
13C2 PFUnA	109		25 - 150				10/31/22 04:39	11/16/22 15:48	1
13C2 PFDoA	107		25 - 150				10/31/22 04:39	11/16/22 15:48	1
13C2 PFTeDA	87		25 - 150				10/31/22 04:39	11/16/22 15:48	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-235

Lab Sample ID: 500-224531-12

Date Collected: 10/26/22 13:18

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	126		25 - 150	10/31/22 04:39	11/16/22 15:48	1
18O2 PFHxS	108		25 - 150	10/31/22 04:39	11/16/22 15:48	1
13C4 PFOS	95		25 - 150	10/31/22 04:39	11/16/22 15:48	1
13C8 FOSA	116		10 - 150	10/31/22 04:39	11/16/22 15:48	1
d3-NMeFOSAA	83		25 - 150	10/31/22 04:39	11/16/22 15:48	1
d5-NEtFOSAA	94		25 - 150	10/31/22 04:39	11/16/22 15:48	1
d-N-MeFOSA-M	97		10 - 150	10/31/22 04:39	11/16/22 15:48	1
d-N-EtFOSA-M	89		10 - 150	10/31/22 04:39	11/16/22 15:48	1
d7-N-MeFOSE-M	94		10 - 150	10/31/22 04:39	11/16/22 15:48	1
d9-N-EtFOSE-M	93		10 - 150	10/31/22 04:39	11/16/22 15:48	1
M2-4:2 FTS	123		25 - 150	10/31/22 04:39	11/16/22 15:48	1
M2-6:2 FTS	96		25 - 150	10/31/22 04:39	11/16/22 15:48	1
M2-8:2 FTS	118		25 - 150	10/31/22 04:39	11/16/22 15:48	1
13C3 HFPO-DA	111		25 - 150	10/31/22 04:39	11/16/22 15:48	1
13C2 10:2 FTS	143		25 - 150	10/31/22 04:39	11/16/22 15:48	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: AMEC_MW-15

Lab Sample ID: 500-224531-13

Date Collected: 10/26/22 14:56

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.7		4.2	2.0	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluoropentanoic acid (PFPeA)	3.5		1.7	0.41	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorohexanoic acid (PFHxA)	5.5		1.7	0.49	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluoroheptanoic acid (PFHpA)	9.1		1.7	0.21	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorooctanoic acid (PFOA)	300		1.7	0.72	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorododecanoic acid (PFDoA)	<0.46		1.7	0.46	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorotridecanoic acid (PFTriA)	<1.1		1.7	1.1	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorobutanesulfonic acid (PFBS)	26		1.7	0.17	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorohexanesulfonic acid (PFHxS)	3.8		1.7	0.48	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82		1.7	0.82	ng/L		10/31/22 04:39	11/16/22 15:58	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		10/31/22 04:39	11/16/22 15:58	1
NEtFOSA	<0.73		1.7	0.73	ng/L		10/31/22 04:39	11/16/22 15:58	1
NMeFOSA	<0.36		1.7	0.36	ng/L		10/31/22 04:39	11/16/22 15:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.0		4.2	1.0	ng/L		10/31/22 04:39	11/16/22 15:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.1		4.2	1.1	ng/L		10/31/22 04:39	11/16/22 15:58	1
NMeFOSE	<1.2		3.4	1.2	ng/L		10/31/22 04:39	11/16/22 15:58	1
NEtFOSE	<0.72		1.7	0.72	ng/L		10/31/22 04:39	11/16/22 15:58	1
4:2 FTS	<0.20		1.7	0.20	ng/L		10/31/22 04:39	11/16/22 15:58	1
6:2 FTS	<2.1		4.2	2.1	ng/L		10/31/22 04:39	11/16/22 15:58	1
8:2 FTS	<0.39		1.7	0.39	ng/L		10/31/22 04:39	11/16/22 15:58	1
DONA	<0.34		1.7	0.34	ng/L		10/31/22 04:39	11/16/22 15:58	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		10/31/22 04:39	11/16/22 15:58	1
F-53B Major	<0.20		1.7	0.20	ng/L		10/31/22 04:39	11/16/22 15:58	1
F-53B Minor	<0.27		1.7	0.27	ng/L		10/31/22 04:39	11/16/22 15:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C5 PFPeA	123		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C2 PFHxA	128		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C4 PFHpA	107		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C4 PFOA	94		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C5 PFNA	99		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C2 PFDA	118		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C2 PFUnA	112		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C2 PFDoA	112		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C2 PFTeDA	89		25 - 150	10/31/22 04:39	11/16/22 15:58	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: AMEC_MW-15

Lab Sample ID: 500-224531-13

Date Collected: 10/26/22 14:56

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	133		25 - 150	10/31/22 04:39	11/16/22 15:58	1
18O2 PFHxS	99		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C4 PFOS	96		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C8 FOSA	115		10 - 150	10/31/22 04:39	11/16/22 15:58	1
d3-NMeFOSAA	80		25 - 150	10/31/22 04:39	11/16/22 15:58	1
d5-NEtFOSAA	93		25 - 150	10/31/22 04:39	11/16/22 15:58	1
d-N-MeFOSA-M	92		10 - 150	10/31/22 04:39	11/16/22 15:58	1
d-N-EtFOSA-M	87		10 - 150	10/31/22 04:39	11/16/22 15:58	1
d7-N-MeFOSE-M	98		10 - 150	10/31/22 04:39	11/16/22 15:58	1
d9-N-EtFOSE-M	93		10 - 150	10/31/22 04:39	11/16/22 15:58	1
M2-4:2 FTS	148		25 - 150	10/31/22 04:39	11/16/22 15:58	1
M2-6:2 FTS	91		25 - 150	10/31/22 04:39	11/16/22 15:58	1
M2-8:2 FTS	114		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C3 HFPO-DA	123		25 - 150	10/31/22 04:39	11/16/22 15:58	1
13C2 10:2 FTS	132		25 - 150	10/31/22 04:39	11/16/22 15:58	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: AMEC_MW-14

Lab Sample ID: 500-224531-14

Date Collected: 10/26/22 16:28

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	11		4.9	2.3	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluoropentanoic acid (PFPeA)	8.5		2.0	0.48	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorohexanoic acid (PFHxA)	6.7		2.0	0.57	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluoroheptanoic acid (PFHpA)	4.5		2.0	0.24	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorooctanoic acid (PFOA)	120		2.0	0.83	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorononanoic acid (PFNA)	<0.26		2.0	0.26	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		2.0	0.71	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorobutanesulfonic acid (PFBS)	2.7		2.0	0.20	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluoropentanesulfonic acid (PFPeS)	0.34 J		2.0	0.29	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorohexanesulfonic acid (PFHxS)	3.7		2.0	0.56	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorooctanesulfonic acid (PFOS)	4.1		2.0	0.53	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		10/31/22 04:39	11/16/22 16:08	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		10/31/22 04:39	11/16/22 16:08	1
NEtFOSA	<0.85		2.0	0.85	ng/L		10/31/22 04:39	11/16/22 16:08	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/31/22 04:39	11/16/22 16:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		10/31/22 04:39	11/16/22 16:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		10/31/22 04:39	11/16/22 16:08	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/31/22 04:39	11/16/22 16:08	1
NEtFOSE	<0.83		2.0	0.83	ng/L		10/31/22 04:39	11/16/22 16:08	1
4:2 FTS	<0.23		2.0	0.23	ng/L		10/31/22 04:39	11/16/22 16:08	1
6:2 FTS	<2.4		4.9	2.4	ng/L		10/31/22 04:39	11/16/22 16:08	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/31/22 04:39	11/16/22 16:08	1
DONA	<0.39		2.0	0.39	ng/L		10/31/22 04:39	11/16/22 16:08	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/31/22 04:39	11/16/22 16:08	1
F-53B Major	<0.23		2.0	0.23	ng/L		10/31/22 04:39	11/16/22 16:08	1
F-53B Minor	<0.31		2.0	0.31	ng/L		10/31/22 04:39	11/16/22 16:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C5 PFPeA	112		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C2 PFHxA	118		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C4 PFHpA	122		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C4 PFOA	91		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C5 PFNA	94		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C2 PFDA	108		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C2 PFUnA	105		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C2 PFDoA	103		25 - 150	10/31/22 04:39	11/16/22 16:08	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: AMEC_MW-14

Lab Sample ID: 500-224531-14

Date Collected: 10/26/22 16:28

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFTeDA	83		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C3 PFBS	125		25 - 150	10/31/22 04:39	11/16/22 16:08	1
18O2 PFHxS	119		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C4 PFOS	88		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C8 FOSA	106		10 - 150	10/31/22 04:39	11/16/22 16:08	1
d3-NMeFOSAA	79		25 - 150	10/31/22 04:39	11/16/22 16:08	1
d5-NEtFOSAA	88		25 - 150	10/31/22 04:39	11/16/22 16:08	1
d-N-MeFOSA-M	85		10 - 150	10/31/22 04:39	11/16/22 16:08	1
d-N-EtFOSA-M	78		10 - 150	10/31/22 04:39	11/16/22 16:08	1
d7-N-MeFOSE-M	84		10 - 150	10/31/22 04:39	11/16/22 16:08	1
d9-N-EtFOSE-M	85		10 - 150	10/31/22 04:39	11/16/22 16:08	1
M2-4:2 FTS	141		25 - 150	10/31/22 04:39	11/16/22 16:08	1
M2-6:2 FTS	94		25 - 150	10/31/22 04:39	11/16/22 16:08	1
M2-8:2 FTS	109		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C3 HFPO-DA	125		25 - 150	10/31/22 04:39	11/16/22 16:08	1
13C2 10:2 FTS	116		25 - 150	10/31/22 04:39	11/16/22 16:08	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Aluminum	<25		100	25	ug/L		11/17/22 08:46	11/18/22 14:32	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: EB-07

Lab Sample ID: 500-224531-15

Date Collected: 10/26/22 16:50

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/06/22 20:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 20:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 20:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 20:48	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 20:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 20:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 20:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 20:48	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 20:48	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 20:48	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 20:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 20:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 20:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 20:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 20:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 20:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 20:48	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 20:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 20:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 20:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 20:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 20:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 20:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 20:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 20:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 20:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 20:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 20:48	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 20:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 20:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/06/22 20:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 20:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 20:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 20:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 20:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 20:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/06/22 20:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 20:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/06/22 20:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/06/22 20:48	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 20:48	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 20:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 20:48	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 20:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 20:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 20:48	1
Toluene	1.3		0.50	0.15	ug/L			11/06/22 20:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 20:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 20:48	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: EB-07
Date Collected: 10/26/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-15
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 20:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 20:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 20:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 20:48	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/06/22 20:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 20:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 20:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/06/22 20:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/06/22 20:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 20:48	1
Xylenes, Total	0.42	J	1.0	0.22	ug/L			11/06/22 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		72 - 124		11/06/22 20:48	1
Dibromofluoromethane (Surr)	104		75 - 120		11/06/22 20:48	1
1,2-Dichloroethane-d4 (Surr)	108		75 - 126		11/06/22 20:48	1
Toluene-d8 (Surr)	98		75 - 120		11/06/22 20:48	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		4.2	2.0	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluoropentanoic acid (PFPeA)	<0.41		1.7	0.41	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorohexanoic acid (PFHxA)	<0.49		1.7	0.49	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorooctanoic acid (PFOA)	<0.72		1.7	0.72	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorododecanoic acid (PFDoA)	<0.46		1.7	0.46	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorotridecanoic acid (PFTriA)	<1.1		1.7	1.1	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorotetradecanoic acid (PFTeA)	<0.61		1.7	0.61	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorohexanesulfonic acid (PFHxS)	<0.48		1.7	0.48	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorooctanesulfonic acid (PFOS)	<0.45		1.7	0.45	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82		1.7	0.82	ng/L		10/31/22 04:39	11/16/22 16:18	1
Perfluorooctanesulfonamide (FOSA)	<0.82		1.7	0.82	ng/L		10/31/22 04:39	11/16/22 16:18	1
NEtFOSA	<0.73		1.7	0.73	ng/L		10/31/22 04:39	11/16/22 16:18	1
NMeFOSA	<0.36		1.7	0.36	ng/L		10/31/22 04:39	11/16/22 16:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.0		4.2	1.0	ng/L		10/31/22 04:39	11/16/22 16:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.1		4.2	1.1	ng/L		10/31/22 04:39	11/16/22 16:18	1
NMeFOSE	<1.2		3.4	1.2	ng/L		10/31/22 04:39	11/16/22 16:18	1
NEtFOSE	<0.72		1.7	0.72	ng/L		10/31/22 04:39	11/16/22 16:18	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: EB-07
Date Collected: 10/26/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-15
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.20		1.7	0.20	ng/L		10/31/22 04:39	11/16/22 16:18	1
6:2 FTS	<2.1		4.2	2.1	ng/L		10/31/22 04:39	11/16/22 16:18	1
8:2 FTS	<0.39		1.7	0.39	ng/L		10/31/22 04:39	11/16/22 16:18	1
DONA	<0.34		1.7	0.34	ng/L		10/31/22 04:39	11/16/22 16:18	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		10/31/22 04:39	11/16/22 16:18	1
F-53B Major	<0.20		1.7	0.20	ng/L		10/31/22 04:39	11/16/22 16:18	1
F-53B Minor	<0.27		1.7	0.27	ng/L		10/31/22 04:39	11/16/22 16:18	1

Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	140		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C5 PFPeA	134		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C2 PFHxA	139		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C4 PFHpA	141		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C4 PFOA	103		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C5 PFNA	110		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C2 PFDA	128		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C2 PFUnA	126		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C2 PFDoA	125		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C2 PFTeDA	99		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C3 PFBS	152	*5+	25 - 150				10/31/22 04:39	11/16/22 16:18	1
18O2 PFHxS	141		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C4 PFOS	103		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C8 FOSA	119		10 - 150				10/31/22 04:39	11/16/22 16:18	1
d3-NMeFOSAA	91		25 - 150				10/31/22 04:39	11/16/22 16:18	1
d5-NEtFOSAA	109		25 - 150				10/31/22 04:39	11/16/22 16:18	1
d-N-MeFOSA-M	105		10 - 150				10/31/22 04:39	11/16/22 16:18	1
d-N-EtFOSA-M	99		10 - 150				10/31/22 04:39	11/16/22 16:18	1
d7-N-MeFOSE-M	107		10 - 150				10/31/22 04:39	11/16/22 16:18	1
d9-N-EtFOSE-M	104		10 - 150				10/31/22 04:39	11/16/22 16:18	1
M2-4:2 FTS	133		25 - 150				10/31/22 04:39	11/16/22 16:18	1
M2-6:2 FTS	95		25 - 150				10/31/22 04:39	11/16/22 16:18	1
M2-8:2 FTS	119		25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C3 HFPO-DA	152	*5+	25 - 150				10/31/22 04:39	11/16/22 16:18	1
13C2 10:2 FTS	137		25 - 150				10/31/22 04:39	11/16/22 16:18	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		11/08/22 08:48	11/08/22 22:40	1
Antimony	<1.3		3.0	1.3	ug/L		11/08/22 08:48	11/09/22 13:55	1
Arsenic	<0.23		1.0	0.23	ug/L		11/08/22 08:48	11/08/22 22:40	1
Chromium	<1.1		5.0	1.1	ug/L		11/08/22 08:48	11/08/22 22:40	1
Lead	<0.19		0.50	0.19	ug/L		11/08/22 08:48	11/08/22 22:40	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: FB-07
Date Collected: 10/26/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-16
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 04:39	11/20/22 11:23	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 04:39	11/20/22 11:23	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:39	11/20/22 11:23	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:39	11/20/22 11:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 04:39	11/20/22 11:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 04:39	11/20/22 11:23	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:39	11/20/22 11:23	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:39	11/20/22 11:23	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:39	11/20/22 11:23	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 04:39	11/20/22 11:23	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:39	11/20/22 11:23	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:39	11/20/22 11:23	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:39	11/20/22 11:23	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:39	11/20/22 11:23	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/20/22 11:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C5 PFPeA	103		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C2 PFHxA	101		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C4 PFHpA	96		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C4 PFOA	103		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C5 PFNA	95		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C2 PFDA	98		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C2 PFUnA	94		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C2 PFDoA	95		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C2 PFTeDA	95		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C3 PFBS	101		25 - 150	10/31/22 04:39	11/20/22 11:23	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: FB-07
Date Collected: 10/26/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-16
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	101		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C4 PFOS	94		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C8 FOSA	100		10 - 150	10/31/22 04:39	11/20/22 11:23	1
d3-NMeFOSAA	93		25 - 150	10/31/22 04:39	11/20/22 11:23	1
d5-NEtFOSAA	98		25 - 150	10/31/22 04:39	11/20/22 11:23	1
d-N-MeFOSA-M	88		10 - 150	10/31/22 04:39	11/20/22 11:23	1
d-N-EtFOSA-M	91		10 - 150	10/31/22 04:39	11/20/22 11:23	1
d7-N-MeFOSE-M	86		10 - 150	10/31/22 04:39	11/20/22 11:23	1
d9-N-EtFOSE-M	85		10 - 150	10/31/22 04:39	11/20/22 11:23	1
M2-4:2 FTS	85		25 - 150	10/31/22 04:39	11/20/22 11:23	1
M2-6:2 FTS	85		25 - 150	10/31/22 04:39	11/20/22 11:23	1
M2-8:2 FTS	94		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C3 HFPO-DA	95		25 - 150	10/31/22 04:39	11/20/22 11:23	1
13C2 10:2 FTS	99		25 - 150	10/31/22 04:39	11/20/22 11:23	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: AMEC_MW-16A

Lab Sample ID: 500-224531-17

Date Collected: 10/27/22 08:18

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.7	2.2	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluoropentanoic acid (PFPeA)	0.88	J	1.9	0.46	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorohexanoic acid (PFHxA)	1.3	J	1.9	0.54	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.9	0.23	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorooctanoic acid (PFOA)	7.3		1.9	0.79	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorohexanesulfonic acid (PFHxS)	0.56	J	1.9	0.53	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 04:39	11/16/22 16:38	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 04:39	11/16/22 16:38	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:39	11/16/22 16:38	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:39	11/16/22 16:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:39	11/16/22 16:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:39	11/16/22 16:38	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:39	11/16/22 16:38	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:39	11/16/22 16:38	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:39	11/16/22 16:38	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/31/22 04:39	11/16/22 16:38	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:39	11/16/22 16:38	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:39	11/16/22 16:38	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:39	11/16/22 16:38	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:39	11/16/22 16:38	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 16:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	77		25 - 150				10/31/22 04:39	11/16/22 16:38	1
13C5 PFPeA	96		25 - 150				10/31/22 04:39	11/16/22 16:38	1
13C2 PFHxA	101		25 - 150				10/31/22 04:39	11/16/22 16:38	1
13C4 PFHpA	102		25 - 150				10/31/22 04:39	11/16/22 16:38	1
13C4 PFOA	100		25 - 150				10/31/22 04:39	11/16/22 16:38	1
13C5 PFNA	80		25 - 150				10/31/22 04:39	11/16/22 16:38	1
13C2 PFDA	93		25 - 150				10/31/22 04:39	11/16/22 16:38	1
13C2 PFUnA	87		25 - 150				10/31/22 04:39	11/16/22 16:38	1
13C2 PFDoA	85		25 - 150				10/31/22 04:39	11/16/22 16:38	1
13C2 PFTeDA	73		25 - 150				10/31/22 04:39	11/16/22 16:38	1
13C3 PFBS	104		25 - 150				10/31/22 04:39	11/16/22 16:38	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: AMEC_MW-16A

Lab Sample ID: 500-224531-17

Date Collected: 10/27/22 08:18

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	101		25 - 150	10/31/22 04:39	11/16/22 16:38	1
13C4 PFOS	78		25 - 150	10/31/22 04:39	11/16/22 16:38	1
13C8 FOSA	91		10 - 150	10/31/22 04:39	11/16/22 16:38	1
d3-NMeFOSAA	69		25 - 150	10/31/22 04:39	11/16/22 16:38	1
d5-NEtFOSAA	74		25 - 150	10/31/22 04:39	11/16/22 16:38	1
d-N-MeFOSA-M	73		10 - 150	10/31/22 04:39	11/16/22 16:38	1
d-N-EtFOSA-M	68		10 - 150	10/31/22 04:39	11/16/22 16:38	1
d7-N-MeFOSE-M	73		10 - 150	10/31/22 04:39	11/16/22 16:38	1
d9-N-EtFOSE-M	71		10 - 150	10/31/22 04:39	11/16/22 16:38	1
M2-4:2 FTS	108		25 - 150	10/31/22 04:39	11/16/22 16:38	1
M2-6:2 FTS	100		25 - 150	10/31/22 04:39	11/16/22 16:38	1
M2-8:2 FTS	81		25 - 150	10/31/22 04:39	11/16/22 16:38	1
13C3 HFPO-DA	113		25 - 150	10/31/22 04:39	11/16/22 16:38	1
13C2 10:2 FTS	93		25 - 150	10/31/22 04:39	11/16/22 16:38	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: AMEC_MW-16

Lab Sample ID: 500-224531-18

Date Collected: 10/27/22 09:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	15		4.8	2.3	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluoropentanoic acid (PFPeA)	5.7		1.9	0.47	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorohexanoic acid (PFHxA)	20		1.9	0.56	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluoroheptanoic acid (PFHpA)	65		1.9	0.24	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorononanoic acid (PFNA)	0.72	J	1.9	0.26	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluoropentanesulfonic acid (PFPeS)	0.74	J	1.9	0.29	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorohexanesulfonic acid (PFHxS)	2.1		1.9	0.55	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		10/31/22 04:39	11/16/22 17:19	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		10/31/22 04:39	11/16/22 17:19	1
NEtFOSA	<0.84		1.9	0.84	ng/L		10/31/22 04:39	11/16/22 17:19	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:39	11/16/22 17:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:39	11/16/22 17:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:39	11/16/22 17:19	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:39	11/16/22 17:19	1
NEtFOSE	<0.82		1.9	0.82	ng/L		10/31/22 04:39	11/16/22 17:19	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 17:19	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:39	11/16/22 17:19	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:39	11/16/22 17:19	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:39	11/16/22 17:19	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:39	11/16/22 17:19	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 17:19	1
F-53B Minor	<0.31		1.9	0.31	ng/L		10/31/22 04:39	11/16/22 17:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	84		25 - 150				10/31/22 04:39	11/16/22 17:19	1
13C5 PFPeA	100		25 - 150				10/31/22 04:39	11/16/22 17:19	1
13C2 PFHxA	116		25 - 150				10/31/22 04:39	11/16/22 17:19	1
13C4 PFHpA	124		25 - 150				10/31/22 04:39	11/16/22 17:19	1
13C5 PFNA	98		25 - 150				10/31/22 04:39	11/16/22 17:19	1
13C2 PFDA	118		25 - 150				10/31/22 04:39	11/16/22 17:19	1
13C2 PFUnA	114		25 - 150				10/31/22 04:39	11/16/22 17:19	1
13C2 PFDoA	108		25 - 150				10/31/22 04:39	11/16/22 17:19	1
13C2 PFTeDA	107		25 - 150				10/31/22 04:39	11/16/22 17:19	1
13C3 PFBS	132		25 - 150				10/31/22 04:39	11/16/22 17:19	1
18O2 PFHxS	126		25 - 150				10/31/22 04:39	11/16/22 17:19	1
13C4 PFOS	90		25 - 150				10/31/22 04:39	11/16/22 17:19	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: AMEC_MW-16

Lab Sample ID: 500-224531-18

Date Collected: 10/27/22 09:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 FOSA	112		10 - 150	10/31/22 04:39	11/16/22 17:19	1
d3-NMeFOSAA	82		25 - 150	10/31/22 04:39	11/16/22 17:19	1
d5-NEtFOSAA	91		25 - 150	10/31/22 04:39	11/16/22 17:19	1
d-N-MeFOSA-M	93		10 - 150	10/31/22 04:39	11/16/22 17:19	1
d-N-EtFOSA-M	92		10 - 150	10/31/22 04:39	11/16/22 17:19	1
d7-N-MeFOSE-M	97		10 - 150	10/31/22 04:39	11/16/22 17:19	1
d9-N-EtFOSE-M	96		10 - 150	10/31/22 04:39	11/16/22 17:19	1
M2-4:2 FTS	148		25 - 150	10/31/22 04:39	11/16/22 17:19	1
M2-6:2 FTS	103		25 - 150	10/31/22 04:39	11/16/22 17:19	1
M2-8:2 FTS	120		25 - 150	10/31/22 04:39	11/16/22 17:19	1
13C3 HFPO-DA	123		25 - 150	10/31/22 04:39	11/16/22 17:19	1
13C2 10:2 FTS	127		25 - 150	10/31/22 04:39	11/16/22 17:19	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorooctanoic acid (PFOA)	1000		9.6	4.1	ng/L		10/31/22 04:39	11/20/22 11:33	5

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOA	97		25 - 150	10/31/22 04:39	11/20/22 11:33	5

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-121

Lab Sample ID: 500-224531-19

Date Collected: 10/27/22 10:06

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	110		0.50	0.15	ug/L			11/06/22 21:11	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 21:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 21:11	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 21:11	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 21:11	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 21:11	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 21:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 21:11	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 21:11	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 21:11	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 21:11	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 21:11	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 21:11	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 21:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 21:11	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 21:11	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 21:11	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 21:11	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 21:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 21:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 21:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 21:11	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 21:11	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 21:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 21:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 21:11	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 21:11	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 21:11	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 21:11	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 21:11	1
Ethylbenzene	76		0.50	0.18	ug/L			11/06/22 21:11	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 21:11	1
Isopropylbenzene	46		1.0	0.39	ug/L			11/06/22 21:11	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 21:11	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 21:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 21:11	1
Naphthalene	140		1.0	0.34	ug/L			11/06/22 21:11	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 21:11	1
N-Propylbenzene	63		1.0	0.41	ug/L			11/06/22 21:11	1
p-Isopropyltoluene	13		1.0	0.36	ug/L			11/06/22 21:11	1
sec-Butylbenzene	9.1		1.0	0.40	ug/L			11/06/22 21:11	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 21:11	1
tert-Butylbenzene	0.93 J		1.0	0.40	ug/L			11/06/22 21:11	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 21:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 21:11	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 21:11	1
Toluene	0.29 J		0.50	0.15	ug/L			11/06/22 21:11	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 21:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 21:11	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-121

Lab Sample ID: 500-224531-19

Date Collected: 10/27/22 10:06

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 21:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 21:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 21:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 21:11	1
Trichloroethene	0.31	J	0.50	0.16	ug/L			11/06/22 21:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 21:11	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 21:11	1
1,3,5-Trimethylbenzene	82		1.0	0.25	ug/L			11/06/22 21:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 21:11	1
Xylenes, Total	130		1.0	0.22	ug/L			11/06/22 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124		11/06/22 21:11	1
Dibromofluoromethane (Surr)	102		75 - 120		11/06/22 21:11	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		11/06/22 21:11	1
Toluene-d8 (Surr)	100		75 - 120		11/06/22 21:11	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	440		10	3.6	ug/L			11/06/22 21:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		72 - 124		11/06/22 21:36	10
Dibromofluoromethane (Surr)	104		75 - 120		11/06/22 21:36	10
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		11/06/22 21:36	10
Toluene-d8 (Surr)	99		75 - 120		11/06/22 21:36	10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.8	0.43	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorohexanoic acid (PFHxA)	29		1.8	0.51	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluoroheptanoic acid (PFHpA)	84		1.8	0.22	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		10/31/22 04:39	11/16/22 17:29	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		10/31/22 04:39	11/16/22 17:29	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-121

Lab Sample ID: 500-224531-19

Date Collected: 10/27/22 10:06

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<0.77		1.8	0.77	ng/L		10/31/22 04:39	11/16/22 17:29	1
NMeFOSA	<0.38		1.8	0.38	ng/L		10/31/22 04:39	11/16/22 17:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.4	1.1	ng/L		10/31/22 04:39	11/16/22 17:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.4	1.2	ng/L		10/31/22 04:39	11/16/22 17:29	1
NMeFOSE	<1.2		3.5	1.2	ng/L		10/31/22 04:39	11/16/22 17:29	1
NEtFOSE	<0.75		1.8	0.75	ng/L		10/31/22 04:39	11/16/22 17:29	1
4:2 FTS	<0.21		1.8	0.21	ng/L		10/31/22 04:39	11/16/22 17:29	1
6:2 FTS	<2.2		4.4	2.2	ng/L		10/31/22 04:39	11/16/22 17:29	1
8:2 FTS	<0.41		1.8	0.41	ng/L		10/31/22 04:39	11/16/22 17:29	1
DONA	<0.35		1.8	0.35	ng/L		10/31/22 04:39	11/16/22 17:29	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		10/31/22 04:39	11/16/22 17:29	1
F-53B Major	<0.21		1.8	0.21	ng/L		10/31/22 04:39	11/16/22 17:29	1
F-53B Minor	<0.28		1.8	0.28	ng/L		10/31/22 04:39	11/16/22 17:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	51		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C5 PFPeA	92		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C2 PFHxA	106		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C4 PFHpA	117		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C5 PFNA	100		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C2 PFDA	123		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C2 PFUnA	121		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C2 PFDoA	120		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C2 PFTeDA	110		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C3 PFBS	132		25 - 150	10/31/22 04:39	11/16/22 17:29	1
18O2 PFHxS	127		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C4 PFOS	100		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C8 FOSA	119		10 - 150	10/31/22 04:39	11/16/22 17:29	1
d3-NMeFOSAA	75		25 - 150	10/31/22 04:39	11/16/22 17:29	1
d5-NEtFOSAA	89		25 - 150	10/31/22 04:39	11/16/22 17:29	1
d-N-MeFOSA-M	103		10 - 150	10/31/22 04:39	11/16/22 17:29	1
d-N-EtFOSA-M	93		10 - 150	10/31/22 04:39	11/16/22 17:29	1
d7-N-MeFOSE-M	105		10 - 150	10/31/22 04:39	11/16/22 17:29	1
d9-N-EtFOSE-M	107		10 - 150	10/31/22 04:39	11/16/22 17:29	1
M2-4:2 FTS	126		25 - 150	10/31/22 04:39	11/16/22 17:29	1
M2-6:2 FTS	98		25 - 150	10/31/22 04:39	11/16/22 17:29	1
M2-8:2 FTS	117		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C3 HFPO-DA	119		25 - 150	10/31/22 04:39	11/16/22 17:29	1
13C2 10:2 FTS	123		25 - 150	10/31/22 04:39	11/16/22 17:29	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	1000		18	7.5	ng/L		10/31/22 04:39	11/20/22 11:43	10
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFOA	91		25 - 150	10/31/22 04:39	11/20/22 11:43	10			

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-121 DUP

Lab Sample ID: 500-224531-20

Date Collected: 10/27/22 10:11

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	120		0.50	0.15	ug/L			11/06/22 22:00	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 22:00	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 22:00	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 22:00	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 22:00	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 22:00	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 22:00	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 22:00	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 22:00	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 22:00	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 22:00	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 22:00	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 22:00	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 22:00	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 22:00	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 22:00	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 22:00	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 22:00	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 22:00	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 22:00	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 22:00	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 22:00	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 22:00	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 22:00	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 22:00	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 22:00	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 22:00	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 22:00	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 22:00	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 22:00	1
Ethylbenzene	80		0.50	0.18	ug/L			11/06/22 22:00	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 22:00	1
Isopropylbenzene	48		1.0	0.39	ug/L			11/06/22 22:00	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 22:00	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 22:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 22:00	1
Naphthalene	150		1.0	0.34	ug/L			11/06/22 22:00	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 22:00	1
N-Propylbenzene	65		1.0	0.41	ug/L			11/06/22 22:00	1
p-Isopropyltoluene	14		1.0	0.36	ug/L			11/06/22 22:00	1
sec-Butylbenzene	9.6		1.0	0.40	ug/L			11/06/22 22:00	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 22:00	1
tert-Butylbenzene	1.2		1.0	0.40	ug/L			11/06/22 22:00	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 22:00	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 22:00	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 22:00	1
Toluene	0.21 J		0.50	0.15	ug/L			11/06/22 22:00	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 22:00	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 22:00	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-121 DUP

Lab Sample ID: 500-224531-20

Date Collected: 10/27/22 10:11

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 22:00	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 22:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 22:00	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 22:00	1
Trichloroethene	0.23	J	0.50	0.16	ug/L			11/06/22 22:00	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 22:00	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 22:00	1
1,3,5-Trimethylbenzene	87		1.0	0.25	ug/L			11/06/22 22:00	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 22:00	1
Xylenes, Total	140		1.0	0.22	ug/L			11/06/22 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		72 - 124		11/06/22 22:00	1
Dibromofluoromethane (Surr)	101		75 - 120		11/06/22 22:00	1
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		11/06/22 22:00	1
Toluene-d8 (Surr)	100		75 - 120		11/06/22 22:00	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	430		10	3.6	ug/L			11/06/22 22:24	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124		11/06/22 22:24	10
Dibromofluoromethane (Surr)	104		75 - 120		11/06/22 22:24	10
1,2-Dichloroethane-d4 (Surr)	108		75 - 126		11/06/22 22:24	10
Toluene-d8 (Surr)	98		75 - 120		11/06/22 22:24	10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluoropentanoic acid (PFPeA)	11		1.8	0.45	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorohexanoic acid (PFHxA)	30		1.8	0.53	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluoroheptanoic acid (PFHpA)	81		1.8	0.23	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/31/22 04:39	11/16/22 17:39	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/31/22 04:39	11/16/22 17:39	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-121 DUP

Lab Sample ID: 500-224531-20

Date Collected: 10/27/22 10:11

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<0.80		1.8	0.80	ng/L		10/31/22 04:39	11/16/22 17:39	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 04:39	11/16/22 17:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 04:39	11/16/22 17:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 04:39	11/16/22 17:39	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:39	11/16/22 17:39	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/31/22 04:39	11/16/22 17:39	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 04:39	11/16/22 17:39	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 04:39	11/16/22 17:39	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 04:39	11/16/22 17:39	1
DONA	<0.37		1.8	0.37	ng/L		10/31/22 04:39	11/16/22 17:39	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:39	11/16/22 17:39	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 04:39	11/16/22 17:39	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:39	11/16/22 17:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	48		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C5 PFPeA	90		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C2 PFHxA	96		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C4 PFHpA	108		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C5 PFNA	91		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C2 PFDA	111		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C2 PFUnA	107		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C2 PFDoA	103		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C2 PFTeDA	87		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C3 PFBS	125		25 - 150	10/31/22 04:39	11/16/22 17:39	1
18O2 PFHxS	121		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C4 PFOS	95		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C8 FOSA	109		10 - 150	10/31/22 04:39	11/16/22 17:39	1
d3-NMeFOSAA	68		25 - 150	10/31/22 04:39	11/16/22 17:39	1
d5-NEtFOSAA	72		25 - 150	10/31/22 04:39	11/16/22 17:39	1
d-N-MeFOSA-M	86		10 - 150	10/31/22 04:39	11/16/22 17:39	1
d-N-EtFOSA-M	83		10 - 150	10/31/22 04:39	11/16/22 17:39	1
d7-N-MeFOSE-M	85		10 - 150	10/31/22 04:39	11/16/22 17:39	1
d9-N-EtFOSE-M	88		10 - 150	10/31/22 04:39	11/16/22 17:39	1
M2-4:2 FTS	122		25 - 150	10/31/22 04:39	11/16/22 17:39	1
M2-6:2 FTS	99		25 - 150	10/31/22 04:39	11/16/22 17:39	1
M2-8:2 FTS	104		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C3 HFPO-DA	103		25 - 150	10/31/22 04:39	11/16/22 17:39	1
13C2 10:2 FTS	105		25 - 150	10/31/22 04:39	11/16/22 17:39	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	910		9.2	3.9	ng/L		10/31/22 04:39	11/20/22 11:53	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFOA	91		25 - 150	10/31/22 04:39	11/20/22 11:53	5			

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-219

Lab Sample ID: 500-224531-21

Date Collected: 10/27/22 11:01

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/06/22 22:47	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 22:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 22:47	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 22:47	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 22:47	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 22:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 22:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 22:47	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 22:47	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 22:47	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 22:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 22:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 22:47	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 22:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 22:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 22:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 22:47	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 22:47	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 22:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 22:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 22:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 22:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 22:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 22:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 22:47	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 22:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 22:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 22:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 22:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 22:47	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/06/22 22:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 22:47	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 22:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 22:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 22:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 22:47	1
Naphthalene	0.60	J	1.0	0.34	ug/L			11/06/22 22:47	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 22:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/06/22 22:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/06/22 22:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 22:47	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 22:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 22:47	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 22:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 22:47	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 22:47	1
Toluene	<0.15		0.50	0.15	ug/L			11/06/22 22:47	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 22:47	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 22:47	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-219

Lab Sample ID: 500-224531-21

Date Collected: 10/27/22 11:01

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 22:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 22:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 22:47	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 22:47	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/06/22 22:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 22:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 22:47	1
1,2,4-Trimethylbenzene	0.36	J	1.0	0.36	ug/L			11/06/22 22:47	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/06/22 22:47	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 22:47	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/06/22 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		72 - 124					11/06/22 22:47	1
Dibromofluoromethane (Surr)	105		75 - 120					11/06/22 22:47	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 126					11/06/22 22:47	1
Toluene-d8 (Surr)	99		75 - 120					11/06/22 22:47	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		5.0	2.4	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluoropentanoic acid (PFPeA)	8.8		2.0	0.49	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorohexanoic acid (PFHxA)	38		2.0	0.58	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluoroheptanoic acid (PFHpA)	87		2.0	0.25	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluoropentanesulfonic acid (PFPeS)	1.7	J I	2.0	0.30	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 04:47	11/12/22 17:38	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 04:47	11/12/22 17:38	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 04:47	11/12/22 17:38	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:47	11/12/22 17:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:47	11/12/22 17:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:47	11/12/22 17:38	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:47	11/12/22 17:38	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 04:47	11/12/22 17:38	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 17:38	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-219

Lab Sample ID: 500-224531-21

Date Collected: 10/27/22 11:01

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:47	11/12/22 17:38	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:47	11/12/22 17:38	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:47	11/12/22 17:38	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:47	11/12/22 17:38	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 17:38	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 17:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	53		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C5 PFPeA	77		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C2 PFHxA	88		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C4 PFHpA	100		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C5 PFNA	91		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C2 PFDA	101		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C2 PFUnA	99		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C2 PFDoA	103		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C2 PFTeDA	90		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C3 PFBS	103		25 - 150	10/31/22 04:47	11/12/22 17:38	1
18O2 PFHxS	100		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C4 PFOS	87		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C8 FOSA	100		10 - 150	10/31/22 04:47	11/12/22 17:38	1
d3-NMeFOSAA	74		25 - 150	10/31/22 04:47	11/12/22 17:38	1
d5-NEtFOSAA	83		25 - 150	10/31/22 04:47	11/12/22 17:38	1
d-N-MeFOSA-M	81		10 - 150	10/31/22 04:47	11/12/22 17:38	1
d-N-EtFOSA-M	86		10 - 150	10/31/22 04:47	11/12/22 17:38	1
d7-N-MeFOSE-M	91		10 - 150	10/31/22 04:47	11/12/22 17:38	1
d9-N-EtFOSE-M	95		10 - 150	10/31/22 04:47	11/12/22 17:38	1
M2-4:2 FTS	94		25 - 150	10/31/22 04:47	11/12/22 17:38	1
M2-6:2 FTS	99		25 - 150	10/31/22 04:47	11/12/22 17:38	1
M2-8:2 FTS	96		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C3 HFPO-DA	90		25 - 150	10/31/22 04:47	11/12/22 17:38	1
13C2 10:2 FTS	104		25 - 150	10/31/22 04:47	11/12/22 17:38	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	1100		20	8.5	ng/L		10/31/22 04:47	11/17/22 05:19	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	95		25 - 150	10/31/22 04:47	11/17/22 05:19	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: EB-11
Date Collected: 10/27/22 11:20
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-22
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/06/22 23:11	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 23:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 23:11	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 23:11	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 23:11	1
Bromomethane	<0.80	F1	3.0	0.80	ug/L			11/06/22 23:11	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 23:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 23:11	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 23:11	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 23:11	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 23:11	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 23:11	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 23:11	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 23:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 23:11	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 23:11	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 23:11	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 23:11	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 23:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 23:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 23:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 23:11	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 23:11	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 23:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 23:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 23:11	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 23:11	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 23:11	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 23:11	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 23:11	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/06/22 23:11	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 23:11	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 23:11	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 23:11	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 23:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 23:11	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/06/22 23:11	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 23:11	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/06/22 23:11	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/06/22 23:11	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 23:11	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 23:11	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 23:11	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 23:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 23:11	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 23:11	1
Toluene	<0.15		0.50	0.15	ug/L			11/06/22 23:11	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 23:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 23:11	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: EB-11
Date Collected: 10/27/22 11:20
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-22
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 23:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 23:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 23:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 23:11	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/06/22 23:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 23:11	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 23:11	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/06/22 23:11	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/06/22 23:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 23:11	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/06/22 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		72 - 124					11/06/22 23:11	1
Dibromofluoromethane (Surr)	103		75 - 120					11/06/22 23:11	1
1,2-Dichloroethane-d4 (Surr)	108		75 - 126					11/06/22 23:11	1
Toluene-d8 (Surr)	99		75 - 120					11/06/22 23:11	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		4.9	2.4	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorooctanoic acid (PFOA)	<0.84		2.0	0.84	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		10/31/22 04:47	11/12/22 17:48	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		10/31/22 04:47	11/12/22 17:48	1
NEtFOSA	<0.86		2.0	0.86	ng/L		10/31/22 04:47	11/12/22 17:48	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/31/22 04:47	11/12/22 17:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		10/31/22 04:47	11/12/22 17:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		10/31/22 04:47	11/12/22 17:48	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/31/22 04:47	11/12/22 17:48	1
NEtFOSE	<0.84		2.0	0.84	ng/L		10/31/22 04:47	11/12/22 17:48	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: EB-11
Date Collected: 10/27/22 11:20
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-22
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 17:48	1
6:2 FTS	<2.5		4.9	2.5	ng/L		10/31/22 04:47	11/12/22 17:48	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/31/22 04:47	11/12/22 17:48	1
DONA	<0.39		2.0	0.39	ng/L		10/31/22 04:47	11/12/22 17:48	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/31/22 04:47	11/12/22 17:48	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 17:48	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 17:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	115		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C5 PFPeA	107		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C2 PFHxA	106		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C4 PFHpA	102		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C4 PFOA	99		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C5 PFNA	92		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C2 PFDA	113		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C2 PFUnA	115		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C2 PFDoA	112		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C2 PFTeDA	93		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C3 PFBS	108		25 - 150				10/31/22 04:47	11/12/22 17:48	1
18O2 PFHxS	96		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C4 PFOS	85		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C8 FOSA	106		10 - 150				10/31/22 04:47	11/12/22 17:48	1
d3-NMeFOSAA	92		25 - 150				10/31/22 04:47	11/12/22 17:48	1
d5-NEtFOSAA	100		25 - 150				10/31/22 04:47	11/12/22 17:48	1
d-N-MeFOSA-M	85		10 - 150				10/31/22 04:47	11/12/22 17:48	1
d-N-EtFOSA-M	84		10 - 150				10/31/22 04:47	11/12/22 17:48	1
d7-N-MeFOSE-M	96		10 - 150				10/31/22 04:47	11/12/22 17:48	1
d9-N-EtFOSE-M	97		10 - 150				10/31/22 04:47	11/12/22 17:48	1
M2-4:2 FTS	99		25 - 150				10/31/22 04:47	11/12/22 17:48	1
M2-6:2 FTS	97		25 - 150				10/31/22 04:47	11/12/22 17:48	1
M2-8:2 FTS	103		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C3 HFPO-DA	94		25 - 150				10/31/22 04:47	11/12/22 17:48	1
13C2 10:2 FTS	116		25 - 150				10/31/22 04:47	11/12/22 17:48	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: FB-11
Date Collected: 10/27/22 11:25
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-23
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.6		5.3	2.6	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluoropentanoic acid (PFPeA)	<0.52		2.1	0.52	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorohexanoic acid (PFHxA)	<0.62		2.1	0.62	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluoroheptanoic acid (PFHpA)	<0.27		2.1	0.27	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorooctanoic acid (PFOA)	<0.91		2.1	0.91	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorononanoic acid (PFNA)	<0.29		2.1	0.29	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorodecanoic acid (PFDA)	<0.33		2.1	0.33	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.1	1.2	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorododecanoic acid (PFDoA)	<0.59		2.1	0.59	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorotridecanoic acid (PFTriA)	<1.4		2.1	1.4	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorotetradecanoic acid (PFTeA)	<0.78		2.1	0.78	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluoropentanesulfonic acid (PFPeS)	<0.32		2.1	0.32	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorohexanesulfonic acid (PFHxS)	<0.61		2.1	0.61	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorooctanesulfonic acid (PFOS)	<0.58		2.1	0.58	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorononanesulfonic acid (PFNS)	<0.39		2.1	0.39	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorodecanesulfonic acid (PFDS)	<0.34		2.1	0.34	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/31/22 04:47	11/12/22 17:58	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/31/22 04:47	11/12/22 17:58	1
NEtFOSA	<0.93		2.1	0.93	ng/L		10/31/22 04:47	11/12/22 17:58	1
NMeFOSA	<0.46		2.1	0.46	ng/L		10/31/22 04:47	11/12/22 17:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.3		5.3	1.3	ng/L		10/31/22 04:47	11/12/22 17:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.4		5.3	1.4	ng/L		10/31/22 04:47	11/12/22 17:58	1
NMeFOSE	<1.5		4.3	1.5	ng/L		10/31/22 04:47	11/12/22 17:58	1
NEtFOSE	<0.91		2.1	0.91	ng/L		10/31/22 04:47	11/12/22 17:58	1
4:2 FTS	<0.26		2.1	0.26	ng/L		10/31/22 04:47	11/12/22 17:58	1
6:2 FTS	<2.7		5.3	2.7	ng/L		10/31/22 04:47	11/12/22 17:58	1
8:2 FTS	<0.49		2.1	0.49	ng/L		10/31/22 04:47	11/12/22 17:58	1
DONA	<0.43		2.1	0.43	ng/L		10/31/22 04:47	11/12/22 17:58	1
HFPO-DA (GenX)	<1.6		4.3	1.6	ng/L		10/31/22 04:47	11/12/22 17:58	1
F-53B Major	<0.26		2.1	0.26	ng/L		10/31/22 04:47	11/12/22 17:58	1
F-53B Minor	<0.34		2.1	0.34	ng/L		10/31/22 04:47	11/12/22 17:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C5 PFPeA	92		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C2 PFHxA	91		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C4 PFHpA	92		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C4 PFOA	91		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C5 PFNA	81		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C2 PFDA	94		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C2 PFUnA	84		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C2 PFDoA	89		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C2 PFTeDA	82		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C3 PFBS	99		25 - 150	10/31/22 04:47	11/12/22 17:58	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: FB-11
Date Collected: 10/27/22 11:25
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-23
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	91		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C4 PFOS	78		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C8 FOSA	85		10 - 150	10/31/22 04:47	11/12/22 17:58	1
d3-NMeFOSAA	66		25 - 150	10/31/22 04:47	11/12/22 17:58	1
d5-NEtFOSAA	72		25 - 150	10/31/22 04:47	11/12/22 17:58	1
d-N-MeFOSA-M	72		10 - 150	10/31/22 04:47	11/12/22 17:58	1
d-N-EtFOSA-M	73		10 - 150	10/31/22 04:47	11/12/22 17:58	1
d7-N-MeFOSE-M	79		10 - 150	10/31/22 04:47	11/12/22 17:58	1
d9-N-EtFOSE-M	83		10 - 150	10/31/22 04:47	11/12/22 17:58	1
M2-4:2 FTS	89		25 - 150	10/31/22 04:47	11/12/22 17:58	1
M2-6:2 FTS	88		25 - 150	10/31/22 04:47	11/12/22 17:58	1
M2-8:2 FTS	82		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C3 HFPO-DA	90		25 - 150	10/31/22 04:47	11/12/22 17:58	1
13C2 10:2 FTS	85		25 - 150	10/31/22 04:47	11/12/22 17:58	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 500-224531-24

Date Collected: 10/25/22 00:00

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/06/22 15:11	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 15:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 15:11	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 15:11	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 15:11	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 15:11	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 15:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 15:11	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 15:11	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 15:11	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 15:11	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 15:11	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 15:11	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 15:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 15:11	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 15:11	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 15:11	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 15:11	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 15:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 15:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 15:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 15:11	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 15:11	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 15:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 15:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 15:11	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 15:11	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 15:11	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 15:11	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 15:11	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/06/22 15:11	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 15:11	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 15:11	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 15:11	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 15:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 15:11	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/06/22 15:11	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 15:11	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/06/22 15:11	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/06/22 15:11	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 15:11	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 15:11	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 15:11	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 15:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 15:11	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 15:11	1
Toluene	<0.15		0.50	0.15	ug/L			11/06/22 15:11	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 15:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 15:11	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 500-224531-24

Date Collected: 10/25/22 00:00

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 15:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 15:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 15:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 15:11	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/06/22 15:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 15:11	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 15:11	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/06/22 15:11	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/06/22 15:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 15:11	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/06/22 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		72 - 124		11/06/22 15:11	1
Dibromofluoromethane (Surr)	102		75 - 120		11/06/22 15:11	1
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		11/06/22 15:11	1
Toluene-d8 (Surr)	98		75 - 120		11/06/22 15:11	1

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

GC/MS VOA

Analysis Batch: 683388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-15	EB-07	Total/NA	Water	8260B	
500-224531-19	MW-121	Total/NA	Water	8260B	
500-224531-19 - DL	MW-121	Total/NA	Water	8260B	
500-224531-20	MW-121 DUP	Total/NA	Water	8260B	
500-224531-20 - DL	MW-121 DUP	Total/NA	Water	8260B	
500-224531-21	MW-219	Total/NA	Water	8260B	
500-224531-22	EB-11	Total/NA	Water	8260B	
500-224531-24	TRIP BLANK 1	Total/NA	Water	8260B	
MB 500-683388/6	Method Blank	Total/NA	Water	8260B	
LCS 500-683388/4	Lab Control Sample	Total/NA	Water	8260B	
500-224531-22 MS	EB-11	Total/NA	Water	8260B	
500-224531-22 MSD	EB-11	Total/NA	Water	8260B	

LCMS

Prep Batch: 628957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-1	PZ-226	Total/NA	Water	3535	
500-224531-2	PZ-226 DUP	Total/NA	Water	3535	
500-224531-3	MW-226	Total/NA	Water	3535	
500-224531-4	MW-226 DUP	Total/NA	Water	3535	
500-224531-5	MW-236	Total/NA	Water	3535	
500-224531-7	EB-04	Total/NA	Water	3535	
500-224531-8	FB-04	Total/NA	Water	3535	
500-224531-9	AMEC_MW-17	Total/NA	Water	3535	
500-224531-12	MW-235	Total/NA	Water	3535	
500-224531-13	AMEC_MW-15	Total/NA	Water	3535	
500-224531-14	AMEC_MW-14	Total/NA	Water	3535	
500-224531-15	EB-07	Total/NA	Water	3535	
500-224531-16	FB-07	Total/NA	Water	3535	
500-224531-17	AMEC_MW-16A	Total/NA	Water	3535	
500-224531-18 - DL	AMEC_MW-16	Total/NA	Water	3535	
500-224531-18	AMEC_MW-16	Total/NA	Water	3535	
500-224531-19 - DL	MW-121	Total/NA	Water	3535	
500-224531-19	MW-121	Total/NA	Water	3535	
500-224531-20 - DL	MW-121 DUP	Total/NA	Water	3535	
500-224531-20	MW-121 DUP	Total/NA	Water	3535	
MB 320-628957/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-628957/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-628957/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 628960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-21	MW-219	Total/NA	Water	3535	
500-224531-21 - DL	MW-219	Total/NA	Water	3535	
500-224531-22	EB-11	Total/NA	Water	3535	
500-224531-23	FB-11	Total/NA	Water	3535	
MB 320-628960/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-628960/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-628960/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

LCMS

Analysis Batch: 632665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-21	MW-219	Total/NA	Water	537 (modified)	628960
500-224531-22	EB-11	Total/NA	Water	537 (modified)	628960
500-224531-23	FB-11	Total/NA	Water	537 (modified)	628960
MB 320-628960/1-A	Method Blank	Total/NA	Water	537 (modified)	628960
LCS 320-628960/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	628960
LCSD 320-628960/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	628960

Analysis Batch: 633308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-1	PZ-226	Total/NA	Water	537 (modified)	628957
500-224531-2	PZ-226 DUP	Total/NA	Water	537 (modified)	628957
500-224531-3	MW-226	Total/NA	Water	537 (modified)	628957
500-224531-4	MW-226 DUP	Total/NA	Water	537 (modified)	628957
500-224531-5	MW-236	Total/NA	Water	537 (modified)	628957
500-224531-7	EB-04	Total/NA	Water	537 (modified)	628957
500-224531-8	FB-04	Total/NA	Water	537 (modified)	628957
500-224531-9	AMEC_MW-17	Total/NA	Water	537 (modified)	628957
500-224531-12	MW-235	Total/NA	Water	537 (modified)	628957
500-224531-13	AMEC_MW-15	Total/NA	Water	537 (modified)	628957
500-224531-14	AMEC_MW-14	Total/NA	Water	537 (modified)	628957
500-224531-15	EB-07	Total/NA	Water	537 (modified)	628957
500-224531-17	AMEC_MW-16A	Total/NA	Water	537 (modified)	628957
500-224531-18	AMEC_MW-16	Total/NA	Water	537 (modified)	628957
500-224531-19	MW-121	Total/NA	Water	537 (modified)	628957
500-224531-20	MW-121 DUP	Total/NA	Water	537 (modified)	628957
MB 320-628957/1-A	Method Blank	Total/NA	Water	537 (modified)	628957
LCS 320-628957/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	628957
LCSD 320-628957/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	628957

Analysis Batch: 633486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-21 - DL	MW-219	Total/NA	Water	537 (modified)	628960

Analysis Batch: 634102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-16	FB-07	Total/NA	Water	537 (modified)	628957
500-224531-18 - DL	AMEC_MW-16	Total/NA	Water	537 (modified)	628957
500-224531-19 - DL	MW-121	Total/NA	Water	537 (modified)	628957
500-224531-20 - DL	MW-121 DUP	Total/NA	Water	537 (modified)	628957

Metals

Prep Batch: 683681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-15	EB-07	Dissolved	Water	3005A	
MB 500-683681/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-683681/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 683983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-15	EB-07	Dissolved	Water	6020A	683681

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Metals (Continued)

Analysis Batch: 683983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-683681/1-A	Method Blank	Total Recoverable	Water	6020A	683681
LCS 500-683681/2-A	Lab Control Sample	Total Recoverable	Water	6020A	683681

Analysis Batch: 684075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-15	EB-07	Dissolved	Water	6020A	683681
MB 500-683681/1-A	Method Blank	Total Recoverable	Water	6020A	683681
LCS 500-683681/2-A	Lab Control Sample	Total Recoverable	Water	6020A	683681

Prep Batch: 685527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-9	AMEC_MW-17	Dissolved	Water	3005A	
500-224531-14	AMEC_MW-14	Dissolved	Water	3005A	
MB 500-685527/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-685527/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 686063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-9	AMEC_MW-17	Dissolved	Water	6020A	685527
500-224531-14	AMEC_MW-14	Dissolved	Water	6020A	685527
MB 500-685527/1-A	Method Blank	Total Recoverable	Water	6020A	685527
LCS 500-685527/2-A	Lab Control Sample	Total Recoverable	Water	6020A	685527



Surrogate Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-224531-15	EB-07	106	104	108	98
500-224531-19	MW-121	97	102	107	100
500-224531-19 - DL	MW-121	106	104	109	99
500-224531-20	MW-121 DUP	99	101	106	100
500-224531-20 - DL	MW-121 DUP	107	104	108	98
500-224531-21	MW-219	110	105	107	99
500-224531-22	EB-11	108	103	108	99
500-224531-22 MS	EB-11	105	103	107	100
500-224531-22 MSD	EB-11	102	102	106	100
500-224531-24	TRIP BLANK 1	103	102	106	98
LCS 500-683388/4	Lab Control Sample	104	103	105	101
MB 500-683388/6	Method Blank	106	101	105	100

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- DCA = 1,2-Dichloroethane-d4 (Surr)
- TOL = Toluene-d8 (Surr)



QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-683388/6
Matrix: Water
Analysis Batch: 683388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.50	0.15	ug/L			11/06/22 14:47	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 14:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 14:47	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 14:47	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 14:47	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 14:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 14:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 14:47	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 14:47	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 14:47	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 14:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 14:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 14:47	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 14:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 14:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 14:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 14:47	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 14:47	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 14:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 14:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 14:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 14:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 14:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 14:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 14:47	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 14:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 14:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 14:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 14:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 14:47	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/06/22 14:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 14:47	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 14:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 14:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 14:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 14:47	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/06/22 14:47	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 14:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/06/22 14:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/06/22 14:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 14:47	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 14:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 14:47	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 14:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 14:47	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 14:47	1
Toluene	<0.15		0.50	0.15	ug/L			11/06/22 14:47	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 14:47	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-683388/6
Matrix: Water
Analysis Batch: 683388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 14:47	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 14:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 14:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 14:47	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 14:47	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/06/22 14:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 14:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 14:47	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/06/22 14:47	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/06/22 14:47	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 14:47	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/06/22 14:47	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	106		72 - 124		11/06/22 14:47	1
Dibromofluoromethane (Surr)	101		75 - 120		11/06/22 14:47	1
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		11/06/22 14:47	1
Toluene-d8 (Surr)	100		75 - 120		11/06/22 14:47	1

Lab Sample ID: LCS 500-683388/4
Matrix: Water
Analysis Batch: 683388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	54.0		ug/L		108	70 - 122
Bromochloromethane	50.0	50.5		ug/L		101	65 - 122
Bromodichloromethane	50.0	56.6		ug/L		113	69 - 120
Bromoform	50.0	59.2		ug/L		118	56 - 132
Bromomethane	50.0	71.8		ug/L		144	40 - 152
Carbon tetrachloride	50.0	53.0		ug/L		106	59 - 133
Chlorobenzene	50.0	49.5		ug/L		99	70 - 120
Chloroethane	50.0	64.5		ug/L		129	48 - 136
Chloroform	50.0	51.6		ug/L		103	70 - 120
Chloromethane	50.0	61.6		ug/L		123	56 - 152
2-Chlorotoluene	50.0	50.4		ug/L		101	70 - 125
4-Chlorotoluene	50.0	51.7		ug/L		103	68 - 124
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 125
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	64 - 127
Dibromochloromethane	50.0	57.7		ug/L		115	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	57.6		ug/L		115	56 - 123
1,2-Dibromoethane	50.0	52.3		ug/L		105	70 - 125
Dibromomethane	50.0	53.2		ug/L		106	70 - 120
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 125
1,3-Dichlorobenzene	50.0	47.8		ug/L		96	70 - 125
1,4-Dichlorobenzene	50.0	47.7		ug/L		95	70 - 120
Dichlorodifluoromethane	50.0	40.7		ug/L		81	40 - 159
1,1-Dichloroethane	50.0	53.0		ug/L		106	70 - 125

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-683388/4
Matrix: Water
Analysis Batch: 683388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	50.0	58.1		ug/L		116	68 - 127
1,1-Dichloroethene	50.0	46.7		ug/L		93	67 - 122
1,2-Dichloropropane	50.0	54.3		ug/L		109	67 - 130
1,3-Dichloropropane	50.0	55.1		ug/L		110	62 - 136
2,2-Dichloropropane	50.0	63.0		ug/L		126	58 - 139
1,1-Dichloropropene	50.0	48.7		ug/L		97	70 - 121
Ethylbenzene	50.0	47.5		ug/L		95	70 - 123
Hexachlorobutadiene	50.0	36.6		ug/L		73	51 - 150
Isopropylbenzene	50.0	49.6		ug/L		99	70 - 126
Methylene Chloride	50.0	51.6		ug/L		103	69 - 125
Methyl tert-butyl ether	50.0	51.1		ug/L		102	55 - 123
Naphthalene	50.0	46.3		ug/L		93	53 - 144
n-Butylbenzene	50.0	42.8		ug/L		86	68 - 125
N-Propylbenzene	50.0	49.5		ug/L		99	69 - 127
p-Isopropyltoluene	50.0	45.3		ug/L		91	70 - 125
sec-Butylbenzene	50.0	45.8		ug/L		92	70 - 123
Styrene	50.0	52.0		ug/L		104	70 - 120
tert-Butylbenzene	50.0	47.6		ug/L		95	70 - 121
1,1,1,2-Tetrachloroethane	50.0	51.7		ug/L		103	70 - 125
1,1,2,2-Tetrachloroethane	50.0	58.5		ug/L		117	62 - 140
Tetrachloroethene	50.0	46.3		ug/L		93	70 - 128
Toluene	50.0	51.9		ug/L		104	70 - 125
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	70 - 125
trans-1,3-Dichloropropene	50.0	54.2		ug/L		108	62 - 128
1,2,3-Trichlorobenzene	50.0	42.3		ug/L		85	51 - 145
1,2,4-Trichlorobenzene	50.0	42.4		ug/L		85	57 - 137
1,1,1-Trichloroethane	50.0	53.5		ug/L		107	70 - 125
1,1,2-Trichloroethane	50.0	53.6		ug/L		107	71 - 130
Trichloroethene	50.0	48.0		ug/L		96	70 - 125
Trichlorofluoromethane	50.0	52.7		ug/L		105	55 - 128
1,2,3-Trichloropropane	50.0	57.7		ug/L		115	50 - 133
1,2,4-Trimethylbenzene	50.0	49.4		ug/L		99	70 - 123
1,3,5-Trimethylbenzene	50.0	49.6		ug/L		99	70 - 123
Vinyl chloride	50.0	52.8		ug/L		106	64 - 126
Xylenes, Total	100	100		ug/L		100	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		72 - 124
Dibromofluoromethane (Surr)	103		75 - 120
1,2-Dichloroethane-d4 (Surr)	105		75 - 126
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: 500-224531-22 MS
Matrix: Water
Analysis Batch: 683388

Client Sample ID: EB-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.15		50.0	52.3		ug/L		105	70 - 120

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-224531-22 MS

Matrix: Water

Analysis Batch: 683388

Client Sample ID: EB-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	<0.36		50.0	55.7		ug/L		111	70 - 122
Bromochloromethane	<0.43		50.0	52.5		ug/L		105	65 - 122
Bromodichloromethane	<0.37		50.0	58.9		ug/L		118	69 - 120
Bromoform	<0.48		50.0	58.5		ug/L		117	56 - 132
Bromomethane	<0.80	F1	50.0	86.2	F1	ug/L		172	40 - 152
Carbon tetrachloride	<0.38		50.0	56.3		ug/L		113	59 - 133
Chlorobenzene	<0.39		50.0	51.5		ug/L		103	70 - 120
Chloroethane	<0.51		50.0	63.9		ug/L		128	48 - 136
Chloroform	<0.37		50.0	54.5		ug/L		109	70 - 120
Chloromethane	<0.32		50.0	65.8		ug/L		132	56 - 152
2-Chlorotoluene	<0.31		50.0	54.9		ug/L		110	70 - 125
4-Chlorotoluene	<0.35		50.0	56.4		ug/L		113	68 - 124
cis-1,2-Dichloroethene	<0.41		50.0	51.2		ug/L		102	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	52.2		ug/L		104	64 - 127
Dibromochloromethane	<0.49		50.0	58.1		ug/L		116	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	55.5		ug/L		111	56 - 123
1,2-Dibromoethane	<0.39		50.0	51.9		ug/L		104	70 - 125
Dibromomethane	<0.27		50.0	54.1		ug/L		108	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	52.1		ug/L		104	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	50.3		ug/L		101	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	50.1		ug/L		100	70 - 120
Dichlorodifluoromethane	<0.67		50.0	45.5		ug/L		91	40 - 159
1,1-Dichloroethane	<0.41		50.0	56.0		ug/L		112	70 - 125
1,2-Dichloroethane	<0.39		50.0	59.5		ug/L		119	68 - 127
1,1-Dichloroethene	<0.39		50.0	49.2		ug/L		98	67 - 122
1,2-Dichloropropane	<0.43		50.0	54.7		ug/L		109	67 - 130
1,3-Dichloropropane	<0.36		50.0	54.6		ug/L		109	62 - 136
2,2-Dichloropropane	<0.44		50.0	64.8		ug/L		130	58 - 139
1,1-Dichloropropene	<0.30		50.0	51.3		ug/L		103	70 - 121
Ethylbenzene	<0.18		50.0	52.1		ug/L		104	70 - 123
Hexachlorobutadiene	<0.45		50.0	45.5		ug/L		91	51 - 150
Isopropylbenzene	<0.39		50.0	53.8		ug/L		108	70 - 126
Methylene Chloride	<1.6		50.0	53.1		ug/L		106	69 - 125
Methyl tert-butyl ether	<0.39		50.0	53.2		ug/L		106	55 - 123
Naphthalene	<0.34		50.0	49.8		ug/L		100	53 - 144
n-Butylbenzene	<0.39		50.0	50.2		ug/L		100	68 - 125
N-Propylbenzene	<0.41		50.0	55.5		ug/L		111	69 - 127
p-Isopropyltoluene	<0.36		50.0	52.8		ug/L		106	70 - 125
sec-Butylbenzene	<0.40		50.0	53.8		ug/L		108	70 - 123
Styrene	<0.39		50.0	55.0		ug/L		110	70 - 120
tert-Butylbenzene	<0.40		50.0	54.9		ug/L		110	70 - 121
1,1,1,2-Tetrachloroethane	<0.46		50.0	53.0		ug/L		106	70 - 125
1,1,1,2,2-Tetrachloroethane	<0.40		50.0	56.3		ug/L		113	62 - 140
Tetrachloroethene	<0.37		50.0	48.8		ug/L		98	70 - 128
Toluene	<0.15		50.0	54.4		ug/L		109	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	50.1		ug/L		100	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	54.4		ug/L		109	62 - 128
1,2,3-Trichlorobenzene	<0.46		50.0	44.3		ug/L		89	51 - 145
1,2,4-Trichlorobenzene	<0.34		50.0	42.5		ug/L		85	57 - 137

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-224531-22 MS
Matrix: Water
Analysis Batch: 683388

Client Sample ID: EB-11
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
1,1,1-Trichloroethane	<0.38		50.0	56.9		ug/L		114	70 - 125	
1,1,2-Trichloroethane	<0.35		50.0	53.6		ug/L		107	71 - 130	
Trichloroethene	<0.16		50.0	51.1		ug/L		102	70 - 125	
Trichlorofluoromethane	<0.43		50.0	57.3		ug/L		115	55 - 128	
1,2,3-Trichloropropane	<0.41		50.0	56.7		ug/L		113	50 - 133	
1,2,4-Trimethylbenzene	<0.36		50.0	55.5		ug/L		111	70 - 123	
1,3,5-Trimethylbenzene	<0.25		50.0	55.4		ug/L		111	70 - 123	
Vinyl chloride	<0.20		50.0	48.4		ug/L		97	64 - 126	
Xylenes, Total	<0.22		100	109		ug/L		109	70 - 125	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	105		72 - 124							
Dibromofluoromethane (Surr)	103		75 - 120							
1,2-Dichloroethane-d4 (Surr)	107		75 - 126							
Toluene-d8 (Surr)	100		75 - 120							

Lab Sample ID: 500-224531-22 MSD
Matrix: Water
Analysis Batch: 683388

Client Sample ID: EB-11
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
Benzene	<0.15		50.0	52.3		ug/L		105	70 - 120	0	20	
Bromobenzene	<0.36		50.0	54.8		ug/L		110	70 - 122	2	20	
Bromochloromethane	<0.43		50.0	51.0		ug/L		102	65 - 122	3	20	
Bromodichloromethane	<0.37		50.0	58.6		ug/L		117	69 - 120	0	20	
Bromoform	<0.48		50.0	61.2		ug/L		122	56 - 132	5	20	
Bromomethane	<0.80	F1	50.0	83.4	F1	ug/L		167	40 - 152	3	20	
Carbon tetrachloride	<0.38		50.0	56.5		ug/L		113	59 - 133	0	20	
Chlorobenzene	<0.39		50.0	51.8		ug/L		104	70 - 120	1	20	
Chloroethane	<0.51		50.0	58.1		ug/L		116	48 - 136	10	20	
Chloroform	<0.37		50.0	54.1		ug/L		108	70 - 120	1	20	
Chloromethane	<0.32		50.0	63.3		ug/L		127	56 - 152	4	20	
2-Chlorotoluene	<0.31		50.0	53.9		ug/L		108	70 - 125	2	20	
4-Chlorotoluene	<0.35		50.0	55.0		ug/L		110	68 - 124	2	20	
cis-1,2-Dichloroethene	<0.41		50.0	51.6		ug/L		103	70 - 125	1	20	
cis-1,3-Dichloropropene	<0.42		50.0	52.3		ug/L		105	64 - 127	0	20	
Dibromochloromethane	<0.49		50.0	58.2		ug/L		116	68 - 125	0	20	
1,2-Dibromo-3-Chloropropane	<2.0		50.0	54.0		ug/L		108	56 - 123	3	20	
1,2-Dibromoethane	<0.39		50.0	52.5		ug/L		105	70 - 125	1	20	
Dibromomethane	<0.27		50.0	54.3		ug/L		109	70 - 120	0	20	
1,2-Dichlorobenzene	<0.33		50.0	51.5		ug/L		103	70 - 125	1	20	
1,3-Dichlorobenzene	<0.40		50.0	50.1		ug/L		100	70 - 125	1	20	
1,4-Dichlorobenzene	<0.36		50.0	50.0		ug/L		100	70 - 120	0	20	
Dichlorodifluoromethane	<0.67		50.0	42.6		ug/L		85	40 - 159	7	20	
1,1-Dichloroethane	<0.41		50.0	53.9		ug/L		108	70 - 125	4	20	
1,2-Dichloroethane	<0.39		50.0	59.5		ug/L		119	68 - 127	0	20	
1,1-Dichloroethene	<0.39		50.0	47.9		ug/L		96	67 - 122	3	20	
1,2-Dichloropropane	<0.43		50.0	55.4		ug/L		111	67 - 130	1	20	

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-224531-22 MSD
Matrix: Water
Analysis Batch: 683388

Client Sample ID: EB-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3-Dichloropropane	<0.36		50.0	55.4		ug/L		111	62 - 136	1	20
2,2-Dichloropropane	<0.44		50.0	64.1		ug/L		128	58 - 139	1	20
1,1-Dichloropropene	<0.30		50.0	51.7		ug/L		103	70 - 121	1	20
Ethylbenzene	<0.18		50.0	52.4		ug/L		105	70 - 123	1	20
Hexachlorobutadiene	<0.45		50.0	44.4		ug/L		89	51 - 150	2	20
Isopropylbenzene	<0.39		50.0	53.1		ug/L		106	70 - 126	1	20
Methylene Chloride	<1.6		50.0	52.4		ug/L		105	69 - 125	1	20
Methyl tert-butyl ether	<0.39		50.0	52.4		ug/L		105	55 - 123	1	20
Naphthalene	<0.34		50.0	48.2		ug/L		96	53 - 144	3	20
n-Butylbenzene	<0.39		50.0	49.3		ug/L		99	68 - 125	2	20
N-Propylbenzene	<0.41		50.0	54.1		ug/L		108	69 - 127	3	20
p-Isopropyltoluene	<0.36		50.0	52.1		ug/L		104	70 - 125	1	20
sec-Butylbenzene	<0.40		50.0	53.0		ug/L		106	70 - 123	1	20
Styrene	<0.39		50.0	54.5		ug/L		109	70 - 120	1	20
tert-Butylbenzene	<0.40		50.0	53.5		ug/L		107	70 - 121	3	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	53.9		ug/L		108	70 - 125	2	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	56.1		ug/L		112	62 - 140	0	20
Tetrachloroethene	<0.37		50.0	49.1		ug/L		98	70 - 128	0	20
Toluene	<0.15		50.0	52.9		ug/L		106	70 - 125	3	20
trans-1,2-Dichloroethene	<0.35		50.0	50.7		ug/L		101	70 - 125	1	20
trans-1,3-Dichloropropene	<0.36		50.0	54.6		ug/L		109	62 - 128	0	20
1,2,3-Trichlorobenzene	<0.46		50.0	44.0		ug/L		88	51 - 145	1	20
1,2,4-Trichlorobenzene	<0.34		50.0	41.3		ug/L		83	57 - 137	3	20
1,1,1-Trichloroethane	<0.38		50.0	56.6		ug/L		113	70 - 125	1	20
1,1,2-Trichloroethane	<0.35		50.0	52.7		ug/L		105	71 - 130	2	20
Trichloroethene	<0.16		50.0	50.7		ug/L		101	70 - 125	1	20
Trichlorofluoromethane	<0.43		50.0	51.5		ug/L		103	55 - 128	11	20
1,2,3-Trichloropropane	<0.41		50.0	55.2		ug/L		110	50 - 133	3	20
1,2,4-Trimethylbenzene	<0.36		50.0	53.8		ug/L		108	70 - 123	3	20
1,3,5-Trimethylbenzene	<0.25		50.0	54.4		ug/L		109	70 - 123	2	20
Vinyl chloride	<0.20		50.0	52.3		ug/L		105	64 - 126	8	20
Xylenes, Total	<0.22		100	108		ug/L		108	70 - 125	1	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	102		72 - 124
Dibromofluoromethane (Surr)	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	106		75 - 126
Toluene-d8 (Surr)	100		75 - 120

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-628957/1-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/31/22 04:39	11/16/22 12:55	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628957/1-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628957

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 04:39	11/16/22 12:55	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 04:39	11/16/22 12:55	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:39	11/16/22 12:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:39	11/16/22 12:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:39	11/16/22 12:55	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:39	11/16/22 12:55	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 04:39	11/16/22 12:55	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:39	11/16/22 12:55	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:39	11/16/22 12:55	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:39	11/16/22 12:55	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:39	11/16/22 12:55	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:39	11/16/22 12:55	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:39	11/16/22 12:55	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:39	11/16/22 12:55	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	118		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C5 PFPeA	116		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFHxA	114		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C4 PFHpA	115		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C4 PFOA	116		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C5 PFNA	103		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFDA	108		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFUnA	95		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFDoA	99		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFTeDA	91		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C3 PFBS	133		25 - 150	10/31/22 04:39	11/16/22 12:55	1
18O2 PFHxS	126		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C4 PFOS	104		25 - 150	10/31/22 04:39	11/16/22 12:55	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628957/1-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628957

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 FOSA	102		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d3-NMeFOSAA	69		25 - 150	10/31/22 04:39	11/16/22 12:55	1
d5-NEtFOSAA	79		25 - 150	10/31/22 04:39	11/16/22 12:55	1
d-N-MeFOSA-M	86		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d-N-EtFOSA-M	90		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d7-N-MeFOSE-M	84		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d9-N-EtFOSE-M	93		10 - 150	10/31/22 04:39	11/16/22 12:55	1
M2-4:2 FTS	110		25 - 150	10/31/22 04:39	11/16/22 12:55	1
M2-6:2 FTS	93		25 - 150	10/31/22 04:39	11/16/22 12:55	1
M2-8:2 FTS	102		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C3 HFPO-DA	119		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 10:2 FTS	106		25 - 150	10/31/22 04:39	11/16/22 12:55	1

Lab Sample ID: LCS 320-628957/2-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	41.6		ng/L		104	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.7		ng/L		107	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.2		ng/L		100	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	38.4		ng/L		96	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	41.2		ng/L		103	60 - 135
Perfluorononanoic acid (PFNA)	40.0	40.1		ng/L		100	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	36.4		ng/L		91	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	38.4		ng/L		96	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	37.3		ng/L		93	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	39.9		ng/L		100	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.3		ng/L		101	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	31.8		ng/L		89	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	36.2		ng/L		96	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.0		ng/L		104	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	42.3		ng/L		111	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	40.3		ng/L		108	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	42.4		ng/L		110	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	38.3		ng/L		99	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	38.5		ng/L		99	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	37.8		ng/L		94	60 - 135
NEtFOSA	40.0	42.9		ng/L		107	60 - 135

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628957/2-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSA	40.0	40.6		ng/L		101	60 - 135
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	40.0	40.3		ng/L		101	60 - 135
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	40.0	40.3		ng/L		101	60 - 135
NMeFOSE	40.0	38.8		ng/L		97	60 - 135
NEtFOSE	40.0	39.1		ng/L		98	60 - 135
4:2 FTS	37.5	37.2		ng/L		99	60 - 135
6:2 FTS	38.1	40.2		ng/L		106	60 - 135
8:2 FTS	38.4	41.2		ng/L		107	60 - 135
DONA	37.8	44.3		ng/L		117	60 - 135
HFPO-DA (GenX)	40.0	42.3		ng/L		106	60 - 135
F-53B Major	37.4	38.1		ng/L		102	60 - 135
F-53B Minor	37.8	38.6		ng/L		102	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	110		25 - 150
13C5 PFPeA	105		25 - 150
13C2 PFHxA	113		25 - 150
13C4 PFHpA	108		25 - 150
13C4 PFOA	93		25 - 150
13C5 PFNA	96		25 - 150
13C2 PFDA	98		25 - 150
13C2 PFUnA	93		25 - 150
13C2 PFDoA	98		25 - 150
13C2 PFTeDA	86		25 - 150
13C3 PFBS	122		25 - 150
18O2 PFHxS	101		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	99		10 - 150
d3-NMeFOSAA	71		25 - 150
d5-NEtFOSAA	77		25 - 150
d-N-MeFOSA-M	81		10 - 150
d-N-EtFOSA-M	80		10 - 150
d7-N-MeFOSE-M	89		10 - 150
d9-N-EtFOSE-M	92		10 - 150
M2-4:2 FTS	95		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	90		25 - 150
13C3 HFPO-DA	107		25 - 150
13C2 10:2 FTS	108		25 - 150

Lab Sample ID: LCSD 320-628957/3-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec RPD	
							Limits	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	41.9		ng/L		105	60 - 135	1 30
Perfluoropentanoic acid (PFPeA)	40.0	41.1		ng/L		103	60 - 135	4 30

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628957/3-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid (PFHxA)	40.0	36.6		ng/L		91	60 - 135	9	30
Perfluoroheptanoic acid (PFHpA)	40.0	33.9		ng/L		85	60 - 135	12	30
Perfluorooctanoic acid (PFOA)	40.0	44.4		ng/L		111	60 - 135	7	30
Perfluorononanoic acid (PFNA)	40.0	39.7		ng/L		99	60 - 135	1	30
Perfluorodecanoic acid (PFDA)	40.0	41.2		ng/L		103	60 - 135	12	30
Perfluoroundecanoic acid (PFUnA)	40.0	39.8		ng/L		99	60 - 135	4	30
Perfluorododecanoic acid (PFDoA)	40.0	38.6		ng/L		96	60 - 135	3	30
Perfluorotridecanoic acid (PFTriA)	40.0	40.5		ng/L		101	60 - 135	1	30
Perfluorotetradecanoic acid (PFTeA)	40.0	38.6		ng/L		97	60 - 135	4	30
Perfluorobutanesulfonic acid (PFBS)	35.5	31.5		ng/L		89	60 - 135	1	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.7		ng/L		95	60 - 135	1	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.5		ng/L		100	60 - 135	4	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	41.8		ng/L		109	60 - 135	1	30
Perfluorooctanesulfonic acid (PFOS)	37.2	39.7		ng/L		107	60 - 135	2	30
Perfluorononanesulfonic acid (PFNS)	38.5	42.8		ng/L		111	60 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)	38.6	39.1		ng/L		101	60 - 135	2	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.1		ng/L		101	60 - 135	2	30
Perfluorooctanesulfonamide (FOSA)	40.0	36.9		ng/L		92	60 - 135	2	30
NEtFOSA	40.0	42.7		ng/L		107	60 - 135	0	30
NMeFOSA	40.0	42.2		ng/L		105	60 - 135	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.5		ng/L		106	60 - 135	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.4		ng/L		106	60 - 135	5	30
NMeFOSE	40.0	41.6		ng/L		104	60 - 135	7	30
NEtFOSE	40.0	39.6		ng/L		99	60 - 135	1	30
4:2 FTS	37.5	33.1		ng/L		88	60 - 135	12	30
6:2 FTS	38.1	38.7		ng/L		102	60 - 135	4	30
8:2 FTS	38.4	40.3		ng/L		105	60 - 135	2	30
DONA	37.8	47.4		ng/L		126	60 - 135	7	30
HFPO-DA (GenX)	40.0	42.9		ng/L		107	60 - 135	1	30
F-53B Major	37.4	40.1		ng/L		107	60 - 135	5	30
F-53B Minor	37.8	39.3		ng/L		104	60 - 135	2	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	110		25 - 150
13C5 PFPeA	106		25 - 150
13C2 PFHxA	113		25 - 150
13C4 PFHpA	119		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628957/3-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628957

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	90		25 - 150
13C5 PFNA	96		25 - 150
13C2 PFDA	103		25 - 150
13C2 PFUnA	98		25 - 150
13C2 PFDoA	99		25 - 150
13C2 PFTeDA	93		25 - 150
13C3 PFBS	123		25 - 150
18O2 PFHxS	108		25 - 150
13C4 PFOS	93		25 - 150
13C8 FOSA	95		10 - 150
d3-NMeFOSAA	72		25 - 150
d5-NEtFOSAA	74		25 - 150
d-N-MeFOSA-M	76		10 - 150
d-N-EtFOSA-M	81		10 - 150
d7-N-MeFOSE-M	87		10 - 150
d9-N-EtFOSE-M	95		10 - 150
M2-4:2 FTS	103		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	113		25 - 150
13C2 10:2 FTS	103		25 - 150

Lab Sample ID: MB 320-628960/1-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628960

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 04:47	11/12/22 13:34	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628960/1-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 04:47	11/12/22 13:34	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:47	11/12/22 13:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:47	11/12/22 13:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:47	11/12/22 13:34	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:47	11/12/22 13:34	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 04:47	11/12/22 13:34	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 13:34	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:47	11/12/22 13:34	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:47	11/12/22 13:34	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:47	11/12/22 13:34	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:47	11/12/22 13:34	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 13:34	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 13:34	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C5 PFPeA	92		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 PFHxA	91		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C4 PFHpA	92		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C4 PFOA	97		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C5 PFNA	96		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 PFDA	118		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 PFUnA	86		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 PFDoA	92		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 PFTeDA	75		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C3 PFBS	101		25 - 150	10/31/22 04:47	11/12/22 13:34	1
18O2 PFHxS	92		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C4 PFOS	91		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C8 FOSA	112		10 - 150	10/31/22 04:47	11/12/22 13:34	1
d3-NMeFOSAA	66		25 - 150	10/31/22 04:47	11/12/22 13:34	1
d5-NEtFOSAA	78		25 - 150	10/31/22 04:47	11/12/22 13:34	1
d-N-MeFOSA-M	68		10 - 150	10/31/22 04:47	11/12/22 13:34	1
d-N-EtFOSA-M	71		10 - 150	10/31/22 04:47	11/12/22 13:34	1
d7-N-MeFOSE-M	83		10 - 150	10/31/22 04:47	11/12/22 13:34	1
d9-N-EtFOSE-M	85		10 - 150	10/31/22 04:47	11/12/22 13:34	1
M2-4:2 FTS	87		25 - 150	10/31/22 04:47	11/12/22 13:34	1
M2-6:2 FTS	87		25 - 150	10/31/22 04:47	11/12/22 13:34	1
M2-8:2 FTS	95		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C3 HFPO-DA	88		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 10:2 FTS	84		25 - 150	10/31/22 04:47	11/12/22 13:34	1

Lab Sample ID: LCS 320-628960/2-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	42.7		ng/L		107	60 - 135

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628960/2-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	40.0	42.3		ng/L		106	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.7		ng/L		104	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	44.7		ng/L		112	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	40.9		ng/L		102	60 - 135
Perfluorononanoic acid (PFNA)	40.0	41.0		ng/L		102	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	41.6		ng/L		104	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	38.4		ng/L		96	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	41.0		ng/L		103	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	41.3		ng/L		103	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	39.7		ng/L		99	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	31.1		ng/L		88	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.0		ng/L		93	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.2		ng/L		99	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	48.1		ng/L		126	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	42.2		ng/L		113	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	43.1		ng/L		112	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	37.6		ng/L		97	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.6		ng/L		102	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	41.9		ng/L		105	60 - 135
NEtFOSA	40.0	44.2		ng/L		110	60 - 135
NMeFOSA	40.0	45.1		ng/L		113	60 - 135
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	40.0	42.6		ng/L		107	60 - 135
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	40.0	41.0		ng/L		103	60 - 135
NMeFOSE	40.0	41.5		ng/L		104	60 - 135
NEtFOSE	40.0	40.8		ng/L		102	60 - 135
4:2 FTS	37.5	36.3		ng/L		97	60 - 135
6:2 FTS	38.1	37.2		ng/L		98	60 - 135
8:2 FTS	38.4	37.3		ng/L		97	60 - 135
DONA	37.8	46.2		ng/L		122	60 - 135
HFPO-DA (GenX)	40.0	44.8		ng/L		112	60 - 135
F-53B Major	37.4	42.2		ng/L		113	60 - 135
F-53B Minor	37.8	41.2		ng/L		109	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	93		25 - 150
13C5 PFPeA	93		25 - 150
13C2 PFHxA	94		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628960/2-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628960

<i>Isotope Dilution</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C4 PFHpA	92		25 - 150
13C4 PFOA	95		25 - 150
13C5 PFNA	84		25 - 150
13C2 PFDA	90		25 - 150
13C2 PFUnA	89		25 - 150
13C2 PFDaA	86		25 - 150
13C2 PFTeDA	80		25 - 150
13C3 PFBS	106		25 - 150
18O2 PFHxS	95		25 - 150
13C4 PFOS	79		25 - 150
13C8 FOSA	84		10 - 150
d3-NMeFOSAA	71		25 - 150
d5-NEtFOSAA	73		25 - 150
d-N-MeFOSA-M	71		10 - 150
d-N-EtFOSA-M	75		10 - 150
d7-N-MeFOSE-M	81		10 - 150
d9-N-EtFOSE-M	84		10 - 150
M2-4:2 FTS	89		25 - 150
M2-6:2 FTS	87		25 - 150
M2-8:2 FTS	89		25 - 150
13C3 HFPO-DA	86		25 - 150
13C2 10:2 FTS	84		25 - 150

Lab Sample ID: LCSD 320-628960/3-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628960

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>		<i>RPD</i>	<i>Limit</i>
							<i>Limits</i>	<i>RPD</i>		
Perfluorobutanoic acid (PFBA)	40.0	41.3		ng/L		103	60 - 135	3	30	
Perfluoropentanoic acid (PFPeA)	40.0	40.5		ng/L		101	60 - 135	4	30	
Perfluorohexanoic acid (PFHxA)	40.0	40.0		ng/L		100	60 - 135	4	30	
Perfluoroheptanoic acid (PFHpA)	40.0	40.4		ng/L		101	60 - 135	10	30	
Perfluorooctanoic acid (PFOA)	40.0	43.1		ng/L		108	60 - 135	5	30	
Perfluorononanoic acid (PFNA)	40.0	41.3		ng/L		103	60 - 135	1	30	
Perfluorodecanoic acid (PFDA)	40.0	38.0		ng/L		95	60 - 135	9	30	
Perfluoroundecanoic acid (PFUnA)	40.0	39.0		ng/L		97	60 - 135	1	30	
Perfluorododecanoic acid (PFDaA)	40.0	38.4		ng/L		96	60 - 135	7	30	
Perfluorotridecanoic acid (PFTriA)	40.0	41.1		ng/L		103	60 - 135	0	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	41.9		ng/L		105	60 - 135	6	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	34.0		ng/L		96	60 - 135	9	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.1		ng/L		94	60 - 135	0	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.7		ng/L		98	60 - 135	1	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	47.9		ng/L		125	60 - 135	1	30	

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628960/3-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628960

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	37.2	41.6		ng/L		112	60 - 135	1	30
Perfluorononanesulfonic acid (PFNS)	38.5	40.0		ng/L		104	60 - 135	7	30
Perfluorodecanesulfonic acid (PFDS)	38.6	39.0		ng/L		101	60 - 135	4	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.5		ng/L		102	60 - 135	0	30
Perfluorooctanesulfonamide (FOSA)	40.0	38.5		ng/L		96	60 - 135	8	30
NEtFOSA	40.0	43.6		ng/L		109	60 - 135	1	30
NMeFOSA	40.0	43.1		ng/L		108	60 - 135	5	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.4		ng/L		101	60 - 135	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.5		ng/L		99	60 - 135	4	30
NMeFOSE	40.0	42.0		ng/L		105	60 - 135	1	30
NEtFOSE	40.0	41.7		ng/L		104	60 - 135	2	30
4:2 FTS	37.5	37.3		ng/L		99	60 - 135	3	30
6:2 FTS	38.1	37.5		ng/L		98	60 - 135	1	30
8:2 FTS	38.4	38.8		ng/L		101	60 - 135	4	30
DONA	37.8	48.7		ng/L		129	60 - 135	5	30
HFPO-DA (GenX)	40.0	41.8		ng/L		104	60 - 135	7	30
F-53B Major	37.4	40.7		ng/L		109	60 - 135	4	30
F-53B Minor	37.8	41.6		ng/L		110	60 - 135	1	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	98		25 - 150
13C5 PFPeA	97		25 - 150
13C2 PFHxA	98		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	95		25 - 150
13C5 PFNA	85		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	86		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	84		25 - 150
13C3 PFBS	106		25 - 150
18O2 PFHxS	100		25 - 150
13C4 PFOS	83		25 - 150
13C8 FOSA	94		10 - 150
d3-NMeFOSAA	73		25 - 150
d5-NEtFOSAA	82		25 - 150
d-N-MeFOSA-M	73		10 - 150
d-N-EtFOSA-M	78		10 - 150
d7-N-MeFOSE-M	83		10 - 150
d9-N-EtFOSE-M	85		10 - 150
M2-4:2 FTS	94		25 - 150
M2-6:2 FTS	90		25 - 150
M2-8:2 FTS	83		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628960/3-A
 Matrix: Water
 Analysis Batch: 632665

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 628960

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	91		25 - 150
13C2 10:2 FTS	85		25 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-683681/1-A
 Matrix: Water
 Analysis Batch: 683983

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 683681

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	<25		100	25	ug/L		11/08/22 08:48	11/08/22 21:47	1
Arsenic	<0.23		1.0	0.23	ug/L		11/08/22 08:48	11/08/22 21:47	1
Chromium	<1.1		5.0	1.1	ug/L		11/08/22 08:48	11/08/22 21:47	1
Lead	<0.19		0.50	0.19	ug/L		11/08/22 08:48	11/08/22 21:47	1

Lab Sample ID: MB 500-683681/1-A
 Matrix: Water
 Analysis Batch: 684075

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 683681

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<1.3		3.0	1.3	ug/L		11/08/22 08:48	11/09/22 13:48	1

Lab Sample ID: LCS 500-683681/2-A
 Matrix: Water
 Analysis Batch: 683983

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 683681

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Aluminum	2000	2060		ug/L		103		80 - 120
Arsenic	100	96.3		ug/L		96		80 - 120
Chromium	200	196		ug/L		98		80 - 120
Lead	100	100		ug/L		100		80 - 120

Lab Sample ID: LCS 500-683681/2-A
 Matrix: Water
 Analysis Batch: 684075

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 683681

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Antimony	500	467		ug/L		93		80 - 120

Lab Sample ID: MB 500-685527/1-A
 Matrix: Water
 Analysis Batch: 686063

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 685527

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	<25		100	25	ug/L		11/17/22 08:46	11/18/22 14:22	1
Antimony	<1.3		3.0	1.3	ug/L		11/17/22 08:46	11/18/22 14:22	1

QC Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-685527/2-A
Matrix: Water
Analysis Batch: 686063

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 685527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2090		ug/L		105	80 - 120
Antimony	500	502		ug/L		100	80 - 120

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: PZ-226

Date Collected: 10/25/22 08:53

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 13:26

Client Sample ID: PZ-226 DUP

Date Collected: 10/25/22 08:58

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 13:36

Client Sample ID: MW-226

Date Collected: 10/25/22 10:45

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 13:46

Client Sample ID: MW-226 DUP

Date Collected: 10/25/22 10:50

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 13:56

Client Sample ID: MW-236

Date Collected: 10/25/22 14:55

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 14:06

Client Sample ID: EB-04

Date Collected: 10/25/22 16:30

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 14:26

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: FB-04
Date Collected: 10/25/22 16:35
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 15:07

Client Sample ID: AMEC_MW-17
Date Collected: 10/26/22 08:47
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 15:17
Dissolved	Prep	3005A			685527	BDE	EET CHI	11/17/22 08:46 - 11/17/22 09:16 ¹
Dissolved	Analysis	6020A		1	686063	FXG	EET CHI	11/18/22 14:29

Client Sample ID: MW-235
Date Collected: 10/26/22 13:18
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 15:48

Client Sample ID: AMEC_MW-15
Date Collected: 10/26/22 14:56
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 15:58

Client Sample ID: AMEC_MW-14
Date Collected: 10/26/22 16:28
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 16:08
Dissolved	Prep	3005A			685527	BDE	EET CHI	11/17/22 08:46 - 11/17/22 09:16 ¹
Dissolved	Analysis	6020A		1	686063	FXG	EET CHI	11/18/22 14:32

Client Sample ID: EB-07
Date Collected: 10/26/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683388	W1T	EET CHI	11/06/22 20:48

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: EB-07
Date Collected: 10/26/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 16:18
Dissolved	Prep	3005A			683681	BDE	EET CHI	11/08/22 08:48 - 11/08/22 09:18 ¹
Dissolved	Analysis	6020A		1	683983	FXG	EET CHI	11/08/22 22:40
Dissolved	Prep	3005A			683681	BDE	EET CHI	11/08/22 08:48 - 11/08/22 09:18 ¹
Dissolved	Analysis	6020A		1	684075	FXG	EET CHI	11/09/22 13:55

Client Sample ID: FB-07
Date Collected: 10/26/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	634102	RS1	EET SAC	11/20/22 11:23

Client Sample ID: AMEC_MW-16A
Date Collected: 10/27/22 08:18
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 16:38

Client Sample ID: AMEC_MW-16
Date Collected: 10/27/22 09:10
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)	DL	5	634102	RS1	EET SAC	11/20/22 11:33
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 17:19

Client Sample ID: MW-121
Date Collected: 10/27/22 10:06
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683388	W1T	EET CHI	11/06/22 21:11
Total/NA	Analysis	8260B	DL	10	683388	W1T	EET CHI	11/06/22 21:36
Total/NA	Prep	3535	DL		628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)	DL	10	634102	RS1	EET SAC	11/20/22 11:43
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 17:29

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Client Sample ID: MW-121 DUP

Lab Sample ID: 500-224531-20

Date Collected: 10/27/22 10:11

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683388	W1T	EET CHI	11/06/22 22:00
Total/NA	Analysis	8260B	DL	10	683388	W1T	EET CHI	11/06/22 22:24
Total/NA	Prep	3535	DL		628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)	DL	5	634102	RS1	EET SAC	11/20/22 11:53
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 17:39

Client Sample ID: MW-219

Lab Sample ID: 500-224531-21

Date Collected: 10/27/22 11:01

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683388	W1T	EET CHI	11/06/22 22:47
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 17:38
Total/NA	Prep	3535	DL		628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)	DL	10	633486	K1S	EET SAC	11/17/22 05:19

Client Sample ID: EB-11

Lab Sample ID: 500-224531-22

Date Collected: 10/27/22 11:20

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683388	W1T	EET CHI	11/06/22 23:11
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 17:48

Client Sample ID: FB-11

Lab Sample ID: 500-224531-23

Date Collected: 10/27/22 11:25

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 17:58

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 500-224531-24

Date Collected: 10/25/22 00:00

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683388	W1T	EET CHI	11/06/22 15:11

[†] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
 EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Laboratory: Eurofins Sacramento

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

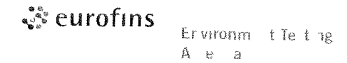
Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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Eurofins TestAmerica, Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



Client Information		Sampler <i>COLLEEN DUFFY</i>	Lab PM Fredrick Sandie	Carrier Tracking No(s)	COC No 500-87887-39456 1											
Client Contact: Paul Lindquist		Phone	E Mail sandra.fredrick@eurofinset.com	State of Origin WISCONSIN	Page Page 1 of 3											
Company Ramboll US Corporation		PWSID	Analysis Requested													
Address 234 W Florida Street		Due Date Requested <i>STANDARD</i>	Job # <i>500-224531</i> Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J Di Water V MCAA K EDTA W pH 4-5 L EDTA Z other (specify) Other:													
City Milwaukee		TAT Requested (days)														
State Zip WI 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No														
Phone 262-901-3510(Tel)		PO # 1690019647														
Email plindquist@ramboll.com		WO #														
Project Name Former Mirro Plant No 9 1690019647		Project # 50018382	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> PFAS Extended List (36 Analytes) PFC_IDA_WI VOCs 8260B 6020A (Metals) <i>FILTERED</i> PCBs 8082A Total Number of containers													
Site		SSOW#														
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	AI	Sb	As	Cr	Pb	PCBs 8082A	Special Instructions/Note
1	PZ-226	10-25-22	853	G	Water			X								
2	PZ-226 DUP		858	G	Water			X								
3	MW-226		1045	G	Water			X								
4	MW-226 DUP		1050	G	Water			X								
5	MW-236		1455	G	Water			X								
6	MW-228		1605	G	Water			X								
7	EB-04		1630	G	Water			X								
8	FB-04		1635	G	Water			X								
9	AMEC-MW-17	10-26-22	847	G	Water			X		X						
10	MW-218		1037	G	Water			X								
11	MW-217		1219	G	Water			X	X							
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements										
Empty Kit Relinquished by			Date			Time			Method of Shipment							
Relinquished by <i>Colleen Duffy</i>			Date/Time <i>10-27-22 1510</i>			Company <i>RAMBOLL</i>			Received by <i>[Signature]</i>							
Relinquished by <i>[Signature]</i>			Date/Time <i>10-27-22 1700</i>			Company <i>Eurofins</i>			Received by <i>[Signature]</i>							
Relinquished by			Date/Time			Company			Received by							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No			Cooler Temperature(s) °C and Other Remarks. <i>416 → 48, 25 → 20</i>										

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Eurofins TestAmerica, Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



Er v n f er T st ig
 Ar er

Client Information		Sampler <i>COLLEEN DUFFY</i>		Lab PM Fredrick Sandie		Carrier Tracking No(s)		COC No 500-87887-39456 1			
Client Contact Paul Lindquist		Phone		E-Mail sandra.fredrick@eurofinset.com		State of Origin <i>WISCONSIN</i>		Page 2 of 3			
Company Ramboll US Corporation				PWSID		Analysis Requested					
Address 234 W Florida Street		Due Date Requested		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> PFAS Extended List (36 Analytes) PFC_IDA_WI <input checked="" type="checkbox"/> VOCs 8280B <input checked="" type="checkbox"/> 6020A (Metals) <i>FILTERED</i> PCBs 8082A <input checked="" type="checkbox"/>		Total Number of Containers Job # <i>500-224531</i>		Preservation Codes			
City Milwaukee		TAT Requested (days) <i>STANDARD</i>						A HCL M Hexane		B NaOH N None	
State Zip WI 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S	
Phone 262-901-3510(Tel)		PO # 1690019647						E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3	
Email plindquist@ramboll.com		WO #:						G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate	
Project Name Former Mirro Plant No 9 1690019647		Project # 50018382		I Ice U Acetone		J DI Water V MCAA		K EDTA W pH 4-5			
Site		SSOW#		L EDTA Z other (specify)		Other:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			
								Preservation Code:			
								N A D D D D D N			
<i>12</i> MW-235		<i>10-26-22</i>		<i>1318</i>		<i>G</i>		<i>Water</i>			
<i>13</i> AMEC-MW-15				<i>1456</i>		<i>G</i>		<i>Water</i>			
<i>14</i> AMEC-MW-14				<i>1628</i>		<i>G</i>		<i>Water</i>			
<i>15</i> EB-07				<i>1650</i>		<i>G</i>		<i>Water</i>			
<i>16</i> EB-07 FB-07		<i>↓</i>		<i>1655</i>		<i>G</i>		<i>Water</i>			
<i>17</i> AMEC-MW-16A		<i>10-27-22</i>		<i>0818</i>		<i>G</i>		<i>Water</i>			
<i>18</i> AMEC-MW-16				<i>0910</i>		<i>G</i>		<i>Water</i>			
<i>19</i> MW-121				<i>1006</i>		<i>G</i>		<i>Water</i>			
<i>20</i> MW-121 DUP				<i>1011</i>		<i>G</i>		<i>Water</i>			
<i>21</i> MW-219				<i>1101</i>		<i>G</i>		<i>Water</i>			
<i>22</i> EB-11				<i>1120</i>		<i>G</i>		<i>Water</i>			
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements						
Empty Kit Relinquished by		Date		Time		Method of Shipment					
Relinquished by <i>Colleen Duffy</i>		Date/Time <i>10-27-22-1510</i>		Company <i>Ramboll</i>		Received by <i>[Signature]</i>		Date/Time <i>10/27/22 1510</i> Company <i>Eurofins</i>			
Relinquished by <i>[Signature]</i>		Date/Time <i>10/27/22 1700</i>		Company <i>Eurofins</i>		Received by <i>[Signature]</i>		Date/Time <i>10/28/22 1018</i> Company <i>Eurofins</i>			
Relinquished by		Date/Time		Company		Received by		Date/Time Company			
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks							

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University Park IL 60484
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Chain of Custody Record



Environmental Test
America

Client Information		Sampler: COLLEEN DUFFY		Lab PM: Fredrick Sandie		Carrier Tracking No(s)		COC No: 500-87887-39456 1						
Client Contact: Paul Lindquist		Phone		E-Mail: sandra.fredrick@eurofinset.com		State of Origin: WISCONSIN		Page 3 of 3						
Company: Ramboll US Corporation				PWSID		Analysis Requested								
Address: 234 W Florida Street		Due Date Requested		TAT Requested (days): STANDARD		Job: 500-224531								
City: Milwaukee		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #: 1690019647		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)								
State Zip: WI 53204		Project #: 50018382		WO #										
Phone: 262-901-3510(Tel)		SSOW#		Project Name: Former Mirro Plant No 9 1690019647		Other:								
Email: plindquist@ramboll.com				Site										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFCs 8260B	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	6020A (Metals)	PCBs 8082A	Total Number of Containers	Special Instructions/Note
				Preservation Code:		X	N	A	D	D	D	D	D	N
23 FB-11		10-27-22	1125	G	Water		X							
24 TRIP BLANK 1		-	-	-	Water			X						
<i>Handwritten: Clu 10/27/22</i>					Water									
					Water									
					Water									
					Water									
					Water									
					Water									
					Water									
					Water									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements									
Empty Kit Relinquished by		Date		Time		Method of Shipment								
Relinquished by: <i>Colleen Duffy</i>		Date/Time: 10-27-22 1510		Company: RAMBOLL		Received by: <i>[Signature]</i>		Date/Time: 10-27-22 1510		Company: Eurofins				
Relinquished by: <i>[Signature]</i>		Date/Time: 10-27-22 1700		Company: Eurofins		Received by: <i>[Signature]</i>		Date/Time: 10/28/22 1010		Company: Eurofins				
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:				
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks										

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 52.60 LB
CAD: Q269688/CAFE3616

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.



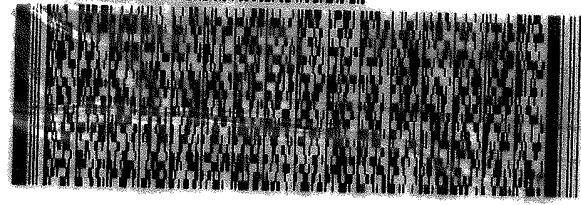
500-224531 Waybi

UNIVERSITY PARK IL 60484

(262) 202-5955
INVT
PO:

REF:

DEPT:

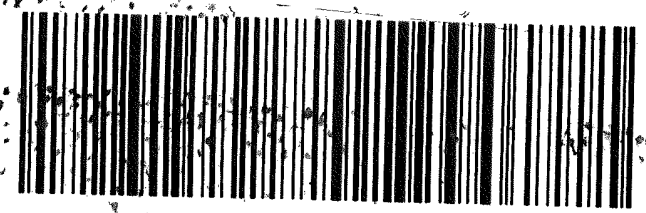


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TRK# 6058 8696 6405
0261
MASTER

FRI - 28 OCT 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 51.20 LB
CAD: Q269688/CAFE3616

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

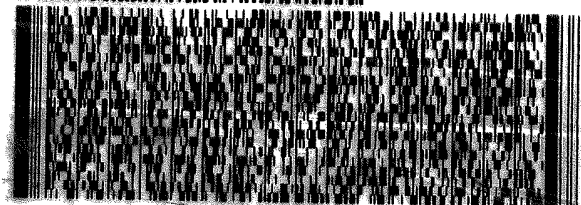
BILL RECIPIENT

UNIVERSITY PARK IL 60484

(262) 202-5955
INVT
PO:

REF:

DEPT:

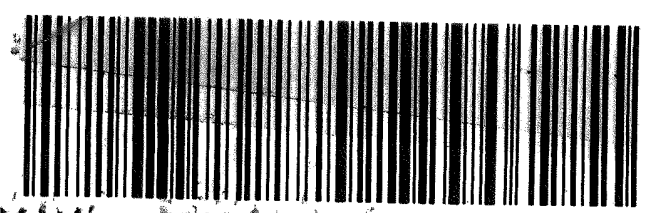


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0263
Mstr# 6058 8696 6405

FRI - 28 OCT 10:30A
PRIORITY OVERNIGHT

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60484
IL-US ORD



Client Information		Sampler <i>COLLEEN DUFFY</i>	Lab PM Fredrick, Sandie	Carrier Tracking No(s)	COC No. 500-87887-39456.1
Client Contact: Paul Lindquist		Phone	E-Mail: sandra.fredrick@eurofinset.com	State of Origin WISCONSIN	Page 1 of 3
Company: Ramboll US Corporation		PWSID:		Job #	
Address: 234 W Florida Street		Due Date Requested:		Analysis Requested	
City: Milwaukee		TAT Requested (days): STANDARD		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
State, Zip: WI, 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone: 262-901-3510(Tel)		PO #: 1690019647		Total Number of Containers	
Email: plindquist@ramboll.com		WO #:		Special Instructions/Note:	
Project Name: Former Mirro Plant No 9 - 1690019647		Project #: 50018382		500-224531 Chain of Custody	
Site: Former Mirro Plant No 9 - 1690019647		SSOW#:		Barcode	
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, M=metal, A=air)
PZ - 226	10-25-22	853	G	Water	
PZ - 226 DUP		858	G	Water	
MW - 226		1045	G	Water	
MW - 226 DUP		1050	G	Water	
MW - 236		1455	G	Water	
MW - 228		1605	G	Water	
EB-04		1630	G	Water	
FB-04		1635	G	Water	
AMEC-MW-17	10-26-22	847	G	Water	
MW-218		1037	G	Water	
MW-217		1219	G	Water	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Relinquished by: <i>Colleen Duffy</i>		Date/Time: 10-27-22 1510		Company: Ramboll	
Relinquished by: <i>Colleen Duffy</i>		Date/Time: 10-27-22 1700		Company: Eurofins	
Relinquished by:		Date/Time:		Company:	
Custody Seal No.: <i>MISSING and 5010-2820</i>		Custody Seal No.: <i>2051768/2051769/2051763</i>		Cooler Temperature(s) °C and Other Remarks: <i>3/133</i>	



Chain of Custody Record

Client Information		Sampler: COLLEEN DUFFY	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	GOC No: 500-87887-39456-1
Client Contact: Paul Lindquist		Phone:	E-Mail: sandra.fredrick@eurofins.com	State of Origin: WISCONSIN	Page: Page 2 of 3
Company: Ramboll US Corporation		PWSID:		Job #:	
Address: 234 W Florida Street		Due Date Requested:		Analysis Requested	
City: Milwaukee		TAT Requested (days): STANDARD		PFAS, Extended List (36 Analytes) - PFC_IDA_WI	
State, Zip: WI, 53204		Compliance Project: Δ Yes Δ No		VOCs - 82608	
Phone: 262-901-3510(Tel)		PO #: 1690019647		6020A (Metals)	
Email: plindquist@ramboll.com		WO #: 1690019647		PCBs - 8082A	
Project Name: Former Mirro Plant No 9 - 1690019647		Project #: 50018382		Filtered	
Site:		SSOW#:		Special Instructions/Note:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, On-slab, BT-Tissue, AA-A)
MW-235	10-26-22	1318	G	Water	
AMEC-MW-15		1456	G	Water	
AMEC-MW-14		1628	G	Water	X
EB-07		1650	G	Water	
EB-07		1655	G	Water	
AMEC-MW-16A	10-27-22	0818	G	Water	X
AMEC-MW-16		0910	G	Water	X
MW-121		1006	G	Water	X
MW-121 Dup		1011	G	Water	X
MW-219		1101	G	Water	X
EB-11		1120	G	Water	X
Possible Hazard Identification					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: Colleen Duffy		Date: 10-27-22	Time: 1510	Company: Eurofins	
Relinquished by: [Signature]		Date: 10-27-22	Time: 1700	Company: Eurofins	
Relinquished by: [Signature]		Date:	Time:	Company:	
Custody Seal Intact Yes Δ No		Custody Seal No.: 2051763 / 2051769 / 2051768		Cooler Temperature(s) °C and Other Remarks: 3 / 33	



Chain of Custody Record



Client Information

Client Contact: Paul Lindquist
Company: Ramboll US Corporation
Address: 234 W Florida Street
City: Milwaukee
State, Zip: WI, 53204
Phone: 262-901-3510(Tel)
Email: plindquist@ramboll.com
Project Name: Former Mirro Plant No 9 - 1690019647
Site: S50W#

Sampler: COLLEEN DUFFY
Lab PM: Fredrick, Sandie
E-Mail: sandra.fredrick@eurofinsel.com
Carrier Tracking No(s): 500-87887-39456.1
State of Origin: WISCONSIN
Page: Page 3 of 3
Job #:

Analysis Requested

Due Date Requested: STANDARD
TAT Requested (days):
Compliance Project: Yes No
PO #: 1690019647
WO #:
Project #: 50018382
SSOW#:

Analysis Requested

VOCs - 8260B
PAS, Extended List (36 Analytes) - PFC, IDA, WI
6020A (Metals)
PCBs - 8082A

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soiled, On-site, Off-site)	Special Instructions/Note:
FB-11 TRIP BLANK 1	10-27-22	1125	G	Water	
				Water	
				Water	
				Water	
				Water	
				Water	
				Water	
				Water	
				Water	
				Water	
				Water	
				Water	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecalhydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Special Instructions/Note:

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

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

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: Colleen Duffy
Relinquished by: [Signature]
Relinquished by: [Signature]

Received by: [Signature] Date/Time: 10-27-22 1510
Received by: [Signature] Date/Time: 10/29/22 935
Received by:

Company: RAMBOLL
Company: Eurofins
Company: [Signature]

Custody Seals Intact: Yes No
Custody Seal No: 2-51768 / 2-51769 / 17-5020
Cooler Temperature(s) °C and Other Remarks: 3/1, 33



Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-224531-1

Login Number: 224531

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8.2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-224531-1

Login Number: 224531

List Number: 2

Creator: Oropeza, Salvador

List Source: Eurofins Sacramento

List Creation: 10/29/22 03:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is < /= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2051768/2051769/2051763
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1C&3.3C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is < 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Tracking #: 6058 8686 6379

Job: _____

SO / PD / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody-Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: 109 Corr. Factor: (+/-) _____ °C
 Ice Wet Gel Other _____
 Cooler Custody Seal: 2051769 2051768
 Cooler ID: 30f5
 Temp Observed: 3.3 °C Corrected: 3.3 °C
 From: Temp Blank Sample

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: DF Date: 10/28/22

Unpacking/Labeling The Samples	Yes	No	NA
COC is complete w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples require splitting/compositing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: SO Date: 11-29-22

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: SO Date: 11-29-22



Place Field Sheet Label Here

Tracking #: 6058 8646 6390

Job: _____

SO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: L09 Corr. Factor: (+/-) _____ °C
 Ice Wet Gel Other
 Cooler Custody Seal: 2051763
 Cooler ID: 5045
 Temp Observed: 3.1 °C Corrected: 3.1 °C
 From: Temp Blank Sample

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: JT Date: 10/28/22

Unpacking/Labeling The Samples	Yes	No	NA
COC is complete w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples require splitting/compositing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: SO Date: 10-29-22

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: SO Date: 10-29-22

Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-224531-1	PZ-226	96	101	115	107	101	95	102	93
500-224531-2	PZ-226 DUP	86	99	107	87	94	86	93	84
500-224531-3	MW-226	66	81	97	96	88	91	97	94
500-224531-4	MW-226 DUP	71	100	105	97	95	93	102	100
500-224531-5	MW-236	76	105	100	107	97	97	108	100
500-224531-7	EB-04	120	115	119	104	98	100	108	107
500-224531-8	FB-04	120	107	107	108	99	100	108	103
500-224531-9	AMEC_MW-17	110	118	122	121	108	103	114	109
500-224531-12	MW-235	94	111	114	100	100	107	114	109
500-224531-13	AMEC_MW-15	103	123	128	107	94	99	118	112
500-224531-14	AMEC_MW-14	93	112	118	122	91	94	108	105
500-224531-15	EB-07	140	134	139	141	103	110	128	126
500-224531-16	FB-07	97	103	101	96	103	95	98	94
500-224531-17	AMEC_MW-16A	77	96	101	102	100	80	93	87
500-224531-18	AMEC_MW-16	84	100	116	124		98	118	114
500-224531-18 - DL	AMEC_MW-16					97			
500-224531-19	MW-121	51	92	106	117		100	123	121
500-224531-19 - DL	MW-121					91			
500-224531-20	MW-121 DUP	48	90	96	108		91	111	107
500-224531-20 - DL	MW-121 DUP					91			
500-224531-21	MW-219	53	77	88	100		91	101	99
500-224531-21 - DL	MW-219					95			
500-224531-22	EB-11	115	107	106	102	99	92	113	115
500-224531-23	FB-11	99	92	91	92	91	81	94	84
LCS 320-628957/2-A	Lab Control Sample	110	105	113	108	93	96	98	93
LCS 320-628960/2-A	Lab Control Sample	93	93	94	92	95	84	90	89
LCSD 320-628957/3-A	Lab Control Sample Dup	110	106	113	119	90	96	103	98
LCSD 320-628960/3-A	Lab Control Sample Dup	98	97	98	101	95	85	93	86
MB 320-628957/1-A	Method Blank	118	116	114	115	116	103	108	95
MB 320-628960/1-A	Method Blank	91	92	91	92	97	96	118	86

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-224531-1	PZ-226	99	94	125	108	92	98	66	76
500-224531-2	PZ-226 DUP	82	72	107	97	83	93	59	66
500-224531-3	MW-226	100	97	109	95	90	97	73	84
500-224531-4	MW-226 DUP	98	102	114	103	92	101	71	83
500-224531-5	MW-236	94	94	110	106	96	103	73	84
500-224531-7	EB-04	100	94	123	109	100	104	73	81
500-224531-8	FB-04	97	90	118	103	89	99	76	88
500-224531-9	AMEC_MW-17	106	99	138	106	99	118	80	98
500-224531-12	MW-235	107	87	126	108	95	116	83	94
500-224531-13	AMEC_MW-15	112	89	133	99	96	115	80	93
500-224531-14	AMEC_MW-14	103	83	125	119	88	106	79	88
500-224531-15	EB-07	125	99	152 *5+	141	103	119	91	109
500-224531-16	FB-07	95	95	101	101	94	100	93	98
500-224531-17	AMEC_MW-16A	85	73	104	101	78	91	69	74
500-224531-18	AMEC_MW-16	108	107	132	126	90	112	82	91
500-224531-18 - DL	AMEC_MW-16								

Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-224531-19	MW-121	120	110	132	127	100	119	75	89
500-224531-19 - DL	MW-121								
500-224531-20	MW-121 DUP	103	87	125	121	95	109	68	72
500-224531-20 - DL	MW-121 DUP								
500-224531-21	MW-219	103	90	103	100	87	100	74	83
500-224531-21 - DL	MW-219								
500-224531-22	EB-11	112	93	108	96	85	106	92	100
500-224531-23	FB-11	89	82	99	91	78	85	66	72
LCS 320-628957/2-A	Lab Control Sample	98	86	122	101	94	99	71	77
LCS 320-628960/2-A	Lab Control Sample	86	80	106	95	79	84	71	73
LCSD 320-628957/3-A	Lab Control Sample Dup	99	93	123	108	93	95	72	74
LCSD 320-628960/3-A	Lab Control Sample Dup	94	84	106	100	83	94	73	82
MB 320-628957/1-A	Method Blank	99	91	133	126	104	102	69	79
MB 320-628960/1-A	Method Blank	92	75	101	92	91	112	66	78

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFm (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-224531-1	PZ-226	86	83	82	89	111	78	93	117
500-224531-2	PZ-226 DUP	72	66	69	72	106	85	81	115
500-224531-3	MW-226	84	86	86	90	107	114	116	91
500-224531-4	MW-226 DUP	82	90	89	97	113	114	115	107
500-224531-5	MW-236	86	89	92	96	115	101	108	111
500-224531-7	EB-04	84	94	92	104	117	95	103	117
500-224531-8	FB-04	79	90	90	96	112	92	92	120
500-224531-9	AMEC_MW-17	89	89	90	96	117	92	102	134
500-224531-12	MW-235	97	89	94	93	123	96	118	111
500-224531-13	AMEC_MW-15	92	87	98	93	148	91	114	123
500-224531-14	AMEC_MW-14	85	78	84	85	141	94	109	125
500-224531-15	EB-07	105	99	107	104	133	95	119	152 *5+
500-224531-16	FB-07	88	91	86	85	85	85	94	95
500-224531-17	AMEC_MW-16A	73	68	73	71	108	100	81	113
500-224531-18	AMEC_MW-16	93	92	97	96	148	103	120	123
500-224531-18 - DL	AMEC_MW-16								
500-224531-19	MW-121	103	93	105	107	126	98	117	119
500-224531-19 - DL	MW-121								
500-224531-20	MW-121 DUP	86	83	85	88	122	99	104	103
500-224531-20 - DL	MW-121 DUP								
500-224531-21	MW-219	81	86	91	95	94	99	96	90
500-224531-21 - DL	MW-219								
500-224531-22	EB-11	85	84	96	97	99	97	103	94
500-224531-23	FB-11	72	73	79	83	89	88	82	90
LCS 320-628957/2-A	Lab Control Sample	81	80	89	92	95	86	90	107
LCS 320-628960/2-A	Lab Control Sample	71	75	81	84	89	87	89	86
LCSD 320-628957/3-A	Lab Control Sample Dup	76	81	87	95	103	86	88	113
LCSD 320-628960/3-A	Lab Control Sample Dup	73	78	83	85	94	90	83	91
MB 320-628957/1-A	Method Blank	86	90	84	93	110	93	102	119
MB 320-628960/1-A	Method Blank	68	71	83	85	87	87	95	88

Isotope Dilution Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-224531-1	PZ-226	104
500-224531-2	PZ-226 DUP	86
500-224531-3	MW-226	113
500-224531-4	MW-226 DUP	113
500-224531-5	MW-236	149
500-224531-7	EB-04	115
500-224531-8	FB-04	101
500-224531-9	AMEC_MW-17	120
500-224531-12	MW-235	143
500-224531-13	AMEC_MW-15	132
500-224531-14	AMEC_MW-14	116
500-224531-15	EB-07	137
500-224531-16	FB-07	99
500-224531-17	AMEC_MW-16A	93
500-224531-18	AMEC_MW-16	127
500-224531-18 - DL	AMEC_MW-16	
500-224531-19	MW-121	123
500-224531-19 - DL	MW-121	
500-224531-20	MW-121 DUP	105
500-224531-20 - DL	MW-121 DUP	
500-224531-21	MW-219	104
500-224531-21 - DL	MW-219	
500-224531-22	EB-11	116
500-224531-23	FB-11	85
LCS 320-628957/2-A	Lab Control Sample	108
LCS 320-628960/2-A	Lab Control Sample	84
LCSD 320-628957/3-A	Lab Control Sample Dup	103
LCSD 320-628960/3-A	Lab Control Sample Dup	85
MB 320-628957/1-A	Method Blank	106
MB 320-628960/1-A	Method Blank	84

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M

Isotope Dilution Summary

Client: Ramboll US Corporation

Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-1

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

M242FTS = M2-4:2 FTS

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

M102FTS = 13C2 10:2 FTS

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 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Paul Lindquist
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee Wisconsin 53204

Generated 11/22/2022 8:56:36 AM

JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-224531-2

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Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Job ID: 500-224531-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-224531-2

Comments

No additional comments.

Receipt

The samples were received on 10/28/2022 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 4.8° C.

LCMS

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-628957.

Method: 3535_PFC

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628957 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. MW-228 (500-224531-6).

Method: 3535_PFC

Matrix: Aqueous

Method 3535: During the solid phase extraction process, the following samples contained non-settable particulates which clogged the solid phase extraction column: MW-228 (500-224531-6).

Method: 3535_PFC

Matrix: Aqueous

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

Detection Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Client Sample ID: MW-228

Lab Sample ID: 500-224531-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.6		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.1		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.1		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.1		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	39		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.0		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.57	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Sample Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-224531-6	MW-228	Water	10/25/22 16:05	10/28/22 10:10

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14
- 15
- 16

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Client Sample ID: MW-228

Lab Sample ID: 500-224531-6

Date Collected: 10/25/22 16:05

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.6		4.7	2.3	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluoropentanoic acid (PFPeA)	3.1		1.9	0.46	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorohexanoic acid (PFHxA)	3.1		1.9	0.55	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluoroheptanoic acid (PFHpA)	4.1		1.9	0.24	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorooctanoic acid (PFOA)	39		1.9	0.81	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorobutanesulfonic acid (PFBS)	3.0		1.9	0.19	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorohexanesulfonic acid (PFHxS)	0.57 J		1.9	0.54	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/31/22 04:39	11/16/22 14:16	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		10/31/22 04:39	11/16/22 14:16	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/31/22 04:39	11/16/22 14:16	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:39	11/16/22 14:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:39	11/16/22 14:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:39	11/16/22 14:16	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:39	11/16/22 14:16	1
NEtFOSE	<0.81		1.9	0.81	ng/L		10/31/22 04:39	11/16/22 14:16	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 14:16	1
6:2 FTS	<2.4		4.7	2.4	ng/L		10/31/22 04:39	11/16/22 14:16	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:39	11/16/22 14:16	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:39	11/16/22 14:16	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:39	11/16/22 14:16	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 14:16	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 14:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C5 PFPeA	90		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C2 PFHxA	102		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C4 PFHpA	90		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C4 PFOA	87		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C5 PFNA	88		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C2 PFDA	97		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C2 PFUnA	96		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C2 PFDoA	95		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C2 PFTeDA	83		25 - 150	10/31/22 04:39	11/16/22 14:16	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Client Sample ID: MW-228

Lab Sample ID: 500-224531-6

Date Collected: 10/25/22 16:05

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	96		25 - 150	10/31/22 04:39	11/16/22 14:16	1
18O2 PFHxS	96		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C4 PFOS	85		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C8 FOSA	92		10 - 150	10/31/22 04:39	11/16/22 14:16	1
d3-NMeFOSAA	67		25 - 150	10/31/22 04:39	11/16/22 14:16	1
d5-NEtFOSAA	80		25 - 150	10/31/22 04:39	11/16/22 14:16	1
d-N-MeFOSA-M	66		10 - 150	10/31/22 04:39	11/16/22 14:16	1
d-N-EtFOSA-M	68		10 - 150	10/31/22 04:39	11/16/22 14:16	1
d7-N-MeFOSE-M	76		10 - 150	10/31/22 04:39	11/16/22 14:16	1
d9-N-EtFOSE-M	82		10 - 150	10/31/22 04:39	11/16/22 14:16	1
M2-4:2 FTS	102		25 - 150	10/31/22 04:39	11/16/22 14:16	1
M2-6:2 FTS	79		25 - 150	10/31/22 04:39	11/16/22 14:16	1
M2-8:2 FTS	91		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C3 HFPO-DA	100		25 - 150	10/31/22 04:39	11/16/22 14:16	1
13C2 10:2 FTS	102		25 - 150	10/31/22 04:39	11/16/22 14:16	1

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

LCMS

Prep Batch: 628957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-6	MW-228	Total/NA	Water	3535	
MB 320-628957/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-628957/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-628957/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 633308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-6	MW-228	Total/NA	Water	537 (modified)	628957
MB 320-628957/1-A	Method Blank	Total/NA	Water	537 (modified)	628957
LCS 320-628957/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	628957
LCSD 320-628957/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	628957

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-628957/1-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628957

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 04:39	11/16/22 12:55	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 04:39	11/16/22 12:55	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:39	11/16/22 12:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:39	11/16/22 12:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:39	11/16/22 12:55	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:39	11/16/22 12:55	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 04:39	11/16/22 12:55	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:39	11/16/22 12:55	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:39	11/16/22 12:55	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:39	11/16/22 12:55	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:39	11/16/22 12:55	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:39	11/16/22 12:55	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:39	11/16/22 12:55	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:39	11/16/22 12:55	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	118		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C5 PFPeA	116		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFHxA	114		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C4 PFHpA	115		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C4 PFOA	116		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C5 PFNA	103		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFDA	108		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFUnA	95		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFDoA	99		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFTeDA	91		25 - 150	10/31/22 04:39	11/16/22 12:55	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628957/1-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628957

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	133		25 - 150	10/31/22 04:39	11/16/22 12:55	1
18O2 PFHxS	126		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C4 PFOS	104		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C8 FOSA	102		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d3-NMeFOSAA	69		25 - 150	10/31/22 04:39	11/16/22 12:55	1
d5-NEtFOSAA	79		25 - 150	10/31/22 04:39	11/16/22 12:55	1
d-N-MeFOSA-M	86		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d-N-EtFOSA-M	90		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d7-N-MeFOSE-M	84		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d9-N-EtFOSE-M	93		10 - 150	10/31/22 04:39	11/16/22 12:55	1
M2-4:2 FTS	110		25 - 150	10/31/22 04:39	11/16/22 12:55	1
M2-6:2 FTS	93		25 - 150	10/31/22 04:39	11/16/22 12:55	1
M2-8:2 FTS	102		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C3 HFPO-DA	119		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 10:2 FTS	106		25 - 150	10/31/22 04:39	11/16/22 12:55	1

Lab Sample ID: LCS 320-628957/2-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	41.6		ng/L		104	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.7		ng/L		107	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.2		ng/L		100	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	38.4		ng/L		96	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	41.2		ng/L		103	60 - 135
Perfluorononanoic acid (PFNA)	40.0	40.1		ng/L		100	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	36.4		ng/L		91	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	38.4		ng/L		96	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	37.3		ng/L		93	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	39.9		ng/L		100	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.3		ng/L		101	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	31.8		ng/L		89	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	36.2		ng/L		96	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.0		ng/L		104	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	42.3		ng/L		111	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	40.3		ng/L		108	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	42.4		ng/L		110	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	38.3		ng/L		99	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	38.5		ng/L		99	60 - 135

Eurofins Chicago

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628957/2-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	37.8		ng/L		94	60 - 135
NEtFOSA	40.0	42.9		ng/L		107	60 - 135
NMeFOSA	40.0	40.6		ng/L		101	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.3		ng/L		101	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.3		ng/L		101	60 - 135
NMeFOSE	40.0	38.8		ng/L		97	60 - 135
NEtFOSE	40.0	39.1		ng/L		98	60 - 135
4:2 FTS	37.5	37.2		ng/L		99	60 - 135
6:2 FTS	38.1	40.2		ng/L		106	60 - 135
8:2 FTS	38.4	41.2		ng/L		107	60 - 135
DONA	37.8	44.3		ng/L		117	60 - 135
HFPO-DA (GenX)	40.0	42.3		ng/L		106	60 - 135
F-53B Major	37.4	38.1		ng/L		102	60 - 135
F-53B Minor	37.8	38.6		ng/L		102	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	110		25 - 150
13C5 PFPeA	105		25 - 150
13C2 PFHxA	113		25 - 150
13C4 PFHpA	108		25 - 150
13C4 PFOA	93		25 - 150
13C5 PFNA	96		25 - 150
13C2 PFDA	98		25 - 150
13C2 PFUnA	93		25 - 150
13C2 PFDoA	98		25 - 150
13C2 PFTeDA	86		25 - 150
13C3 PFBS	122		25 - 150
18O2 PFHxS	101		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	99		10 - 150
d3-NMeFOSAA	71		25 - 150
d5-NEtFOSAA	77		25 - 150
d-N-MeFOSA-M	81		10 - 150
d-N-EtFOSA-M	80		10 - 150
d7-N-MeFOSE-M	89		10 - 150
d9-N-EtFOSE-M	92		10 - 150
M2-4:2 FTS	95		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	90		25 - 150
13C3 HFPO-DA	107		25 - 150
13C2 10:2 FTS	108		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628957/3-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	41.9		ng/L		105	60 - 135	1	30	
Perfluoropentanoic acid (PFPeA)	40.0	41.1		ng/L		103	60 - 135	4	30	
Perfluorohexanoic acid (PFHxA)	40.0	36.6		ng/L		91	60 - 135	9	30	
Perfluoroheptanoic acid (PFHpA)	40.0	33.9		ng/L		85	60 - 135	12	30	
Perfluorooctanoic acid (PFOA)	40.0	44.4		ng/L		111	60 - 135	7	30	
Perfluorononanoic acid (PFNA)	40.0	39.7		ng/L		99	60 - 135	1	30	
Perfluorodecanoic acid (PFDA)	40.0	41.2		ng/L		103	60 - 135	12	30	
Perfluoroundecanoic acid (PFUnA)	40.0	39.8		ng/L		99	60 - 135	4	30	
Perfluorododecanoic acid (PFDoA)	40.0	38.6		ng/L		96	60 - 135	3	30	
Perfluorotridecanoic acid (PFTriA)	40.0	40.5		ng/L		101	60 - 135	1	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	38.6		ng/L		97	60 - 135	4	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	31.5		ng/L		89	60 - 135	1	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.7		ng/L		95	60 - 135	1	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.5		ng/L		100	60 - 135	4	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	41.8		ng/L		109	60 - 135	1	30	
Perfluorooctanesulfonic acid (PFOS)	37.2	39.7		ng/L		107	60 - 135	2	30	
Perfluorononanesulfonic acid (PFNS)	38.5	42.8		ng/L		111	60 - 135	1	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	39.1		ng/L		101	60 - 135	2	30	
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.1		ng/L		101	60 - 135	2	30	
Perfluorooctanesulfonamide (FOSA)	40.0	36.9		ng/L		92	60 - 135	2	30	
NEtFOSA	40.0	42.7		ng/L		107	60 - 135	0	30	
NMeFOSA	40.0	42.2		ng/L		105	60 - 135	4	30	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.5		ng/L		106	60 - 135	5	30	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.4		ng/L		106	60 - 135	5	30	
NMeFOSE	40.0	41.6		ng/L		104	60 - 135	7	30	
NEtFOSE	40.0	39.6		ng/L		99	60 - 135	1	30	
4:2 FTS	37.5	33.1		ng/L		88	60 - 135	12	30	
6:2 FTS	38.1	38.7		ng/L		102	60 - 135	4	30	
8:2 FTS	38.4	40.3		ng/L		105	60 - 135	2	30	
DONA	37.8	47.4		ng/L		126	60 - 135	7	30	
HFPO-DA (GenX)	40.0	42.9		ng/L		107	60 - 135	1	30	
F-53B Major	37.4	40.1		ng/L		107	60 - 135	5	30	
F-53B Minor	37.8	39.3		ng/L		104	60 - 135	2	30	

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
¹³ C4 PFBA	110		25 - 150
¹³ C5 PFPeA	106		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628957/3-A
 Matrix: Water
 Analysis Batch: 633308

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 628957

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C2 PFHxA	113		25 - 150
13C4 PFHpA	119		25 - 150
13C4 PFOA	90		25 - 150
13C5 PFNA	96		25 - 150
13C2 PFDA	103		25 - 150
13C2 PFUnA	98		25 - 150
13C2 PFDoA	99		25 - 150
13C2 PFTeDA	93		25 - 150
13C3 PFBS	123		25 - 150
18O2 PFHxS	108		25 - 150
13C4 PFOS	93		25 - 150
13C8 FOSA	95		10 - 150
d3-NMeFOSAA	72		25 - 150
d5-NEtFOSAA	74		25 - 150
d-N-MeFOSA-M	76		10 - 150
d-N-EtFOSA-M	81		10 - 150
d7-N-MeFOSE-M	87		10 - 150
d9-N-EtFOSE-M	95		10 - 150
M2-4:2 FTS	103		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	113		25 - 150
13C2 10:2 FTS	103		25 - 150

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Client Sample ID: MW-228

Lab Sample ID: 500-224531-6

Date Collected: 10/25/22 16:05

Matrix: Water

Date Received: 10/28/22 10:10

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 14:16

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Accreditation/Certification Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Laboratory: Eurofins Sacramento

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

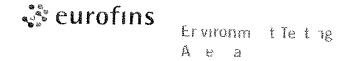
Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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Eurofins TestAmerica, Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



Client Information		Sampler <i>COLLEEN DUFFY</i>	Lab PM Fredrick Sandie	Carrier Tracking No(s)	COC No 500-87887-39456 1												
Client Contact: Paul Lindquist		Phone	E Mail sandra.fredrick@eurofinset.com	State of Origin WISCONSIN	Page Page 1 of 3												
Company Ramboll US Corporation		PWSID	Analysis Requested														
Address 234 W Florida Street		Due Date Requested	Job # <i>500-224531</i> Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDTA Z other (specify) Other:														
City Milwaukee		TAT Requested (days)															
State/Zip WI 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No															
Phone 262-901-3510(Tel)		PO # 1690019647															
Email plindquist@ramboll.com		WO #															
Project Name Former Mirro Plant No 9 1690019647		Project # 50018382	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> PFAS Extended List (36 Analytes) PFC_IDA_WI VOCs 8260B 6020A (Metals) <i>FILTERED</i> PCBs 8082A Total Number of containers														
Site		SSOW#															
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	AI	Sb	As	Cr	Pb	PCBs 8082A	Total Number of containers	Special Instructions/Note
1	PZ-226	10-25-22	853	G	Water			X									
2	PZ-226 DUP		858	G	Water			X									
3	MW-226		1045	G	Water			X									
4	MW-226 DUP		1050	G	Water			X									
5	MW-236		1455	G	Water			X									
6	MW-228		1605	G	Water			X									
7	EB-04		1630	G	Water			X									
8	FB-04		1635	G	Water			X									
9	AMEC-MW-17	10-26-22	847	G	Water			X		X							
10	MW-218		1037	G	Water			X									
11	MW-217		1219	G	Water			X	X								
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements															
Empty Kit Relinquished by		Date	Time	Method of Shipment													
Relinquished by <i>Colleen Duffy</i>		Date/Time 10-27-22 1510	Company RAMBOLL	Received by <i>[Signature]</i>		Date/Time 10-27-22 1510	Company Eurofins	Received by <i>[Signature]</i>		Date/Time 10-27-22 1010	Company Eurofins						
Relinquished by <i>[Signature]</i>		Date/Time 10-27-22 1700	Company Eurofins	Received by <i>[Signature]</i>		Date/Time 10-28-22 1010	Company Eurofins	Received by <i>[Signature]</i>		Date/Time 10-28-22 1010	Company Eurofins						
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks.			416 → 48, 25 → 20										

Eurofins TestAmerica, Chicago

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Chain of Custody Record



Er v n f er T st ig
 Ar er

Client Information		Sampler <i>COLLEEN DUFFY</i>		Lab PM Fredrick Sandie		Carrier Tracking No(s)		COC No 500-87887-39456 1													
Client Contact Paul Lindquist		Phone		E-Mail sandra.fredrick@eurofinset.com		State of Origin <i>WISCONSIN</i>		Page 2 of 3													
Company Ramboll US Corporation				PWSID		Analysis Requested															
Address 234 W Florida Street		Due Date Requested		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFAS Extended List (36 Analytes) PFC_IDA_WI		VOCs 8280B		6020A (Metals) <i>FILTERED</i>		PCBs 8082A		Job # <i>500-224531</i>					
City Milwaukee		TAT Requested (days) <i>STANDARD</i>														Preservation Codes					
State Zip WI 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No														A HCL M Hexane					
Phone 262-901-3510(Tel)		PO # 1690019647														B NaOH N None					
Email plindquist@ramboll.com		WO #:														C Zn Acetate O AsNaO2					
Project Name Former Mirro Plant No 9 1690019647		Project # 50018382		D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3		G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate		I Ice U Acetone		J DI Water V MCAA		K EDTA W pH 4-5		L EDTA Z other (specify)	
Site		SSOW#		Other:		Total Number of Containers		Special Instructions/Note													
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:											
<i>12</i> MW-235		<i>10-26-22</i>		<i>1318</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>13</i> AMEC-MW-15				<i>1456</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>14</i> AMEC-MW-14				<i>1628</i>		<i>G</i>		<i>Water</i>		<i>X</i>		<i>X</i>									
<i>15</i> EB-07				<i>1650</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>16</i> EB-07 FB-07		<i>↓</i>		<i>1655</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>17</i> AMEC-MW-16A		<i>10-27-22</i>		<i>0818</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>18</i> AMEC-MW-16				<i>0910</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>19</i> MW-121				<i>1006</i>		<i>G</i>		<i>Water</i>		<i>X</i>		<i>X</i>									
<i>20</i> MW-121 DUP				<i>1011</i>		<i>G</i>		<i>Water</i>		<i>X</i>		<i>X</i>									
<i>21</i> MW-219				<i>1101</i>		<i>G</i>		<i>Water</i>		<i>X</i>		<i>X</i>									
<i>22</i> EB-11		<i>↓</i>		<i>1120</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Deliverable Requested I II III IV Other (specify)										Special Instructions/QC Requirements											
Empty Kit Relinquished by				Date		Time		Method of Shipment													
Relinquished by <i>Colleen Duffy</i>		Date/Time <i>10-27-22-1510</i>		Company <i>Ramboll</i>		Received by <i>Kevin</i>		Date/Time <i>10/27/22 1510</i>		Company <i>Eurofins</i>											
Relinquished by <i>Kevin</i>		Date/Time <i>10/27/22 1700</i>		Company <i>Eurofins</i>		Received by <i>Shirley Smith</i>		Date/Time <i>10/28/22 1018</i>		Company <i>Eurofins</i>											
Relinquished by		Date/Time		Company		Received by		Date/Time		Company											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks																	

Eurofins TestAmerica, Chicago

2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

Client Information		Sampler: COLLEEN DUFFY		Lab PM: Fredrick Sandie		Carrier Tracking No(s)		COC No: 500-87887-39456 1							
Client Contact: Paul Lindquist		Phone		E-Mail: sandra.fredrick@eurofinset.com		State of Origin: WISCONSIN		Page 3 of 3							
Company: Ramboll US Corporation				PWSID		Analysis Requested									
Address: 234 W Florida Street		Due Date Requested		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFC_IDA_WI		Total Number of Containers		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)			
City: Milwaukee		TAT Requested (days): STANDARD													
State Zip: WI 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No													
Phone: 262-901-3510(Tel)		PO #: 1690019647													
Email: plindquist@ramboll.com		WO #		VOCs 8260B		6020A (Metals)		PCBs 8082A							
Project Name: Former Mirro Plant No 9 1690019647		Project #: 50018382		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code			
Site		SSOW#										Special Instructions/Note			
23 24 		10-27-22 1125		G		Water									
		-		-		-		Water							
								Water							
								Water							
								Water							
								Water							
								Water							
								Water							
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements									
Empty Kit Relinquished by			Date			Time			Method of Shipment						
Relinquished by:		Date/Time: 10-27-22 1510		Company: RAMBOLL		Received by:		Date/Time: 10-27-22 1510		Company: Eurofins					
Relinquished by:		Date/Time: 10-27-22 1700		Company: Eurofins		Received by:		Date/Time: 10/28/22 1010		Company: Eurofins					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:					
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks											

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 52.60 LB
CAD: Q269688/CAFE3616

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

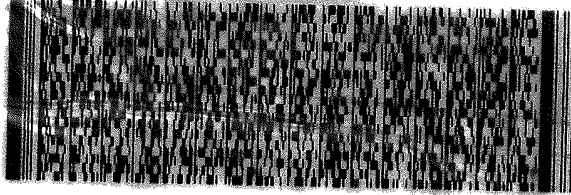


500-224531 Waybi

5771/ARSF/4324

UNIVERSITY PARK IL 60484

(262) 202-5955
INV: REF: PO: DEPT:



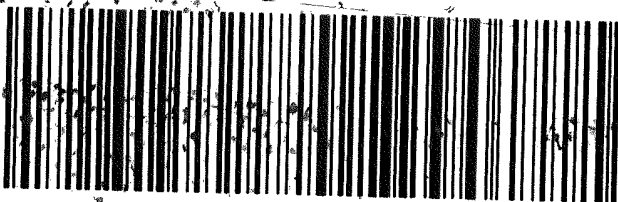
J2220220328014V

1 of 7
TRK# 6058 8696 6405
0261
MASTER

FRI - 28 OCT 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 51.20 LB
CAD: Q269688/CAFE3616

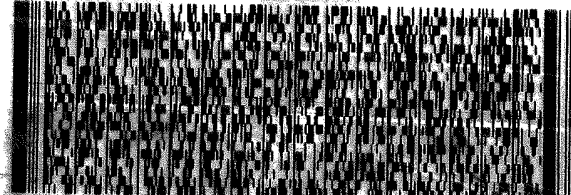
TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

BILL RECIPIENT

5771/ARSF/4324

UNIVERSITY PARK IL 60484

(262) 202-5955
INV: REF: PO: DEPT:



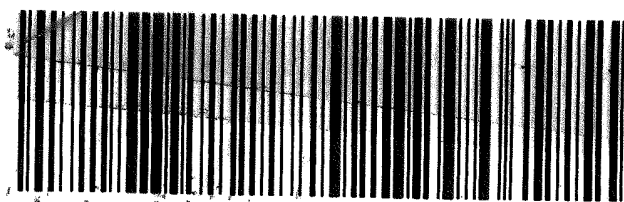
J2220220328014V

3 of 7
MPS# 6058 8696 6427
0263
Mstr# 6058 8696 6405

FRI - 28 OCT 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



Client Information		Lab PM: Frederick, Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456.1				
Client Contact: Paul Lindquist		E-Mail: sandra.frederick@eurofinset.com	State of Origin: WISCONSIN	Page: 1 of 3				
Company: Ramboll US Corporation		PWSID:	Job #:					
Address: 234 W Florida Street		Analysis Requested:						
City: Milwaukee		TAT Requested (days): STANDARD						
State, Zip: WI, 53204		Compliance Project: Δ Yes Δ No						
Phone: 262-901-3510(Tel)		PO #: 1690019647						
Email: plindquist@ramboll.com		WO #: 50018382						
Project Name: Former Mirro Plant No 9 - 1690019647		Project #: 50018382						
Site:		SSOW#:						
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=organic, A=air)	Analysis Requested	Preservation Codes:	Special Instructions/Note:
PZ - 226		10-25-22	853	G	Water			
PZ - 226 DUP			858	G	Water			
MW - 226			1045	G	Water			
MW - 226 DUP			1050	G	Water			
MW - 236			1455	G	Water			
MW - 228			1605	G	Water			
EB-04			1630	G	Water			
FB-04			1635	G	Water			
AMEC-MW-17		10-26-22	847	G	Water			
MW-218			1037	G	Water			
MW-217			1219	G	Water			
Possible Hazard Identification		Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months						
Relinquished by: <i>Colleen Duffy</i>		Date/Time: 10-27-22 1510		Company: RAMBOLL		Received by: <i>[Signature]</i>		
Relinquished by: <i>[Signature]</i>		Date/Time: 10-27-22 1700		Company: Eurofins		Received by: <i>[Signature]</i>		
Relinquished by:		Date/Time:		Company:		Received by:		
Custody Seal No.: 2051768/2051769/2051763		Custody Seal No.: 31-133		Cooler Temperature(s) °C and Other Remarks:				

*MISSING AND SOW-282W
DMS17 AND SOW282W*



Chain of Custody Record

Client Information		Sampler: COLLEEN DUFFY	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	GOC No: 500-87887-39456-1
Client Contact: Paul Lindquist		Phone:	E-Mail: sandra.fredrick@eurofins.com	State of Origin: WISCONSIN	Page: Page 2 of 3
Company: Ramboll US Corporation		PWSID:		Job #:	
Address: 234 W Florida Street		Due Date Requested:		Analysis Requested	
City: Milwaukee		TAT Requested (days): STANDARD		PFAS, Extended List (36 Analytes) - PFC_IDA_WI	
State, Zip: WI, 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		VOCs - 82608	
Phone: 262-901-3510(Tel)		PO #: 1690019647		6020A (Metals)	
Email: plindquist@ramboll.com		WO #: 50018382		PCBs - 8082A	
Project Name: Former Mirro Plant No 9 - 1690019647		SSOW#:		Special Instructions/Note:	
Site:		Matrix (Liquid, Solid, On-surface, BT-Tissue, Air)		Other:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix
MW-235	AMEC-MW-15	10-26-22	1318	G	Water
	AMEC-MW-14		1456	G	Water
	EB-07		1628	G	Water
	EB-07		1650	G	Water
	AMEC-MW-16A		1655	G	Water
	AMEC-MW-16	10-27-22	0818	G	Water
	MW-121		0910	G	Water
	MW-121 Dup		1006	G	Water
	MW-219		1011	G	Water
	EB-11		1101	G	Water
			1120	G	Water
Possible Hazard Identification					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: Colleen Duffy		Date: 10-27-22	Time: 1510	Company: Eurofins	
Relinquished by: [Signature]		Date: 10-27-22	Time: 1700	Company: Eurofins	
Relinquished by: [Signature]		Date:	Time:	Company:	
Custody Seal Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: 2051763 / 2051769 / 2051768		Cooler Temperature(s) °C and Other Remarks: 3 / 33	

Chain of Custody Record



Client Information Client Contact: Paul Lindquist Company: Ramboll US Corporation Address: 234 W Florida Street City: Milwaukee State, Zip: WI, 53204 Phone: 262-901-3510(Tel) Email: plindquist@ramboll.com Project Name: Former Mirro Plant No 9 - 1690019647 Site:		Lab PM: Fredrick, Sandie E-Mail: sandra.fredrick@eurofinsel.com State of Origin: WISCONSIN Carrier Tracking No(s): 500-87887-39456.1 Page: Page 3 of 3 Job #:	
Due Date Requested: TAT Requested (days): STANDARD Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: 1690019647 WO #:		Analysis Requested VOCs - 8260B PAs, Extended List (36 Analytes) - PFC, IDA, WI 5020A (Metals) PCBs - 8082A	
Sample Identification FB-11 TRIP BLANK 1 Date: 10/27/22 Signature: [Signature]		Matrix (Water, Swastol, Overstabil, BT-Tissue, A-MAP) Sample Type (C=Comp, G=grab) Sample Time Sample Date Matrix: Water Sample Type: G Sample Time: 1125 Sample Date: 10-27-22	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Method of Shipment: Date/Time: 10-27-22 1510 Date/Time: 10/28/22 935 Date/Time:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No: 2051768 / 2051769 / 2051770		Cooler Temperature(s) °C and Other Remarks: 31, 33	



Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-224531-2

Login Number: 224531

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8.2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-224531-2

Login Number: 224531

List Number: 2

Creator: Oropeza, Salvador

List Source: Eurofins Sacramento

List Creation: 10/29/22 03:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2051768/2051769/2051763
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1C&3.3C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-2

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-224531-6	MW-228	78	90	102	90	87	88	97	96
LCS 320-628957/2-A	Lab Control Sample	110	105	113	108	93	96	98	93
LCSD 320-628957/3-A	Lab Control Sample Dup	110	106	113	119	90	96	103	98
MB 320-628957/1-A	Method Blank	118	116	114	115	116	103	108	95

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-224531-6	MW-228	95	83	96	96	85	92	67	80
LCS 320-628957/2-A	Lab Control Sample	98	86	122	101	94	99	71	77
LCSD 320-628957/3-A	Lab Control Sample Dup	99	93	123	108	93	95	72	74
MB 320-628957/1-A	Method Blank	99	91	133	126	104	102	69	79

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-224531-6	MW-228	66	68	76	82	102	79	91	100
LCS 320-628957/2-A	Lab Control Sample	81	80	89	92	95	86	90	107
LCSD 320-628957/3-A	Lab Control Sample Dup	76	81	87	95	103	86	88	113
MB 320-628957/1-A	Method Blank	86	90	84	93	110	93	102	119

		M102FTS (25-150)
500-224531-6	MW-228	102
LCS 320-628957/2-A	Lab Control Sample	108
LCSD 320-628957/3-A	Lab Control Sample Dup	103
MB 320-628957/1-A	Method Blank	106

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- dMeFOSA = d-N-MeFOSA-M
- dEtFOSA = d-N-EtFOSA-M
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS

Isotope Dilution Summary

Client: Ramboll US Corporation

Project/Site: Former Mirro Plant No 9 - 1690019647

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

M102FTS = 13C2 10:2 FTS

Job ID: 500-224531-2

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Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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

Authorization



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11/22/2022 8:56:36 AM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Lindquist
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee Wisconsin 53204

Generated 11/22/2022 8:59:00 AM

JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-224531-3

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Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Job ID: 500-224531-3

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-224531-3

Comments

No additional comments.

Receipt

The samples were received on 10/28/2022 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 4.8° C.

GC/MS VOA

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

LCMS

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-628957.

Method: 3535_PFC

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628957 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. MW-218 (500-224531-10).

Method: 3535_PFC

Matrix: Aqueous

Method 3535: During the solid phase extraction process, the following samples contained non-settable particulates which clogged the solid phase extraction column: MW-218 (500-224531-10).

Method: 3535_PFC

Matrix: Aqueous

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

Detection Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Client Sample ID: MW-218

Lab Sample ID: 500-224531-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.6		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.1		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.3		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.3		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	73		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.1		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.91	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-217

Lab Sample ID: 500-224531-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.2	J	4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.67	J	1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.4	J	1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.77	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.3		1.8	0.78	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-224531-10	MW-218	Water	10/26/22 10:37	10/28/22 10:10
500-224531-11	MW-217	Water	10/26/22 12:19	10/28/22 10:10

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- 16
- 17

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Client Sample ID: MW-218

Lab Sample ID: 500-224531-10

Date Collected: 10/26/22 10:37

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.6		4.8	2.3	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluoropentanoic acid (PFPeA)	2.1		1.9	0.47	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorohexanoic acid (PFHxA)	2.3		1.9	0.55	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluoroheptanoic acid (PFHpA)	2.3		1.9	0.24	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorooctanoic acid (PFOA)	73		1.9	0.81	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorobutanesulfonic acid (PFBS)	2.1		1.9	0.19	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorohexanesulfonic acid (PFHxS)	0.91	J	1.9	0.54	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/31/22 04:39	11/16/22 15:27	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		10/31/22 04:39	11/16/22 15:27	1
NEtFOSA	<0.83		1.9	0.83	ng/L		10/31/22 04:39	11/16/22 15:27	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:39	11/16/22 15:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		10/31/22 04:39	11/16/22 15:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:39	11/16/22 15:27	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:39	11/16/22 15:27	1
NEtFOSE	<0.81		1.9	0.81	ng/L		10/31/22 04:39	11/16/22 15:27	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 15:27	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:39	11/16/22 15:27	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:39	11/16/22 15:27	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:39	11/16/22 15:27	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:39	11/16/22 15:27	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:39	11/16/22 15:27	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:39	11/16/22 15:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C5 PFPeA	108		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C2 PFHxA	112		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C4 PFHpA	98		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C4 PFOA	90		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C5 PFNA	89		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C2 PFDA	97		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C2 PFUnA	95		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C2 PFDoA	95		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C2 PFTeDA	78		25 - 150	10/31/22 04:39	11/16/22 15:27	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Client Sample ID: MW-218
Date Collected: 10/26/22 10:37
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-10
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	110		25 - 150	10/31/22 04:39	11/16/22 15:27	1
18O2 PFHxS	99		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C4 PFOS	88		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C8 FOSA	100		10 - 150	10/31/22 04:39	11/16/22 15:27	1
d3-NMeFOSAA	72		25 - 150	10/31/22 04:39	11/16/22 15:27	1
d5-NEtFOSAA	85		25 - 150	10/31/22 04:39	11/16/22 15:27	1
d-N-MeFOSA-M	83		10 - 150	10/31/22 04:39	11/16/22 15:27	1
d-N-EtFOSA-M	81		10 - 150	10/31/22 04:39	11/16/22 15:27	1
d7-N-MeFOSE-M	84		10 - 150	10/31/22 04:39	11/16/22 15:27	1
d9-N-EtFOSE-M	84		10 - 150	10/31/22 04:39	11/16/22 15:27	1
M2-4:2 FTS	112		25 - 150	10/31/22 04:39	11/16/22 15:27	1
M2-6:2 FTS	86		25 - 150	10/31/22 04:39	11/16/22 15:27	1
M2-8:2 FTS	100		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C3 HFPO-DA	110		25 - 150	10/31/22 04:39	11/16/22 15:27	1
13C2 10:2 FTS	108		25 - 150	10/31/22 04:39	11/16/22 15:27	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Client Sample ID: MW-217

Lab Sample ID: 500-224531-11

Date Collected: 10/26/22 12:19

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/06/22 20:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 20:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 20:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 20:24	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 20:24	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 20:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 20:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 20:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 20:24	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 20:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 20:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 20:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 20:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 20:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 20:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 20:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 20:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 20:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 20:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 20:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 20:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 20:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 20:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 20:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 20:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 20:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 20:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 20:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 20:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 20:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/06/22 20:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 20:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 20:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 20:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 20:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 20:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/06/22 20:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 20:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/06/22 20:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/06/22 20:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 20:24	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 20:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 20:24	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 20:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 20:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 20:24	1
Toluene	<0.15		0.50	0.15	ug/L			11/06/22 20:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 20:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 20:24	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Client Sample ID: MW-217

Lab Sample ID: 500-224531-11

Date Collected: 10/26/22 12:19

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 20:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 20:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 20:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 20:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/06/22 20:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 20:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 20:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/06/22 20:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/06/22 20:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 20:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/06/22 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		72 - 124		11/06/22 20:24	1
Dibromofluoromethane (Surr)	105		75 - 120		11/06/22 20:24	1
1,2-Dichloroethane-d4 (Surr)	110		75 - 126		11/06/22 20:24	1
Toluene-d8 (Surr)	99		75 - 120		11/06/22 20:24	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.2	J	4.6	2.2	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluoropentanoic acid (PFPeA)	0.67	J	1.8	0.45	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorohexanoic acid (PFHxA)	1.4	J	1.8	0.53	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluoroheptanoic acid (PFHpA)	0.77	J	1.8	0.23	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorooctanoic acid (PFOA)	2.3		1.8	0.78	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/31/22 04:39	11/16/22 15:37	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/31/22 04:39	11/16/22 15:37	1
NEtFOSA	<0.80		1.8	0.80	ng/L		10/31/22 04:39	11/16/22 15:37	1
NMeFOSA	<0.40		1.8	0.40	ng/L		10/31/22 04:39	11/16/22 15:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 04:39	11/16/22 15:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 04:39	11/16/22 15:37	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:39	11/16/22 15:37	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/31/22 04:39	11/16/22 15:37	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Client Sample ID: MW-217

Lab Sample ID: 500-224531-11

Date Collected: 10/26/22 12:19

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 04:39	11/16/22 15:37	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 04:39	11/16/22 15:37	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 04:39	11/16/22 15:37	1
DONA	<0.37		1.8	0.37	ng/L		10/31/22 04:39	11/16/22 15:37	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:39	11/16/22 15:37	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 04:39	11/16/22 15:37	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:39	11/16/22 15:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	88		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C5 PFPeA	117		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C2 PFHxA	111		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C4 PFHpA	118		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C4 PFOA	106		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C5 PFNA	100		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C2 PFDA	111		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C2 PFUnA	106		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C2 PFDoA	105		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C2 PFTeDA	94		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C3 PFBS	126		25 - 150				10/31/22 04:39	11/16/22 15:37	1
18O2 PFHxS	111		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C4 PFOS	95		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C8 FOSA	111		10 - 150				10/31/22 04:39	11/16/22 15:37	1
d3-NMeFOSAA	78		25 - 150				10/31/22 04:39	11/16/22 15:37	1
d5-NEtFOSAA	91		25 - 150				10/31/22 04:39	11/16/22 15:37	1
d-N-MeFOSA-M	81		10 - 150				10/31/22 04:39	11/16/22 15:37	1
d-N-EtFOSA-M	86		10 - 150				10/31/22 04:39	11/16/22 15:37	1
d7-N-MeFOSE-M	80		10 - 150				10/31/22 04:39	11/16/22 15:37	1
d9-N-EtFOSE-M	91		10 - 150				10/31/22 04:39	11/16/22 15:37	1
M2-4:2 FTS	131		25 - 150				10/31/22 04:39	11/16/22 15:37	1
M2-6:2 FTS	100		25 - 150				10/31/22 04:39	11/16/22 15:37	1
M2-8:2 FTS	102		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C3 HFPO-DA	119		25 - 150				10/31/22 04:39	11/16/22 15:37	1
13C2 10:2 FTS	116		25 - 150				10/31/22 04:39	11/16/22 15:37	1

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

GC/MS VOA

Analysis Batch: 683388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-11	MW-217	Total/NA	Water	8260B	

LCMS

Prep Batch: 628957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-10	MW-218	Total/NA	Water	3535	
500-224531-11	MW-217	Total/NA	Water	3535	
MB 320-628957/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-628957/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-628957/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 633308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224531-10	MW-218	Total/NA	Water	537 (modified)	628957
500-224531-11	MW-217	Total/NA	Water	537 (modified)	628957
MB 320-628957/1-A	Method Blank	Total/NA	Water	537 (modified)	628957
LCS 320-628957/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	628957
LCSD 320-628957/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	628957

Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-224531-11	MW-217	106	105	110	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-628957/1-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628957

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 04:39	11/16/22 12:55	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 04:39	11/16/22 12:55	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 04:39	11/16/22 12:55	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:39	11/16/22 12:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:39	11/16/22 12:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:39	11/16/22 12:55	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:39	11/16/22 12:55	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 04:39	11/16/22 12:55	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:39	11/16/22 12:55	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:39	11/16/22 12:55	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:39	11/16/22 12:55	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:39	11/16/22 12:55	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:39	11/16/22 12:55	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:39	11/16/22 12:55	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:39	11/16/22 12:55	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	118		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C5 PFPeA	116		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFHxA	114		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C4 PFHpA	115		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C4 PFOA	116		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C5 PFNA	103		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFDA	108		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFUnA	95		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFDoA	99		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 PFTeDA	91		25 - 150	10/31/22 04:39	11/16/22 12:55	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628957/1-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628957

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	133		25 - 150	10/31/22 04:39	11/16/22 12:55	1
18O2 PFHxS	126		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C4 PFOS	104		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C8 FOSA	102		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d3-NMeFOSAA	69		25 - 150	10/31/22 04:39	11/16/22 12:55	1
d5-NEtFOSAA	79		25 - 150	10/31/22 04:39	11/16/22 12:55	1
d-N-MeFOSA-M	86		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d-N-EtFOSA-M	90		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d7-N-MeFOSE-M	84		10 - 150	10/31/22 04:39	11/16/22 12:55	1
d9-N-EtFOSE-M	93		10 - 150	10/31/22 04:39	11/16/22 12:55	1
M2-4:2 FTS	110		25 - 150	10/31/22 04:39	11/16/22 12:55	1
M2-6:2 FTS	93		25 - 150	10/31/22 04:39	11/16/22 12:55	1
M2-8:2 FTS	102		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C3 HFPO-DA	119		25 - 150	10/31/22 04:39	11/16/22 12:55	1
13C2 10:2 FTS	106		25 - 150	10/31/22 04:39	11/16/22 12:55	1

Lab Sample ID: LCS 320-628957/2-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	41.6		ng/L		104	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.7		ng/L		107	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.2		ng/L		100	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	38.4		ng/L		96	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	41.2		ng/L		103	60 - 135
Perfluorononanoic acid (PFNA)	40.0	40.1		ng/L		100	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	36.4		ng/L		91	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	38.4		ng/L		96	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	37.3		ng/L		93	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	39.9		ng/L		100	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.3		ng/L		101	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	31.8		ng/L		89	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	36.2		ng/L		96	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.0		ng/L		104	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	42.3		ng/L		111	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	40.3		ng/L		108	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	42.4		ng/L		110	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	38.3		ng/L		99	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	38.5		ng/L		99	60 - 135

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628957/2-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	37.8		ng/L		94	60 - 135
NEtFOSA	40.0	42.9		ng/L		107	60 - 135
NMeFOSA	40.0	40.6		ng/L		101	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.3		ng/L		101	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.3		ng/L		101	60 - 135
NMeFOSE	40.0	38.8		ng/L		97	60 - 135
NEtFOSE	40.0	39.1		ng/L		98	60 - 135
4:2 FTS	37.5	37.2		ng/L		99	60 - 135
6:2 FTS	38.1	40.2		ng/L		106	60 - 135
8:2 FTS	38.4	41.2		ng/L		107	60 - 135
DONA	37.8	44.3		ng/L		117	60 - 135
HFPO-DA (GenX)	40.0	42.3		ng/L		106	60 - 135
F-53B Major	37.4	38.1		ng/L		102	60 - 135
F-53B Minor	37.8	38.6		ng/L		102	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	110		25 - 150
13C5 PFPeA	105		25 - 150
13C2 PFHxA	113		25 - 150
13C4 PFHpA	108		25 - 150
13C4 PFOA	93		25 - 150
13C5 PFNA	96		25 - 150
13C2 PFDA	98		25 - 150
13C2 PFUnA	93		25 - 150
13C2 PFDoA	98		25 - 150
13C2 PFTeDA	86		25 - 150
13C3 PFBS	122		25 - 150
18O2 PFHxS	101		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	99		10 - 150
d3-NMeFOSAA	71		25 - 150
d5-NEtFOSAA	77		25 - 150
d-N-MeFOSA-M	81		10 - 150
d-N-EtFOSA-M	80		10 - 150
d7-N-MeFOSE-M	89		10 - 150
d9-N-EtFOSE-M	92		10 - 150
M2-4:2 FTS	95		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	90		25 - 150
13C3 HFPO-DA	107		25 - 150
13C2 10:2 FTS	108		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628957/3-A
Matrix: Water
Analysis Batch: 633308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	41.9		ng/L		105	60 - 135	1	30	
Perfluoropentanoic acid (PFPeA)	40.0	41.1		ng/L		103	60 - 135	4	30	
Perfluorohexanoic acid (PFHxA)	40.0	36.6		ng/L		91	60 - 135	9	30	
Perfluoroheptanoic acid (PFHpA)	40.0	33.9		ng/L		85	60 - 135	12	30	
Perfluorooctanoic acid (PFOA)	40.0	44.4		ng/L		111	60 - 135	7	30	
Perfluorononanoic acid (PFNA)	40.0	39.7		ng/L		99	60 - 135	1	30	
Perfluorodecanoic acid (PFDA)	40.0	41.2		ng/L		103	60 - 135	12	30	
Perfluoroundecanoic acid (PFUnA)	40.0	39.8		ng/L		99	60 - 135	4	30	
Perfluorododecanoic acid (PFDoA)	40.0	38.6		ng/L		96	60 - 135	3	30	
Perfluorotridecanoic acid (PFTriA)	40.0	40.5		ng/L		101	60 - 135	1	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	38.6		ng/L		97	60 - 135	4	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	31.5		ng/L		89	60 - 135	1	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.7		ng/L		95	60 - 135	1	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.5		ng/L		100	60 - 135	4	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	41.8		ng/L		109	60 - 135	1	30	
Perfluorooctanesulfonic acid (PFOS)	37.2	39.7		ng/L		107	60 - 135	2	30	
Perfluorononanesulfonic acid (PFNS)	38.5	42.8		ng/L		111	60 - 135	1	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	39.1		ng/L		101	60 - 135	2	30	
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.1		ng/L		101	60 - 135	2	30	
Perfluorooctanesulfonamide (FOSA)	40.0	36.9		ng/L		92	60 - 135	2	30	
NEtFOSA	40.0	42.7		ng/L		107	60 - 135	0	30	
NMeFOSA	40.0	42.2		ng/L		105	60 - 135	4	30	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.5		ng/L		106	60 - 135	5	30	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.4		ng/L		106	60 - 135	5	30	
NMeFOSE	40.0	41.6		ng/L		104	60 - 135	7	30	
NEtFOSE	40.0	39.6		ng/L		99	60 - 135	1	30	
4:2 FTS	37.5	33.1		ng/L		88	60 - 135	12	30	
6:2 FTS	38.1	38.7		ng/L		102	60 - 135	4	30	
8:2 FTS	38.4	40.3		ng/L		105	60 - 135	2	30	
DONA	37.8	47.4		ng/L		126	60 - 135	7	30	
HFPO-DA (GenX)	40.0	42.9		ng/L		107	60 - 135	1	30	
F-53B Major	37.4	40.1		ng/L		107	60 - 135	5	30	
F-53B Minor	37.8	39.3		ng/L		104	60 - 135	2	30	

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
¹³ C4 PFBA	110		25 - 150
¹³ C5 PFPeA	106		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628957/3-A
 Matrix: Water
 Analysis Batch: 633308

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 628957

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C2 PFHxA	113		25 - 150
13C4 PFHpA	119		25 - 150
13C4 PFOA	90		25 - 150
13C5 PFNA	96		25 - 150
13C2 PFDA	103		25 - 150
13C2 PFUnA	98		25 - 150
13C2 PFDoA	99		25 - 150
13C2 PFTeDA	93		25 - 150
13C3 PFBS	123		25 - 150
18O2 PFHxS	108		25 - 150
13C4 PFOS	93		25 - 150
13C8 FOSA	95		10 - 150
d3-NMeFOSAA	72		25 - 150
d5-NEtFOSAA	74		25 - 150
d-N-MeFOSA-M	76		10 - 150
d-N-EtFOSA-M	81		10 - 150
d7-N-MeFOSE-M	87		10 - 150
d9-N-EtFOSE-M	95		10 - 150
M2-4:2 FTS	103		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	113		25 - 150
13C2 10:2 FTS	103		25 - 150

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Client Sample ID: MW-218

Date Collected: 10/26/22 10:37

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 15:27

Client Sample ID: MW-217

Date Collected: 10/26/22 12:19

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224531-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683388	W1T	EET CHI	11/06/22 20:24
Total/NA	Prep	3535			628957	RLT	EET SAC	10/31/22 04:39
Total/NA	Analysis	537 (modified)		1	633308	RS1	EET SAC	11/16/22 15:37

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Laboratory: Eurofins Sacramento

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

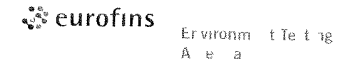
Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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Eurofins TestAmerica, Chicago

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 University Park IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

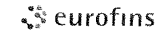


Client Information		Sampler <i>COLLEEN DUFFY</i>		Lab PM Fredrick Sandie		Carrier Tracking No(s)		COC No 500-87887-39456 1																		
Client Contact: Paul Lindquist		Phone		E Mail sandra.fredrick@eurofinset.com		State of Origin WISCONSIN		Page Page 1 of 3																		
Company Ramboll US Corporation		PWSID		Analysis Requested						Job # <i>500-224531</i>																
Address 234 W Florida Street		Due Date Requested		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> PFAS Extended List (36 Analytes) PFC_IDA_WI <input checked="" type="checkbox"/> VOCs 8260B <input checked="" type="checkbox"/> 6020A (Metals) FILTERED PCBs 8082A <input checked="" type="checkbox"/>						Preservation Codes																
City Milwaukee		TAT Requested (days) <i>STANDARD</i>								A HCL M Hexane																
State Zip WI 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								B NaOH N None																
Phone 262-901-3510(Tel)		PO # 1690019647								C Zn Acetate O AsNaO2																
Email plindquist@ramboll.com		WO #								D Nitric Acid P Na2O4S																
Project Name Former Mirro Plant No 9 1690019647		Project # 50018382		E NaHSO4 Q Na2SO3																						
Site		SSOW#		F MeOH R Na2S2O3																						
				G Amchlor S H2SO4																						
				H Ascorbic Acid T TSP Dodecahydrate																						
				I Ice U Acetone																						
				J DI Water V MCAA																						
				K EDTA W pH 4-5																						
				L EDTA Z other (specify)																						
				Other:																						
				Total Number of containers																						
				Special Instructions/Note																						
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFAS Extended List (36 Analytes) PFC_IDA_WI		VOCs 8260B		6020A (Metals)		PCBs 8082A		Total Number of containers		Special Instructions/Note		
										<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>1</i> PZ-226		<i>10-25-22</i>		<i>853</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>2</i> PZ-226 DUP				<i>858</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>3</i> MW-226				<i>1045</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>4</i> MW-226 DUP				<i>1050</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>5</i> MW-236				<i>1455</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>6</i> MW-228				<i>1605</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>7</i> EB-04				<i>1630</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>8</i> FB-04				<i>1635</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>9</i> AMEC-MW-17		<i>10-26-22</i>		<i>847</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>10</i> MW-218				<i>1037</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<i>11</i> MW-217				<i>1219</i>		<i>G</i>		<i>Water</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																
Deliverable Requested I II III IV Other (specify)										Special Instructions/QC Requirements																
Empty Kit Relinquished by					Date					Time					Method of Shipment.											
Relinquished by <i>Colleen Duffy</i>					<i>10-27-22 1510</i>					Company <i>RAMBOLL</i>					Received by <i>[Signature]</i>					Date/Time <i>10-27-22 1510</i> Company <i>Furdus</i>						
Relinquished by <i>[Signature]</i>					<i>10-27-22 1700</i>					Company <i>Eurofins</i>					Received by <i>[Signature]</i>					Date/Time <i>10/28/22 1010</i> Company <i>EBDA</i>						
Relinquished by					Date/Time					Company					Received by					Date/Time						
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No					Cooler Temperature(s) °C and Other Remarks. <i>416 → 48, 25 → 20</i>																

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2417 Bond Street
 University Park IL 60484
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Chain of Custody Record



Er v n f er T st ig
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Client Information		Sampler <i>COLLEEN DUFFY</i>		Lab PM Fredrick Sandie		Carrier Tracking No(s)		COC No 500-87887-39456 1													
Client Contact Paul Lindquist		Phone		E-Mail sandra.fredrick@eurofinset.com		State of Origin <i>WISCONSIN</i>		Page 2 of 3													
Company Ramboll US Corporation				PWSID		Analysis Requested															
Address 234 W Florida Street		Due Date Requested		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFAS Extended List (36 Analytes) PFC_IDA_WI		VOCs 8280B		6020A (Metals) <i>FILTERED</i>		PCBs 8082A		Job # <i>500-224531</i>					
City Milwaukee		TAT Requested (days) <i>STANDARD</i>														Preservation Codes					
State Zip WI 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No														A HCL M Hexane					
Phone 262-901-3510(Tel)		PO # 1690019647														B NaOH N None					
Email plindquist@ramboll.com		WO #:														C Zn Acetate O AsNaO2					
Project Name Former Mirro Plant No 9 1690019647		Project # 50018382		D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3		G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate		I Ice U Acetone		J DI Water V MCAA		K EDTA W pH 4-5		L EDTA Z other (specify)	
Site		SSOW#		Other:		Special Instructions/Note															
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		Total Number of Containers		Special Instructions/Note							
<i>12</i> MW-235		<i>10-26-22</i>		<i>1318</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>13</i> AMEC-MW-15				<i>1456</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>14</i> AMEC-MW-14				<i>1628</i>		<i>G</i>		<i>Water</i>		<i>X</i>		<i>X</i>									
<i>15</i> EB-07				<i>1650</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>16</i> EB-07 FB-07		<i>↓</i>		<i>1655</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>17</i> AMEC-MW-16A		<i>10-27-22</i>		<i>0818</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>18</i> AMEC-MW-16				<i>0910</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
<i>19</i> MW-121				<i>1006</i>		<i>G</i>		<i>Water</i>		<i>X</i>		<i>X</i>									
<i>20</i> MW-121 DUP				<i>1011</i>		<i>G</i>		<i>Water</i>		<i>X</i>		<i>X</i>									
<i>21</i> MW-219				<i>1101</i>		<i>G</i>		<i>Water</i>		<i>X</i>		<i>X</i>									
<i>22</i> EB-11				<i>1120</i>		<i>G</i>		<i>Water</i>		<i>X</i>											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements															
Empty Kit Relinquished by			Date			Time			Method of Shipment												
Relinquished by <i>Colleen Duffy</i>			Date/Time <i>10-27-22-1510</i>			Company <i>Ramboll</i>			Received by <i>[Signature]</i>												
Relinquished by <i>[Signature]</i>			Date/Time <i>10/27/22 1700</i>			Company <i>Eurofins</i>			Received by <i>[Signature]</i>												
Relinquished by			Date/Time			Company			Received by												
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No			Cooler Temperature(s) °C and Other Remarks															

Eurofins TestAmerica, Chicago

2417 Bond Street
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Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



Environmental Test
Laboratory

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Client Information				Sampler: <i>COLLEEN DUFFY</i>		Lab PM: Fredrick Sandie		Carrier Tracking No(s)		COC No: 500-87887-39456 1																																	
Client Contact: Paul Lindquist				Phone		E-Mail: sandra.fredrick@eurofinset.com		State of Origin: WISCONSIN		Page 3 of 3																																	
Company: Ramboll US Corporation				PWSID		Analysis Requested						Job: 500-224531																															
Address: 234 W Florida Street				Due Date Requested		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>PFAS Extended List (36 Analytes) PFC_IDA_WI</td> <td>VOCs 8260B</td> <td>AI</td> <td>Sb</td> <td>As</td> <td>Cr</td> <td>Pb</td> <td>PCBs 8082A</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	AI	Sb	As	Cr	Pb	PCBs 8082A											Preservation Codes											
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	AI	Sb							As	Cr	Pb	PCBs 8082A																												
City: Milwaukee				TAT Requested (days): STANDARD								A HCL M Hexane		B NaOH N None		C Zn Acetate O AsNaO2																											
State Zip: WI 53204				Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3																											
Phone: 262-901-3510(Tel)				PO #: 1690019647		G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate		I Ice U Acetone																																	
Email: plindquist@ramboll.com				WO #		J DI Water V MCAA		K EDTA W pH 4-5		L EDA Z other (specify)																																	
Project Name: Former Mirro Plant No 9 1690019647				Project #: 50018382		<table border="1"> <tr> <td>Special Instructions/Note</td> </tr> <tr> <td></td> </tr> <tr> <td></td> </tr> <tr> <td></td> </tr> <tr> <td></td> </tr> </table>						Special Instructions/Note					Other:																										
Special Instructions/Note																																											
Site				SSOW#		<table border="1"> <tr> <td>Sample Identification</td> <td>Sample Date</td> <td>Sample Time</td> <td>Sample Type (C=Comp, G=grab)</td> <td>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</td> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>PFAS Extended List (36 Analytes) PFC_IDA_WI</td> <td>VOCs 8260B</td> <td>AI</td> <td>Sb</td> <td>As</td> <td>Cr</td> <td>Pb</td> <td>PCBs 8082A</td> <td>Total Number of Containers</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	AI	Sb	As	Cr	Pb	PCBs 8082A	Total Number of Containers																
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	AI	Sb	As	Cr	Pb	PCBs 8082A	Total Number of Containers																												
<div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; transform: rotate(-45deg); opacity: 0.5;"> 23 24 </div>				<i>CLW</i> 10/27/22		10-27-22 1125		G		Water		N		A		D		D		D		D		N																			
						-		-		-		Water		N		A		D		D		D		D		N																	
												Water		N		A		D		D		D		D		N																	
												Water		N		A		D		D		D		D		N																	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																							
Deliverable Requested I II III IV Other (specify)				Special Instructions/QC Requirements																																							
Empty Kit Relinquished by				Date		Time		Method of Shipment																																			
Relinquished by: <i>Colleen Duffy</i>				Date/Time: 10-27-22 1510		Company: RAMBOLL		Received by: <i>[Signature]</i>		Date/Time: 10-27-22 1510		Company: Eurofins																															
Relinquished by: <i>[Signature]</i>				Date/Time: 10-27-22 1700		Company: Eurofins		Received by: <i>[Signature]</i>		Date/Time: 10/28/22 1010		Company: Eurofins																															
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:																															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No		Cooler Temperature(s) °C and Other Remarks																																					

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 52.60 LB
CAD: Q269688/CAFE3616

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.



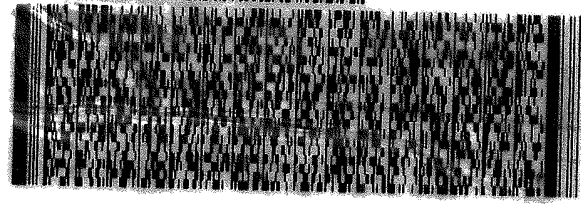
500-224531 Waybl

5771/ARSF/4324

UNIVERSITY PARK IL 60484

(262) 202-5955
INV: REF: PO:

REF: DEPT:



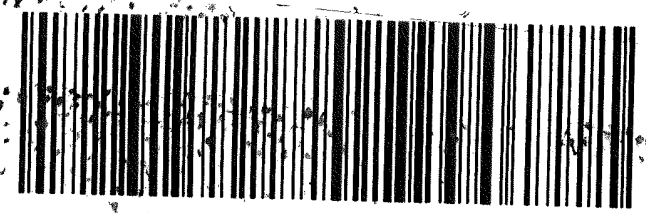
J2220220328014V

1 of 7
TRK# 6058 8696 6405
0261
MASTER

FRI - 28 OCT 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 51.20 LB
CAD: Q269688/CAFE3616

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

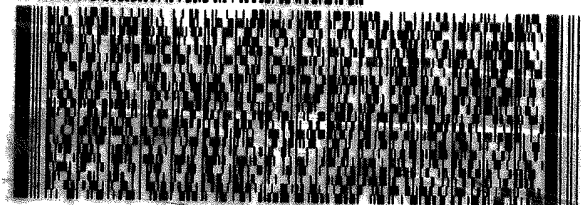
BILL RECIPIENT

5771/ARSF/4324

UNIVERSITY PARK IL 60484

(262) 202-5955
INV: REF: PO:

REF: DEPT:



J2220220328014V

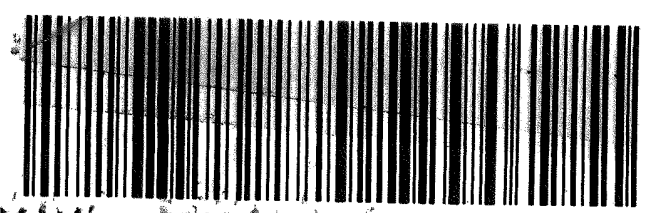
3 of 7
MPS# 6058 8696 6427
0263
Mstr# 6058 8696 6405

0201

FRI - 28 OCT 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



Client Information		Lab PM: Frederick, Sandie		Carrier Tracking No(s): 500-87887-39456.1		
Client Contact: Paul Lindquist		E-Mail: sandra.frederick@eurofinstest.com		State of Origin: WISCONSIN		
Company: Ramboll US Corporation		PWSID:		Page: 1 of 3		
Address: 234 W Florida Street		Due Date Requested:		Job #:		
City: Milwaukee		TAT Requested (days): STANDARD		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:		
Phone: 262-901-3510(Tel)		Compliance Project: Δ Yes Δ No		Total Number of Containers: 1		
Email: plindquist@ramboll.com		PO #: 1690019647		Special Instructions/Note:		
Project Name: Former Mirro Plant No 9 - 1690019647		WO #: 50018382		<p>500-224531 Chain of Custody</p>		
Site:		Project #:				
Sample Identification		SSOW#:				
Sample	Sample Date	Sample Time	Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=organic, A=air)
PZ - 226	10-25-22	853	G			Water
PZ - 226 DUP		858	G			Water
MW - 226		1045	G			Water
MW - 226 DUP		1050	G			Water
MW - 236		1455	G			Water
MW - 228		1605	G			Water
EB-04		1630	G	Water		
FB-04		1635	G	Water		
AMEC-MW-17	10-26-22	847	G	Water		
MW-218		1037	G	Water		
MW-217		1219	G	Water		

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Colleen Duffy* Date/Time: 10-27-22 1510 Company: **Ramboll**
 Relinquished by: *Colleen Duffy* Date/Time: 10-27-22 1700 Company: **Eurofins**
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: **2051768/2051769/2051763**
 Yes Δ No **MISSING AND SOW-2820**
MISSING AND SOW-2820

Cooler Temperature(s) °C and Other Remarks: **3/ 133**

Received by: *[Signature]* Date/Time: 10-27-22 1510 Company: **Eurofins**
 Received by: *[Signature]* Date/Time: 10-27-22 935 Company: **Eurofins**
 Relinquished by: _____ Date/Time: _____ Company: _____

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

Special Instructions/QC Requirements:



Chain of Custody Record

Client Information		Sampler: COLLEEN DUFFY	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	GOC No: 500-87887-39456-1
Client Contact: Paul Lindquist		Phone:	E-Mail: sandra.fredrick@eurofins.com	State of Origin: WISCONSIN	Page: Page 2 of 3
Company: Ramboll US Corporation		PWSID:		Job #:	
Address: 234 W Florida Street		Due Date Requested:		Analysis Requested	
City: Milwaukee		TAT Requested (days): STANDARD		PFAS, Extended List (36 Analytes) - PFC_IDA_WI	
State, Zip: WI, 53204		Compliance Project: Δ Yes Δ No		VOCs - 82608	
Phone: 262-901-3510(Tel)		PO #: 1690019647		6020A (Metals)	
Email: plindquist@ramboll.com		WO #: 1690019647		PCBs - 8082A	
Project Name: Former Mirro Plant No 9 - 1690019647		Project #: 50018382		Filtered	
Site:		SSOW#:		Special Instructions/Note:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Liquid, Solid, On-site, BT=Fluor, A=Air)
MW-235	AMEC-MW-15	10-26-22	1318	G	Water
	AMEC-MW-14		1456	G	Water
	EB-07		1628	G	Water
	EB-07		1650	G	Water
	AMEC-MW-16A		1655	G	Water
	AMEC-MW-16	10-27-22	0818	G	Water
	MW-121		0910	G	Water
	MW-121 Dup		1006	G	Water
	MW-219		1011	G	Water
	EB-11		1101	G	Water
			1120	G	Water
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: Colleen Duffy		Date: 10-27-22		Time: 1510	
Relinquished by: [Signature]		Date/Time: 10-27-22		Company: Ramboll	
Relinquished by: [Signature]		Date/Time: 10-27-22		Company: Eurofins	
Custody Seal Intact: Yes Δ No		Custody Seal No.: 2051763		Custody Seal: 2051769 / 2051768	
10 AMEC MW-17 but since #9 already used? BSW-28--					



Chain of Custody Record

Client Information
 Client Contact: Paul Lindquist
 City: Milwaukee
 State, Zip: WI, 53204
 Phone: 262-901-3510(Tel)
 Email: plindquis@ramboll.com
 Project Name: Former Mirro Plant No 9 - 1690019647
 Site:

Sampler: COLLEEN DUFFY
 Lab PM: Fredrick, Sandie
 E-Mail: sandra.fredrick@eurofinsel.com
 PWSID:

COC No: 500-87887-39456.1
 Page: 3 of 3
 Job #:

Carrier Tracking No(s):
 State of Origin: WISCONSIN

Analysis Requested
 Due Date Requested:
 TAT Requested (days): STANDARD
 Compliance Project: Yes No
 PO #: 1690019647
 WO #:
 Project #: 50018382
 SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soiled, Overstabil, BT-Tissue, AAM)	Special Instructions/Note:
FB-11 TRIP BLANK 1 _____	10-27-22	1125	G	Water	X
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Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: Date: Time:

Relinquished by: Colleen Duffy
 Relinquished by: Sandie Fredrick
 Relinquished by:

Company: RAMBOLL
 Date/Time: 10-27-22 1510
 Company: Eurofins
 Date/Time: 10/27/22 1700
 Company:
 Date/Time:

Custody Seal No.: 2051768/2051769/2051770
 Custody Seals Intact: Yes No

Cooler Temperature(s) °C and Other Remarks: 3/1, 33

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

Special Instructions/QC Requirements:

Date/Time	Company
10/27/22 1510	Eurofins
10/28/22 935	Eurofins



Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-224531-3

Login Number: 224531

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8.2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-224531-3

Login Number: 224531

List Number: 2

Creator: Oropeza, Salvador

List Source: Eurofins Sacramento

List Creation: 10/29/22 03:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2051768/2051769/2051763
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1C&3.3C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-224531-10	MW-218	93	108	112	98	90	89	97	95
500-224531-11	MW-217	88	117	111	118	106	100	111	106
LCS 320-628957/2-A	Lab Control Sample	110	105	113	108	93	96	98	93
LCSD 320-628957/3-A	Lab Control Sample Dup	110	106	113	119	90	96	103	98
MB 320-628957/1-A	Method Blank	118	116	114	115	116	103	108	95

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-224531-10	MW-218	95	78	110	99	88	100	72	85
500-224531-11	MW-217	105	94	126	111	95	111	78	91
LCS 320-628957/2-A	Lab Control Sample	98	86	122	101	94	99	71	77
LCSD 320-628957/3-A	Lab Control Sample Dup	99	93	123	108	93	95	72	74
MB 320-628957/1-A	Method Blank	99	91	133	126	104	102	69	79

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-224531-10	MW-218	83	81	84	84	112	86	100	110
500-224531-11	MW-217	81	86	80	91	131	100	102	119
LCS 320-628957/2-A	Lab Control Sample	81	80	89	92	95	86	90	107
LCSD 320-628957/3-A	Lab Control Sample Dup	76	81	87	95	103	86	88	113
MB 320-628957/1-A	Method Blank	86	90	84	93	110	93	102	119

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M102FTS (25-150)							
500-224531-10	MW-218	108							
500-224531-11	MW-217	116							
LCS 320-628957/2-A	Lab Control Sample	108							
LCSD 320-628957/3-A	Lab Control Sample Dup	103							
MB 320-628957/1-A	Method Blank	106							

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- dMeFOSA = d-N-MeFOSA-M
- dEtFOSA = d-N-EtFOSA-M

Isotope Dilution Summary

Client: Ramboll US Corporation

Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224531-3

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

M242FTS = M2-4:2 FTS

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

M102FTS = 13C2 10:2 FTS

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Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Lindquist
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Generated 11/29/2022 12:11:51 PM

JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-224532-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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Authorization



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Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Job ID: 500-224532-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-224532-1

Comments

No additional comments.

Receipt

The samples were received on 10/28/2022 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 4.8° C.

GC/MS VOA

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-213 (500-224532-7). Elevated reporting limits (RLs) are provided.

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

LCMS

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. MW-224 (500-224532-1), MW-82 (500-224532-6), MW-213 (500-224532-7), MW-205 (500-224532-12), MW-208 (500-224532-13) and MW-234 (500-224532-14)

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. MW-48 (500-224532-19) and MW-29 (500-224532-20)

Method 537 (modified): Results for samples MW-224 (500-224532-1), MW-82 (500-224532-6), MW-213 (500-224532-7), MW-208 (500-224532-13), MW-234 (500-224532-14), MW-210 (500-224532-18) and MW-48 (500-224532-19) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Results for sample MW-234 (500-224532-14) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-628960.

Method code: 3535_PFC_28D

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628960 were light yellow in color prior to extraction. MW-224 (500-224532-1), PZ-224 (500-224532-2), MW-223 (500-224532-5), MW-82 (500-224532-6), MW-213 (500-224532-7), MW-204 (500-224532-10) and MW-201 (500-224532-11).

preparation batch 320-628960

Method code: 3535_PFC_28D

Matrix: Aqueous

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-628954.

Method: 3535_PFC_28D

Matrix: Aqueous

Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Job ID: 500-224532-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 3535: During the solid phase extraction process, the following samples contained non-settable particulates which clogged the solid phase extraction column: MW-48 (500-224532-19).

preparation batch 320-628954

Method: 3535_PFC_28D

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628954 were observed to have floating particulates present in the sample bottle. MW-48 (500-224532-19)

preparation batch 320-628954

Method: 3535_PFC_28D

Matrix: Aqueous

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



Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-224

Lab Sample ID: 500-224532-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	27		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.7		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	10		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	40		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0	I	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.69	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	640		9.7	4.1	ng/L	5		537 (modified)	Total/NA

Client Sample ID: PZ-224

Lab Sample ID: 500-224532-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.2	J	4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.6	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.6		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	15		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.59	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EB-02

Lab Sample ID: 500-224532-3

No Detections.

Client Sample ID: FB-02

Lab Sample ID: 500-224532-4

No Detections.

Client Sample ID: MW-223

Lab Sample ID: 500-224532-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.9		4.9	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		2.0	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	13		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	26		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	310		2.0	0.84	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-82

Lab Sample ID: 500-224532-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.4		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.4		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	0.58		0.50	0.16	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	12		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.0		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	15		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	110		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.34	J	2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.0	I	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.2		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.7		2.0	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	3200		20	8.5	ng/L	10		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-213

Lab Sample ID: 500-224532-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	45		0.50	0.18	ug/L	1		8260B	Total/NA
Isopropylbenzene	37		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	65		1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	54		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	20		1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	18		1.0	0.40	ug/L	1		8260B	Total/NA
tert-Butylbenzene	5.7		1.0	0.40	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	160		1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	93		1.0	0.22	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	310		10	3.6	ug/L	10		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	26		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.7		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	9.4		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	40		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.53	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.36	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.8	J I	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.62	J I	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.6	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.6		1.9	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	740		19	8.0	ng/L	10		537 (modified)	Total/NA

Client Sample ID: EB-05

Lab Sample ID: 500-224532-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.69	J	2.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: FB-05

Lab Sample ID: 500-224532-9

No Detections.

Client Sample ID: MW-204

Lab Sample ID: 500-224532-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	11		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.2		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.8		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.9		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	120		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.52	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.1	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	39		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.21	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	18		1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-201

Lab Sample ID: 500-224532-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	16		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	29		1.9	0.47	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-201 (Continued)

Lab Sample ID: 500-224532-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	32		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.8		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	310		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.6		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.7		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.4		1.9	0.52	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-205

Lab Sample ID: 500-224532-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.5		5.1	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.4		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.8		2.0	0.59	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	12		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	170		2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.60	J	2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.5		2.0	0.58	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-208

Lab Sample ID: 500-224532-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	13		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.8		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	55		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.1	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0	I	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.72	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.7		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.4		1.9	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	430		19	2.4	ng/L	10		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	2100		19	8.1	ng/L	10		537 (modified)	Total/NA

Client Sample ID: MW-234

Lab Sample ID: 500-224532-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	11		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.9		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	18		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	110		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.60	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9	I	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.35	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.0		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.5	J	1.9	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	2200		19	8.2	ng/L	10		537 (modified)	Total/NA

Client Sample ID: MW-99

Lab Sample ID: 500-224532-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.0		4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.3	J	1.8	0.44	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-99 (Continued)

Lab Sample ID: 500-224532-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.3		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.6		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	150		1.8	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.27	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.36	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.7		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.4		1.8	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EB-06

Lab Sample ID: 500-224532-16

No Detections.

Client Sample ID: FB-06

Lab Sample ID: 500-224532-17

No Detections.

Client Sample ID: MW-210

Lab Sample ID: 500-224532-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.7		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.5		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	44		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.56	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.53	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.8		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1800		19	8.2	ng/L	10		537 (modified)	Total/NA

Client Sample ID: MW-48

Lab Sample ID: 500-224532-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.1		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.9		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	9.4		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	35		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.1		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.3	J I	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.0		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		1.9	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1100		19	7.9	ng/L	10		537 (modified)	Total/NA

Client Sample ID: MW-29

Lab Sample ID: 500-224532-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	12		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.3		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.7		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	45		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.40	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-29 (Continued)

Lab Sample ID: 500-224532-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.7	J I	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.41	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.0		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	20		1.9	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EB-10

Lab Sample ID: 500-224532-21

No Detections.

Client Sample ID: FB-10

Lab Sample ID: 500-224532-22

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago



Method Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-224532-1	MW-224	Water	10/24/22 16:10	10/28/22 10:10
500-224532-2	PZ-224	Water	10/24/22 14:57	10/28/22 10:10
500-224532-3	EB-02	Water	10/24/22 16:30	10/28/22 10:10
500-224532-4	FB-02	Water	10/24/22 16:35	10/28/22 10:10
500-224532-5	MW-223	Water	10/25/22 13:55	10/28/22 10:10
500-224532-6	MW-82	Water	10/25/22 15:05	10/28/22 10:10
500-224532-7	MW-213	Water	10/25/22 16:25	10/28/22 10:10
500-224532-8	EB-05	Water	10/25/22 16:50	10/28/22 10:10
500-224532-9	FB-05	Water	10/25/22 16:55	10/28/22 10:10
500-224532-10	MW-204	Water	10/26/22 08:45	10/28/22 10:10
500-224532-11	MW-201	Water	10/26/22 10:22	10/28/22 10:10
500-224532-12	MW-205	Water	10/26/22 12:25	10/28/22 10:10
500-224532-13	MW-208	Water	10/26/22 13:35	10/28/22 10:10
500-224532-14	MW-234	Water	10/26/22 14:50	10/28/22 10:10
500-224532-15	MW-99	Water	10/26/22 15:50	10/28/22 10:10
500-224532-16	EB-06	Water	10/26/22 16:25	10/28/22 10:10
500-224532-17	FB-06	Water	10/26/22 16:30	10/28/22 10:10
500-224532-18	MW-210	Water	10/27/22 08:24	10/28/22 10:10
500-224532-19	MW-48	Water	10/27/22 09:34	10/28/22 10:10
500-224532-20	MW-29	Water	10/27/22 10:10	10/28/22 10:10
500-224532-21	EB-10	Water	10/27/22 10:40	10/28/22 10:10
500-224532-22	FB-10	Water	10/27/22 10:45	10/28/22 10:10



Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-224

Lab Sample ID: 500-224532-1

Date Collected: 10/24/22 16:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	27		4.8	2.3	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluoropentanoic acid (PFPeA)	2.7		1.9	0.47	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorohexanoic acid (PFHxA)	10		1.9	0.56	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluoroheptanoic acid (PFHpA)	40		1.9	0.24	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorobutanesulfonic acid (PFBS)	2.0	I	1.9	0.19	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorohexanesulfonic acid (PFHxS)	0.69	J	1.9	0.55	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		10/31/22 04:47	11/12/22 14:05	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		10/31/22 04:47	11/12/22 14:05	1
NEtFOSA	<0.84		1.9	0.84	ng/L		10/31/22 04:47	11/12/22 14:05	1
NMeFOSA	<0.42		1.9	0.42	ng/L		10/31/22 04:47	11/12/22 14:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:47	11/12/22 14:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.8	1.3	ng/L		10/31/22 04:47	11/12/22 14:05	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/31/22 04:47	11/12/22 14:05	1
NEtFOSE	<0.82		1.9	0.82	ng/L		10/31/22 04:47	11/12/22 14:05	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 14:05	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:47	11/12/22 14:05	1
8:2 FTS	<0.45		1.9	0.45	ng/L		10/31/22 04:47	11/12/22 14:05	1
DONA	<0.39		1.9	0.39	ng/L		10/31/22 04:47	11/12/22 14:05	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/31/22 04:47	11/12/22 14:05	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 14:05	1
F-53B Minor	<0.31		1.9	0.31	ng/L		10/31/22 04:47	11/12/22 14:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	62		25 - 150				10/31/22 04:47	11/12/22 14:05	1
13C5 PFPeA	86		25 - 150				10/31/22 04:47	11/12/22 14:05	1
13C2 PFHxA	94		25 - 150				10/31/22 04:47	11/12/22 14:05	1
13C4 PFHpA	102		25 - 150				10/31/22 04:47	11/12/22 14:05	1
13C5 PFNA	103		25 - 150				10/31/22 04:47	11/12/22 14:05	1
13C2 PFDA	99		25 - 150				10/31/22 04:47	11/12/22 14:05	1
13C2 PFUnA	94		25 - 150				10/31/22 04:47	11/12/22 14:05	1
13C2 PFDoA	102		25 - 150				10/31/22 04:47	11/12/22 14:05	1
13C2 PFTeDA	95		25 - 150				10/31/22 04:47	11/12/22 14:05	1
13C3 PFBS	109		25 - 150				10/31/22 04:47	11/12/22 14:05	1
18O2 PFHxS	106		25 - 150				10/31/22 04:47	11/12/22 14:05	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-224

Lab Sample ID: 500-224532-1

Date Collected: 10/24/22 16:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	99		25 - 150	10/31/22 04:47	11/12/22 14:05	1
13C8 FOSA	99		10 - 150	10/31/22 04:47	11/12/22 14:05	1
d3-NMeFOSAA	77		25 - 150	10/31/22 04:47	11/12/22 14:05	1
d5-NEtFOSAA	88		25 - 150	10/31/22 04:47	11/12/22 14:05	1
d-N-MeFOSA-M	86		10 - 150	10/31/22 04:47	11/12/22 14:05	1
d-N-EtFOSA-M	87		10 - 150	10/31/22 04:47	11/12/22 14:05	1
d7-N-MeFOSE-M	90		10 - 150	10/31/22 04:47	11/12/22 14:05	1
d9-N-EtFOSE-M	92		10 - 150	10/31/22 04:47	11/12/22 14:05	1
M2-4:2 FTS	110		25 - 150	10/31/22 04:47	11/12/22 14:05	1
M2-6:2 FTS	111		25 - 150	10/31/22 04:47	11/12/22 14:05	1
M2-8:2 FTS	99		25 - 150	10/31/22 04:47	11/12/22 14:05	1
13C3 HFPO-DA	86		25 - 150	10/31/22 04:47	11/12/22 14:05	1
13C2 10:2 FTS	98		25 - 150	10/31/22 04:47	11/12/22 14:05	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorooctanoic acid (PFOA)	640		9.7	4.1	ng/L		10/31/22 04:47	11/15/22 19:24	5
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOA	84		25 - 150				10/31/22 04:47	11/15/22 19:24	5

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: PZ-224

Lab Sample ID: 500-224532-2

Date Collected: 10/24/22 14:57

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.2	J	4.7	2.2	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluoropentanoic acid (PFPeA)	1.6	J	1.9	0.46	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorohexanoic acid (PFHxA)	2.6		1.9	0.54	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluoroheptanoic acid (PFHpA)	2.0		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorooctanoic acid (PFOA)	15		1.9	0.79	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorobutanesulfonic acid (PFBS)	0.59	J	1.9	0.19	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.9	0.53	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 04:47	11/12/22 14:15	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 04:47	11/12/22 14:15	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:47	11/12/22 14:15	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:47	11/12/22 14:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:47	11/12/22 14:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:47	11/12/22 14:15	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:47	11/12/22 14:15	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:47	11/12/22 14:15	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:47	11/12/22 14:15	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/31/22 04:47	11/12/22 14:15	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:47	11/12/22 14:15	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:47	11/12/22 14:15	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:47	11/12/22 14:15	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:47	11/12/22 14:15	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 14:15	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	73		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C5 PFPeA	87		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C2 PFHxA	90		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C4 PFHpA	99		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C4 PFOA	95		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C5 PFNA	84		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C2 PFDA	88		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C2 PFUnA	81		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C2 PFDoA	84		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C2 PFTeDA	75		25 - 150	10/31/22 04:47	11/12/22 14:15	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: PZ-224
Date Collected: 10/24/22 14:57
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-2
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	90		25 - 150	10/31/22 04:47	11/12/22 14:15	1
18O2 PFHxS	93		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C4 PFOS	80		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C8 FOSA	89		10 - 150	10/31/22 04:47	11/12/22 14:15	1
d3-NMeFOSAA	63		25 - 150	10/31/22 04:47	11/12/22 14:15	1
d5-NEtFOSAA	71		25 - 150	10/31/22 04:47	11/12/22 14:15	1
d-N-MeFOSA-M	66		10 - 150	10/31/22 04:47	11/12/22 14:15	1
d-N-EtFOSA-M	68		10 - 150	10/31/22 04:47	11/12/22 14:15	1
d7-N-MeFOSE-M	70		10 - 150	10/31/22 04:47	11/12/22 14:15	1
d9-N-EtFOSE-M	72		10 - 150	10/31/22 04:47	11/12/22 14:15	1
M2-4:2 FTS	97		25 - 150	10/31/22 04:47	11/12/22 14:15	1
M2-6:2 FTS	95		25 - 150	10/31/22 04:47	11/12/22 14:15	1
M2-8:2 FTS	77		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C3 HFPO-DA	83		25 - 150	10/31/22 04:47	11/12/22 14:15	1
13C2 10:2 FTS	75		25 - 150	10/31/22 04:47	11/12/22 14:15	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: EB-02
Date Collected: 10/24/22 16:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-3
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		10/31/22 04:47	11/12/22 14:25	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		10/31/22 04:47	11/12/22 14:25	1
NEtFOSA	<0.79		1.8	0.79	ng/L		10/31/22 04:47	11/12/22 14:25	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 04:47	11/12/22 14:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		10/31/22 04:47	11/12/22 14:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		10/31/22 04:47	11/12/22 14:25	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/31/22 04:47	11/12/22 14:25	1
NEtFOSE	<0.77		1.8	0.77	ng/L		10/31/22 04:47	11/12/22 14:25	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 14:25	1
6:2 FTS	<2.3		4.5	2.3	ng/L		10/31/22 04:47	11/12/22 14:25	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 04:47	11/12/22 14:25	1
DONA	<0.36		1.8	0.36	ng/L		10/31/22 04:47	11/12/22 14:25	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		10/31/22 04:47	11/12/22 14:25	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 14:25	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 14:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C5 PFPeA	96		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C2 PFHxA	93		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C4 PFHpA	99		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C4 PFOA	101		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C5 PFNA	87		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C2 PFDA	93		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C2 PFUnA	91		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C2 PFDoA	94		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C2 PFTeDA	88		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C3 PFBS	100		25 - 150	10/31/22 04:47	11/12/22 14:25	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: EB-02
Date Collected: 10/24/22 16:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-3
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	97		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C4 PFOS	86		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C8 FOSA	92		10 - 150	10/31/22 04:47	11/12/22 14:25	1
d3-NMeFOSAA	71		25 - 150	10/31/22 04:47	11/12/22 14:25	1
d5-NEtFOSAA	81		25 - 150	10/31/22 04:47	11/12/22 14:25	1
d-N-MeFOSA-M	77		10 - 150	10/31/22 04:47	11/12/22 14:25	1
d-N-EtFOSA-M	79		10 - 150	10/31/22 04:47	11/12/22 14:25	1
d7-N-MeFOSE-M	86		10 - 150	10/31/22 04:47	11/12/22 14:25	1
d9-N-EtFOSE-M	87		10 - 150	10/31/22 04:47	11/12/22 14:25	1
M2-4:2 FTS	95		25 - 150	10/31/22 04:47	11/12/22 14:25	1
M2-6:2 FTS	92		25 - 150	10/31/22 04:47	11/12/22 14:25	1
M2-8:2 FTS	88		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C3 HFPO-DA	96		25 - 150	10/31/22 04:47	11/12/22 14:25	1
13C2 10:2 FTS	92		25 - 150	10/31/22 04:47	11/12/22 14:25	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: FB-02
Date Collected: 10/24/22 16:35
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-4
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/31/22 04:47	11/12/22 14:35	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/31/22 04:47	11/12/22 14:35	1
NEtFOSA	<0.79		1.8	0.79	ng/L		10/31/22 04:47	11/12/22 14:35	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 04:47	11/12/22 14:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 04:47	11/12/22 14:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 04:47	11/12/22 14:35	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:47	11/12/22 14:35	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/31/22 04:47	11/12/22 14:35	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 14:35	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 04:47	11/12/22 14:35	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 04:47	11/12/22 14:35	1
DONA	<0.37		1.8	0.37	ng/L		10/31/22 04:47	11/12/22 14:35	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:47	11/12/22 14:35	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 14:35	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 14:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C5 PFPeA	94		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C2 PFHxA	91		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C4 PFHpA	97		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C4 PFOA	92		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C5 PFNA	80		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C2 PFDA	84		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C2 PFUnA	87		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C2 PFDoA	91		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C2 PFTeDA	80		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C3 PFBS	98		25 - 150	10/31/22 04:47	11/12/22 14:35	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: FB-02
Date Collected: 10/24/22 16:35
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-4
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	90		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C4 PFOS	82		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C8 FOSA	87		10 - 150	10/31/22 04:47	11/12/22 14:35	1
d3-NMeFOSAA	71		25 - 150	10/31/22 04:47	11/12/22 14:35	1
d5-NEtFOSAA	84		25 - 150	10/31/22 04:47	11/12/22 14:35	1
d-N-MeFOSA-M	72		10 - 150	10/31/22 04:47	11/12/22 14:35	1
d-N-EtFOSA-M	75		10 - 150	10/31/22 04:47	11/12/22 14:35	1
d7-N-MeFOSE-M	80		10 - 150	10/31/22 04:47	11/12/22 14:35	1
d9-N-EtFOSE-M	81		10 - 150	10/31/22 04:47	11/12/22 14:35	1
M2-4:2 FTS	92		25 - 150	10/31/22 04:47	11/12/22 14:35	1
M2-6:2 FTS	92		25 - 150	10/31/22 04:47	11/12/22 14:35	1
M2-8:2 FTS	81		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C3 HFPO-DA	95		25 - 150	10/31/22 04:47	11/12/22 14:35	1
13C2 10:2 FTS	89		25 - 150	10/31/22 04:47	11/12/22 14:35	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-223

Lab Sample ID: 500-224532-5

Date Collected: 10/25/22 13:55

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.9		4.9	2.4	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluoropentanoic acid (PFPeA)	3.4		2.0	0.48	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorohexanoic acid (PFHxA)	13		2.0	0.57	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluoroheptanoic acid (PFHpA)	26		2.0	0.25	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorooctanoic acid (PFOA)	310		2.0	0.84	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		10/31/22 04:47	11/12/22 14:45	1
Perfluorooctanesulfonamide (FOSA)	<0.97		2.0	0.97	ng/L		10/31/22 04:47	11/12/22 14:45	1
NEtFOSA	<0.86		2.0	0.86	ng/L		10/31/22 04:47	11/12/22 14:45	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/31/22 04:47	11/12/22 14:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		10/31/22 04:47	11/12/22 14:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		10/31/22 04:47	11/12/22 14:45	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/31/22 04:47	11/12/22 14:45	1
NEtFOSE	<0.84		2.0	0.84	ng/L		10/31/22 04:47	11/12/22 14:45	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 14:45	1
6:2 FTS	<2.5		4.9	2.5	ng/L		10/31/22 04:47	11/12/22 14:45	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/31/22 04:47	11/12/22 14:45	1
DONA	<0.39		2.0	0.39	ng/L		10/31/22 04:47	11/12/22 14:45	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/31/22 04:47	11/12/22 14:45	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 14:45	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 14:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	67		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C5 PFPeA	94		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C2 PFHxA	103		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C4 PFHpA	103		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C4 PFOA	99		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C5 PFNA	101		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C2 PFDA	108		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C2 PFUnA	101		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C2 PFDoA	107		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C2 PFTeDA	92		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C3 PFBS	119		25 - 150	10/31/22 04:47	11/12/22 14:45	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-223

Lab Sample ID: 500-224532-5

Date Collected: 10/25/22 13:55

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	105		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C4 PFOS	98		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C8 FOSA	110		10 - 150	10/31/22 04:47	11/12/22 14:45	1
d3-NMeFOSAA	82		25 - 150	10/31/22 04:47	11/12/22 14:45	1
d5-NEtFOSAA	95		25 - 150	10/31/22 04:47	11/12/22 14:45	1
d-N-MeFOSA-M	90		10 - 150	10/31/22 04:47	11/12/22 14:45	1
d-N-EtFOSA-M	86		10 - 150	10/31/22 04:47	11/12/22 14:45	1
d7-N-MeFOSE-M	90		10 - 150	10/31/22 04:47	11/12/22 14:45	1
d9-N-EtFOSE-M	92		10 - 150	10/31/22 04:47	11/12/22 14:45	1
M2-4:2 FTS	116		25 - 150	10/31/22 04:47	11/12/22 14:45	1
M2-6:2 FTS	100		25 - 150	10/31/22 04:47	11/12/22 14:45	1
M2-8:2 FTS	102		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C3 HFPO-DA	97		25 - 150	10/31/22 04:47	11/12/22 14:45	1
13C2 10:2 FTS	108		25 - 150	10/31/22 04:47	11/12/22 14:45	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-82

Lab Sample ID: 500-224532-6

Date Collected: 10/25/22 15:05

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/06/22 19:22	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 19:22	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 19:22	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 19:22	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 19:22	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 19:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 19:22	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 19:22	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 19:22	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 19:22	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 19:22	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 19:22	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 19:22	1
cis-1,2-Dichloroethene	2.4		1.0	0.41	ug/L			11/06/22 19:22	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 19:22	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 19:22	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 19:22	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 19:22	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 19:22	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 19:22	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 19:22	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 19:22	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 19:22	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 19:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 19:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 19:22	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 19:22	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 19:22	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 19:22	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 19:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/06/22 19:22	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 19:22	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 19:22	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 19:22	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 19:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 19:22	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/06/22 19:22	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 19:22	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/06/22 19:22	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/06/22 19:22	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 19:22	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 19:22	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 19:22	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 19:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 19:22	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 19:22	1
Toluene	<0.15		0.50	0.15	ug/L			11/06/22 19:22	1
trans-1,2-Dichloroethene	1.4		1.0	0.35	ug/L			11/06/22 19:22	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 19:22	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-82

Lab Sample ID: 500-224532-6

Date Collected: 10/25/22 15:05

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 19:22	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 19:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 19:22	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 19:22	1
Trichloroethene	0.58		0.50	0.16	ug/L			11/06/22 19:22	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 19:22	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 19:22	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/06/22 19:22	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/06/22 19:22	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 19:22	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/06/22 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		72 - 124					11/06/22 19:22	1
Dibromofluoromethane (Surr)	95		75 - 120					11/06/22 19:22	1
1,2-Dichloroethane-d4 (Surr)	112		75 - 126					11/06/22 19:22	1
Toluene-d8 (Surr)	108		75 - 120					11/06/22 19:22	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		5.0	2.4	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluoropentanoic acid (PFPeA)	5.0		2.0	0.49	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorohexanoic acid (PFHxA)	15		2.0	0.58	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluoroheptanoic acid (PFHpA)	110		2.0	0.25	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorononanoic acid (PFNA)	0.34 J		2.0	0.27	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorobutanesulfonic acid (PFBS)	5.0 I		2.0	0.20	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorohexanesulfonic acid (PFHxS)	3.2		2.0	0.57	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorooctanesulfonic acid (PFOS)	6.7		2.0	0.54	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 04:47	11/12/22 14:55	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 04:47	11/12/22 14:55	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 04:47	11/12/22 14:55	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:47	11/12/22 14:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:47	11/12/22 14:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:47	11/12/22 14:55	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:47	11/12/22 14:55	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-82

Lab Sample ID: 500-224532-6

Date Collected: 10/25/22 15:05

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 04:47	11/12/22 14:55	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 14:55	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:47	11/12/22 14:55	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:47	11/12/22 14:55	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:47	11/12/22 14:55	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:47	11/12/22 14:55	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 14:55	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 14:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	57		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C5 PFPeA	87		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C2 PFHxA	110		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C4 PFHpA	110		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C5 PFNA	92		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C2 PFDA	117		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C2 PFUnA	115		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C2 PFDoA	120		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C2 PFTeDA	101		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C3 PFBS	121		25 - 150				10/31/22 04:47	11/12/22 14:55	1
18O2 PFHxS	122		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C4 PFOS	93		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C8 FOSA	119		10 - 150				10/31/22 04:47	11/12/22 14:55	1
d3-NMeFOSAA	92		25 - 150				10/31/22 04:47	11/12/22 14:55	1
d5-NEtFOSAA	109		25 - 150				10/31/22 04:47	11/12/22 14:55	1
d-N-MeFOSA-M	105		10 - 150				10/31/22 04:47	11/12/22 14:55	1
d-N-EtFOSA-M	98		10 - 150				10/31/22 04:47	11/12/22 14:55	1
d7-N-MeFOSE-M	104		10 - 150				10/31/22 04:47	11/12/22 14:55	1
d9-N-EtFOSE-M	103		10 - 150				10/31/22 04:47	11/12/22 14:55	1
M2-4:2 FTS	138		25 - 150				10/31/22 04:47	11/12/22 14:55	1
M2-6:2 FTS	115		25 - 150				10/31/22 04:47	11/12/22 14:55	1
M2-8:2 FTS	135		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C3 HFPO-DA	103		25 - 150				10/31/22 04:47	11/12/22 14:55	1
13C2 10:2 FTS	140		25 - 150				10/31/22 04:47	11/12/22 14:55	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	3200		20	8.5	ng/L		10/31/22 04:47	11/15/22 19:35	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	90		25 - 150				10/31/22 04:47	11/15/22 19:35	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-213

Lab Sample ID: 500-224532-7

Date Collected: 10/25/22 16:25

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/06/22 20:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 20:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 20:07	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 20:07	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 20:07	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 20:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 20:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 20:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 20:07	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 20:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 20:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 20:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 20:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 20:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 20:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 20:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 20:07	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 20:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 20:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 20:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 20:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 20:07	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 20:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 20:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 20:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 20:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 20:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 20:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 20:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 20:07	1
Ethylbenzene	45		0.50	0.18	ug/L			11/06/22 20:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 20:07	1
Isopropylbenzene	37		1.0	0.39	ug/L			11/06/22 20:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 20:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 20:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 20:07	1
Naphthalene	65		1.0	0.34	ug/L			11/06/22 20:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 20:07	1
N-Propylbenzene	54		1.0	0.41	ug/L			11/06/22 20:07	1
p-Isopropyltoluene	20		1.0	0.36	ug/L			11/06/22 20:07	1
sec-Butylbenzene	18		1.0	0.40	ug/L			11/06/22 20:07	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 20:07	1
tert-Butylbenzene	5.7		1.0	0.40	ug/L			11/06/22 20:07	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 20:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 20:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 20:07	1
Toluene	<0.15		0.50	0.15	ug/L			11/06/22 20:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 20:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 20:07	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-213

Lab Sample ID: 500-224532-7

Date Collected: 10/25/22 16:25

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 20:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 20:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 20:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 20:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/06/22 20:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 20:07	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 20:07	1
1,3,5-Trimethylbenzene	160		1.0	0.25	ug/L			11/06/22 20:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 20:07	1
Xylenes, Total	93		1.0	0.22	ug/L			11/06/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124		11/06/22 20:07	1
Dibromofluoromethane (Surr)	93		75 - 120		11/06/22 20:07	1
1,2-Dichloroethane-d4 (Surr)	108		75 - 126		11/06/22 20:07	1
Toluene-d8 (Surr)	104		75 - 120		11/06/22 20:07	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	310		10	3.6	ug/L			11/07/22 12:25	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		72 - 124		11/07/22 12:25	10
Dibromofluoromethane (Surr)	98		75 - 120		11/07/22 12:25	10
1,2-Dichloroethane-d4 (Surr)	111		75 - 126		11/07/22 12:25	10
Toluene-d8 (Surr)	99		75 - 120		11/07/22 12:25	10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	26		4.7	2.2	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluoropentanoic acid (PFPeA)	2.7		1.9	0.46	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorohexanoic acid (PFHxA)	9.4		1.9	0.54	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluoroheptanoic acid (PFHpA)	40		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorononanoic acid (PFNA)	0.53 J		1.9	0.25	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorodecanoic acid (PFDA)	0.36 J		1.9	0.29	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorobutanesulfonic acid (PFBS)	1.8 J I		1.9	0.19	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluoropentanesulfonic acid (PFPeS)	0.62 J I		1.9	0.28	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorohexanesulfonic acid (PFHxS)	1.6 J		1.9	0.53	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorooctanesulfonic acid (PFOS)	7.6		1.9	0.51	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 15:06	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-213

Lab Sample ID: 500-224532-7

Date Collected: 10/25/22 16:25

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/31/22 04:47	11/12/22 15:06	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/31/22 04:47	11/12/22 15:06	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:47	11/12/22 15:06	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:47	11/12/22 15:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:47	11/12/22 15:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:47	11/12/22 15:06	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:47	11/12/22 15:06	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/31/22 04:47	11/12/22 15:06	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:47	11/12/22 15:06	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/31/22 04:47	11/12/22 15:06	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:47	11/12/22 15:06	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:47	11/12/22 15:06	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:47	11/12/22 15:06	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:47	11/12/22 15:06	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 15:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	53		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C5 PFPeA	82		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C2 PFHxA	102		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C4 PFHpA	105		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C5 PFNA	95		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C2 PFDA	104		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C2 PFUnA	113		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C2 PFDoA	116		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C2 PFTeDA	99		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C3 PFBS	120		25 - 150	10/31/22 04:47	11/12/22 15:06	1
18O2 PFHxS	116		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C4 PFOS	96		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C8 FOSA	102		10 - 150	10/31/22 04:47	11/12/22 15:06	1
d3-NMeFOSAA	84		25 - 150	10/31/22 04:47	11/12/22 15:06	1
d5-NEtFOSAA	101		25 - 150	10/31/22 04:47	11/12/22 15:06	1
d-N-MeFOSA-M	94		10 - 150	10/31/22 04:47	11/12/22 15:06	1
d-N-EtFOSA-M	96		10 - 150	10/31/22 04:47	11/12/22 15:06	1
d7-N-MeFOSE-M	100		10 - 150	10/31/22 04:47	11/12/22 15:06	1
d9-N-EtFOSE-M	107		10 - 150	10/31/22 04:47	11/12/22 15:06	1
M2-4:2 FTS	128		25 - 150	10/31/22 04:47	11/12/22 15:06	1
M2-6:2 FTS	148		25 - 150	10/31/22 04:47	11/12/22 15:06	1
M2-8:2 FTS	145		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C3 HFPO-DA	96		25 - 150	10/31/22 04:47	11/12/22 15:06	1
13C2 10:2 FTS	138		25 - 150	10/31/22 04:47	11/12/22 15:06	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	740		19	8.0	ng/L		10/31/22 04:47	11/15/22 19:45	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	96		25 - 150	10/31/22 04:47	11/15/22 19:45	10

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: EB-05
Date Collected: 10/25/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/06/22 19:44	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 19:44	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 19:44	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 19:44	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 19:44	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 19:44	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 19:44	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 19:44	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 19:44	1
Chloroform	0.69	J	2.0	0.37	ug/L			11/06/22 19:44	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 19:44	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 19:44	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 19:44	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 19:44	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 19:44	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 19:44	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 19:44	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 19:44	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 19:44	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 19:44	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 19:44	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 19:44	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 19:44	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 19:44	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 19:44	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 19:44	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 19:44	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 19:44	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 19:44	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 19:44	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/06/22 19:44	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 19:44	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 19:44	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 19:44	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 19:44	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 19:44	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/06/22 19:44	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 19:44	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/06/22 19:44	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/06/22 19:44	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 19:44	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 19:44	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 19:44	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 19:44	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 19:44	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 19:44	1
Toluene	<0.15		0.50	0.15	ug/L			11/06/22 19:44	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 19:44	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 19:44	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: EB-05
Date Collected: 10/25/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 19:44	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 19:44	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 19:44	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 19:44	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/06/22 19:44	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 19:44	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 19:44	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/06/22 19:44	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/06/22 19:44	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 19:44	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/06/22 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		72 - 124					11/06/22 19:44	1
Dibromofluoromethane (Surr)	96		75 - 120					11/06/22 19:44	1
1,2-Dichloroethane-d4 (Surr)	110		75 - 126					11/06/22 19:44	1
Toluene-d8 (Surr)	106		75 - 120					11/06/22 19:44	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.5	2.1	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorooctanoic acid (PFOA)	<0.76		1.8	0.76	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		10/31/22 04:47	11/12/22 15:36	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		10/31/22 04:47	11/12/22 15:36	1
NEtFOSA	<0.78		1.8	0.78	ng/L		10/31/22 04:47	11/12/22 15:36	1
NMeFOSA	<0.38		1.8	0.38	ng/L		10/31/22 04:47	11/12/22 15:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		10/31/22 04:47	11/12/22 15:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		10/31/22 04:47	11/12/22 15:36	1
NMeFOSE	<1.2		3.6	1.2	ng/L		10/31/22 04:47	11/12/22 15:36	1
NEtFOSE	<0.76		1.8	0.76	ng/L		10/31/22 04:47	11/12/22 15:36	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: EB-05
Date Collected: 10/25/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-8
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.21		1.8	0.21	ng/L		10/31/22 04:47	11/12/22 15:36	1
6:2 FTS	<2.2		4.5	2.2	ng/L		10/31/22 04:47	11/12/22 15:36	1
8:2 FTS	<0.41		1.8	0.41	ng/L		10/31/22 04:47	11/12/22 15:36	1
DONA	<0.36		1.8	0.36	ng/L		10/31/22 04:47	11/12/22 15:36	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		10/31/22 04:47	11/12/22 15:36	1
F-53B Major	<0.21		1.8	0.21	ng/L		10/31/22 04:47	11/12/22 15:36	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 15:36	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	115		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C5 PFPeA	119		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C2 PFHxA	117		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C4 PFHpA	110		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C4 PFOA	95		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C5 PFNA	97		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C2 PFDA	123		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C2 PFUnA	122		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C2 PFDoA	116		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C2 PFTeDA	100		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C3 PFBS	118		25 - 150				10/31/22 04:47	11/12/22 15:36	1
18O2 PFHxS	107		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C4 PFOS	96		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C8 FOSA	111		10 - 150				10/31/22 04:47	11/12/22 15:36	1
d3-NMeFOSAA	97		25 - 150				10/31/22 04:47	11/12/22 15:36	1
d5-NEtFOSAA	105		25 - 150				10/31/22 04:47	11/12/22 15:36	1
d-N-MeFOSA-M	90		10 - 150				10/31/22 04:47	11/12/22 15:36	1
d-N-EtFOSA-M	91		10 - 150				10/31/22 04:47	11/12/22 15:36	1
d7-N-MeFOSE-M	99		10 - 150				10/31/22 04:47	11/12/22 15:36	1
d9-N-EtFOSE-M	101		10 - 150				10/31/22 04:47	11/12/22 15:36	1
M2-4:2 FTS	115		25 - 150				10/31/22 04:47	11/12/22 15:36	1
M2-6:2 FTS	107		25 - 150				10/31/22 04:47	11/12/22 15:36	1
M2-8:2 FTS	110		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C3 HFPO-DA	119		25 - 150				10/31/22 04:47	11/12/22 15:36	1
13C2 10:2 FTS	124		25 - 150				10/31/22 04:47	11/12/22 15:36	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: FB-05
Date Collected: 10/25/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-9
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.5	2.1	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorooctanoic acid (PFOA)	<0.76		1.8	0.76	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		10/31/22 04:47	11/12/22 15:46	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		10/31/22 04:47	11/12/22 15:46	1
NEtFOSA	<0.78		1.8	0.78	ng/L		10/31/22 04:47	11/12/22 15:46	1
NMeFOSA	<0.38		1.8	0.38	ng/L		10/31/22 04:47	11/12/22 15:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		10/31/22 04:47	11/12/22 15:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		10/31/22 04:47	11/12/22 15:46	1
NMeFOSE	<1.2		3.6	1.2	ng/L		10/31/22 04:47	11/12/22 15:46	1
NEtFOSE	<0.76		1.8	0.76	ng/L		10/31/22 04:47	11/12/22 15:46	1
4:2 FTS	<0.21		1.8	0.21	ng/L		10/31/22 04:47	11/12/22 15:46	1
6:2 FTS	<2.2		4.5	2.2	ng/L		10/31/22 04:47	11/12/22 15:46	1
8:2 FTS	<0.41		1.8	0.41	ng/L		10/31/22 04:47	11/12/22 15:46	1
DONA	<0.36		1.8	0.36	ng/L		10/31/22 04:47	11/12/22 15:46	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		10/31/22 04:47	11/12/22 15:46	1
F-53B Major	<0.21		1.8	0.21	ng/L		10/31/22 04:47	11/12/22 15:46	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 15:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	105		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C5 PFPeA	107		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C2 PFHxA	104		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C4 PFHpA	101		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C4 PFOA	97		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C5 PFNA	90		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C2 PFDA	108		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C2 PFUnA	105		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C2 PFDoA	99		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C2 PFTeDA	93		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C3 PFBS	109		25 - 150	10/31/22 04:47	11/12/22 15:46	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: FB-05
Date Collected: 10/25/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-9
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	103		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C4 PFOS	89		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C8 FOSA	106		10 - 150	10/31/22 04:47	11/12/22 15:46	1
d3-NMeFOSAA	86		25 - 150	10/31/22 04:47	11/12/22 15:46	1
d5-NEtFOSAA	95		25 - 150	10/31/22 04:47	11/12/22 15:46	1
d-N-MeFOSA-M	87		10 - 150	10/31/22 04:47	11/12/22 15:46	1
d-N-EtFOSA-M	84		10 - 150	10/31/22 04:47	11/12/22 15:46	1
d7-N-MeFOSE-M	94		10 - 150	10/31/22 04:47	11/12/22 15:46	1
d9-N-EtFOSE-M	94		10 - 150	10/31/22 04:47	11/12/22 15:46	1
M2-4:2 FTS	105		25 - 150	10/31/22 04:47	11/12/22 15:46	1
M2-6:2 FTS	82		25 - 150	10/31/22 04:47	11/12/22 15:46	1
M2-8:2 FTS	95		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C3 HFPO-DA	100		25 - 150	10/31/22 04:47	11/12/22 15:46	1
13C2 10:2 FTS	103		25 - 150	10/31/22 04:47	11/12/22 15:46	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-204

Lab Sample ID: 500-224532-10

Date Collected: 10/26/22 08:45

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	11		4.7	2.3	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluoropentanoic acid (PFPeA)	4.2		1.9	0.46	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorohexanoic acid (PFHxA)	8.8		1.9	0.54	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluoroheptanoic acid (PFHpA)	8.9		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorooctanoic acid (PFOA)	120		1.9	0.80	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorononanoic acid (PFNA)	0.52	J	1.9	0.25	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.9	0.19	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluoropentanesulfonic acid (PFPeS)	1.1	J	1.9	0.28	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorohexanesulfonic acid (PFHxS)	39		1.9	0.54	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluoroheptanesulfonic acid (PFHpS)	0.21	J	1.9	0.18	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorooctanesulfonic acid (PFOS)	18		1.9	0.51	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/31/22 04:47	11/12/22 15:56	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/31/22 04:47	11/12/22 15:56	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/31/22 04:47	11/12/22 15:56	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:47	11/12/22 15:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:47	11/12/22 15:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:47	11/12/22 15:56	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:47	11/12/22 15:56	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/31/22 04:47	11/12/22 15:56	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 15:56	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/31/22 04:47	11/12/22 15:56	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:47	11/12/22 15:56	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:47	11/12/22 15:56	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:47	11/12/22 15:56	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 15:56	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 15:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	85		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C5 PFPeA	97		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C2 PFHxA	96		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C4 PFHpA	102		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C4 PFOA	102		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C5 PFNA	93		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C2 PFDA	110		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C2 PFUnA	111		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C2 PFDoA	104		25 - 150	10/31/22 04:47	11/12/22 15:56	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-204

Lab Sample ID: 500-224532-10

Date Collected: 10/26/22 08:45

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFTeDA	86		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C3 PFBS	111		25 - 150	10/31/22 04:47	11/12/22 15:56	1
18O2 PFHxS	101		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C4 PFOS	87		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C8 FOSA	108		10 - 150	10/31/22 04:47	11/12/22 15:56	1
d3-NMeFOSAA	89		25 - 150	10/31/22 04:47	11/12/22 15:56	1
d5-NEtFOSAA	96		25 - 150	10/31/22 04:47	11/12/22 15:56	1
d-N-MeFOSA-M	85		10 - 150	10/31/22 04:47	11/12/22 15:56	1
d-N-EtFOSA-M	84		10 - 150	10/31/22 04:47	11/12/22 15:56	1
d7-N-MeFOSE-M	92		10 - 150	10/31/22 04:47	11/12/22 15:56	1
d9-N-EtFOSE-M	89		10 - 150	10/31/22 04:47	11/12/22 15:56	1
M2-4:2 FTS	129		25 - 150	10/31/22 04:47	11/12/22 15:56	1
M2-6:2 FTS	102		25 - 150	10/31/22 04:47	11/12/22 15:56	1
M2-8:2 FTS	120		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C3 HFPO-DA	105		25 - 150	10/31/22 04:47	11/12/22 15:56	1
13C2 10:2 FTS	101		25 - 150	10/31/22 04:47	11/12/22 15:56	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-201

Lab Sample ID: 500-224532-11

Date Collected: 10/26/22 10:22

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	16		4.8	2.3	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluoropentanoic acid (PFPeA)	29		1.9	0.47	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorohexanoic acid (PFHxA)	32		1.9	0.56	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluoroheptanoic acid (PFHpA)	8.8		1.9	0.24	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorooctanoic acid (PFOA)	310		1.9	0.82	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorobutanesulfonic acid (PFBS)	2.6		1.9	0.19	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorohexanesulfonic acid (PFHxS)	8.7		1.9	0.55	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorooctanesulfonic acid (PFOS)	4.4		1.9	0.52	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		10/31/22 04:47	11/12/22 16:06	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		10/31/22 04:47	11/12/22 16:06	1
NEtFOSA	<0.84		1.9	0.84	ng/L		10/31/22 04:47	11/12/22 16:06	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:47	11/12/22 16:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:47	11/12/22 16:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.8	1.3	ng/L		10/31/22 04:47	11/12/22 16:06	1
NMeFOSE	<1.3		3.9	1.3	ng/L		10/31/22 04:47	11/12/22 16:06	1
NEtFOSE	<0.82		1.9	0.82	ng/L		10/31/22 04:47	11/12/22 16:06	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 16:06	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:47	11/12/22 16:06	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:47	11/12/22 16:06	1
DONA	<0.39		1.9	0.39	ng/L		10/31/22 04:47	11/12/22 16:06	1
HFPO-DA (GenX)	<1.4		3.9	1.4	ng/L		10/31/22 04:47	11/12/22 16:06	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 16:06	1
F-53B Minor	<0.31		1.9	0.31	ng/L		10/31/22 04:47	11/12/22 16:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	80		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C5 PFPeA	103		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C2 PFHxA	106		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C4 PFHpA	107		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C4 PFOA	91		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C5 PFNA	98		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C2 PFDA	114		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C2 PFUnA	112		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C2 PFDoA	106		25 - 150	10/31/22 04:47	11/12/22 16:06	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-201

Lab Sample ID: 500-224532-11

Date Collected: 10/26/22 10:22

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFTeDA	91		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C3 PFBS	116		25 - 150	10/31/22 04:47	11/12/22 16:06	1
18O2 PFHxS	110		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C4 PFOS	90		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C8 FOSA	110		10 - 150	10/31/22 04:47	11/12/22 16:06	1
d3-NMeFOSAA	87		25 - 150	10/31/22 04:47	11/12/22 16:06	1
d5-NEtFOSAA	96		25 - 150	10/31/22 04:47	11/12/22 16:06	1
d-N-MeFOSA-M	80		10 - 150	10/31/22 04:47	11/12/22 16:06	1
d-N-EtFOSA-M	81		10 - 150	10/31/22 04:47	11/12/22 16:06	1
d7-N-MeFOSE-M	92		10 - 150	10/31/22 04:47	11/12/22 16:06	1
d9-N-EtFOSE-M	91		10 - 150	10/31/22 04:47	11/12/22 16:06	1
M2-4:2 FTS	127		25 - 150	10/31/22 04:47	11/12/22 16:06	1
M2-6:2 FTS	108		25 - 150	10/31/22 04:47	11/12/22 16:06	1
M2-8:2 FTS	113		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C3 HFPO-DA	99		25 - 150	10/31/22 04:47	11/12/22 16:06	1
13C2 10:2 FTS	110		25 - 150	10/31/22 04:47	11/12/22 16:06	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-205

Lab Sample ID: 500-224532-12

Date Collected: 10/26/22 12:25

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.5		5.1	2.4	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluoropentanoic acid (PFPeA)	2.4		2.0	0.49	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorohexanoic acid (PFHxA)	6.8		2.0	0.59	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluoroheptanoic acid (PFHpA)	12		2.0	0.25	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorooctanoic acid (PFOA)	170		2.0	0.86	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorododecanoic acid (PFDoA)	<0.56		2.0	0.56	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorotetradecanoic acid (PFTeA)	<0.74		2.0	0.74	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluoropentanesulfonic acid (PFPeS)	0.60	J I	2.0	0.30	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorohexanesulfonic acid (PFHxS)	5.5		2.0	0.58	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.55		2.0	0.55	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.98		2.0	0.98	ng/L		10/31/22 04:47	11/12/22 16:16	1
Perfluorooctanesulfonamide (FOSA)	<0.99		2.0	0.99	ng/L		10/31/22 04:47	11/12/22 16:16	1
NEtFOSA	<0.88		2.0	0.88	ng/L		10/31/22 04:47	11/12/22 16:16	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:47	11/12/22 16:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.1	1.2	ng/L		10/31/22 04:47	11/12/22 16:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.1	1.3	ng/L		10/31/22 04:47	11/12/22 16:16	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:47	11/12/22 16:16	1
NEtFOSE	<0.86		2.0	0.86	ng/L		10/31/22 04:47	11/12/22 16:16	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 16:16	1
6:2 FTS	<2.5		5.1	2.5	ng/L		10/31/22 04:47	11/12/22 16:16	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:47	11/12/22 16:16	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:47	11/12/22 16:16	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:47	11/12/22 16:16	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 16:16	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 16:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	73		25 - 150				10/31/22 04:47	11/12/22 16:16	1
13C5 PFPeA	94		25 - 150				10/31/22 04:47	11/12/22 16:16	1
13C2 PFHxA	102		25 - 150				10/31/22 04:47	11/12/22 16:16	1
13C4 PFHpA	108		25 - 150				10/31/22 04:47	11/12/22 16:16	1
13C4 PFOA	103		25 - 150				10/31/22 04:47	11/12/22 16:16	1
13C5 PFNA	99		25 - 150				10/31/22 04:47	11/12/22 16:16	1
13C2 PFDA	116		25 - 150				10/31/22 04:47	11/12/22 16:16	1
13C2 PFUnA	110		25 - 150				10/31/22 04:47	11/12/22 16:16	1
13C2 PFDoA	102		25 - 150				10/31/22 04:47	11/12/22 16:16	1
13C2 PFTeDA	94		25 - 150				10/31/22 04:47	11/12/22 16:16	1
13C3 PFBS	105		25 - 150				10/31/22 04:47	11/12/22 16:16	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-205

Lab Sample ID: 500-224532-12

Date Collected: 10/26/22 12:25

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	106		25 - 150	10/31/22 04:47	11/12/22 16:16	1
13C4 PFOS	89		25 - 150	10/31/22 04:47	11/12/22 16:16	1
13C8 FOSA	112		10 - 150	10/31/22 04:47	11/12/22 16:16	1
d3-NMeFOSAA	85		25 - 150	10/31/22 04:47	11/12/22 16:16	1
d5-NEtFOSAA	98		25 - 150	10/31/22 04:47	11/12/22 16:16	1
d-N-MeFOSA-M	87		10 - 150	10/31/22 04:47	11/12/22 16:16	1
d-N-EtFOSA-M	85		10 - 150	10/31/22 04:47	11/12/22 16:16	1
d7-N-MeFOSE-M	94		10 - 150	10/31/22 04:47	11/12/22 16:16	1
d9-N-EtFOSE-M	95		10 - 150	10/31/22 04:47	11/12/22 16:16	1
M2-4:2 FTS	129		25 - 150	10/31/22 04:47	11/12/22 16:16	1
M2-6:2 FTS	105		25 - 150	10/31/22 04:47	11/12/22 16:16	1
M2-8:2 FTS	105		25 - 150	10/31/22 04:47	11/12/22 16:16	1
13C3 HFPO-DA	95		25 - 150	10/31/22 04:47	11/12/22 16:16	1
13C2 10:2 FTS	99		25 - 150	10/31/22 04:47	11/12/22 16:16	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-208

Lab Sample ID: 500-224532-13

Date Collected: 10/26/22 13:35

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	13		4.8	2.3	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluoropentanoic acid (PFPeA)	7.8		1.9	0.47	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorohexanoic acid (PFHxA)	55		1.9	0.55	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorononanoic acid (PFNA)	1.1	J	1.9	0.26	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorobutanesulfonic acid (PFBS)	2.0	I	1.9	0.19	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluoropentanesulfonic acid (PFPeS)	0.72	J	1.9	0.29	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorohexanesulfonic acid (PFHxS)	4.7		1.9	0.54	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorooctanesulfonic acid (PFOS)	7.4		1.9	0.51	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/31/22 04:47	11/12/22 16:27	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		10/31/22 04:47	11/12/22 16:27	1
NEtFOSA	<0.83		1.9	0.83	ng/L		10/31/22 04:47	11/12/22 16:27	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:47	11/12/22 16:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		10/31/22 04:47	11/12/22 16:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:47	11/12/22 16:27	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:47	11/12/22 16:27	1
NEtFOSE	<0.81		1.9	0.81	ng/L		10/31/22 04:47	11/12/22 16:27	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 16:27	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:47	11/12/22 16:27	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:47	11/12/22 16:27	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:47	11/12/22 16:27	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:47	11/12/22 16:27	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 16:27	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 16:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	84		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C5 PFPeA	101		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C2 PFHxA	99		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C4 PFHpA	87		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C4 PFOA	88		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C5 PFNA	95		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C2 PFDA	115		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C2 PFUnA	115		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C2 PFDoA	106		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C2 PFTeDA	95		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C3 PFBS	112		25 - 150	10/31/22 04:47	11/12/22 16:27	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-208

Lab Sample ID: 500-224532-13

Date Collected: 10/26/22 13:35

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	100		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C4 PFOS	94		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C8 FOSA	116		10 - 150	10/31/22 04:47	11/12/22 16:27	1
d3-NMeFOSAA	87		25 - 150	10/31/22 04:47	11/12/22 16:27	1
d5-NEtFOSAA	98		25 - 150	10/31/22 04:47	11/12/22 16:27	1
d-N-MeFOSA-M	88		10 - 150	10/31/22 04:47	11/12/22 16:27	1
d-N-EtFOSA-M	86		10 - 150	10/31/22 04:47	11/12/22 16:27	1
d7-N-MeFOSE-M	92		10 - 150	10/31/22 04:47	11/12/22 16:27	1
d9-N-EtFOSE-M	93		10 - 150	10/31/22 04:47	11/12/22 16:27	1
M2-4:2 FTS	124		25 - 150	10/31/22 04:47	11/12/22 16:27	1
M2-6:2 FTS	95		25 - 150	10/31/22 04:47	11/12/22 16:27	1
M2-8:2 FTS	116		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C3 HFPO-DA	101		25 - 150	10/31/22 04:47	11/12/22 16:27	1
13C2 10:2 FTS	106		25 - 150	10/31/22 04:47	11/12/22 16:27	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluoroheptanoic acid (PFHpA)	430		19	2.4	ng/L		10/31/22 04:47	11/15/22 19:55	10
Perfluorooctanoic acid (PFOA)	2100		19	8.1	ng/L		10/31/22 04:47	11/15/22 19:55	10

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFHpA	111		25 - 150	10/31/22 04:47	11/15/22 19:55	10
13C4 PFOA	88		25 - 150	10/31/22 04:47	11/15/22 19:55	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-234

Lab Sample ID: 500-224532-14

Date Collected: 10/26/22 14:50

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	11		4.8	2.3	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluoropentanoic acid (PFPeA)	3.9		1.9	0.47	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorohexanoic acid (PFHxA)	18		1.9	0.56	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluoroheptanoic acid (PFHpA)	110		1.9	0.24	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorononanoic acid (PFNA)	0.60	J	1.9	0.26	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorobutanesulfonic acid (PFBS)	1.9	I	1.9	0.19	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluoropentanesulfonic acid (PFPeS)	0.35	J	1.9	0.29	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorohexanesulfonic acid (PFHxS)	4.0		1.9	0.55	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorooctanesulfonic acid (PFOS)	1.5	J	1.9	0.52	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		10/31/22 04:47	11/12/22 16:37	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		10/31/22 04:47	11/12/22 16:37	1
NEtFOSA	<0.84		1.9	0.84	ng/L		10/31/22 04:47	11/12/22 16:37	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:47	11/12/22 16:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:47	11/12/22 16:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.8	1.3	ng/L		10/31/22 04:47	11/12/22 16:37	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/31/22 04:47	11/12/22 16:37	1
NEtFOSE	<0.82		1.9	0.82	ng/L		10/31/22 04:47	11/12/22 16:37	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 16:37	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:47	11/12/22 16:37	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:47	11/12/22 16:37	1
DONA	<0.39		1.9	0.39	ng/L		10/31/22 04:47	11/12/22 16:37	1
HFPO-DA (GenX)	<1.4		3.9	1.4	ng/L		10/31/22 04:47	11/12/22 16:37	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:47	11/12/22 16:37	1
F-53B Minor	<0.31		1.9	0.31	ng/L		10/31/22 04:47	11/12/22 16:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	66		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C5 PFPeA	87		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C2 PFHxA	95		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C4 PFHpA	95		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C4 PFOA	76		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C5 PFNA	89		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C2 PFDA	104		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C2 PFUnA	100		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C2 PFDoA	96		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C2 PFTeDA	89		25 - 150	10/31/22 04:47	11/12/22 16:37	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-234

Lab Sample ID: 500-224532-14

Date Collected: 10/26/22 14:50

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	103		25 - 150	10/31/22 04:47	11/12/22 16:37	1
18O2 PFHxS	90		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C4 PFOS	83		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C8 FOSA	105		10 - 150	10/31/22 04:47	11/12/22 16:37	1
d3-NMeFOSAA	81		25 - 150	10/31/22 04:47	11/12/22 16:37	1
d5-NEtFOSAA	91		25 - 150	10/31/22 04:47	11/12/22 16:37	1
d-N-MeFOSA-M	75		10 - 150	10/31/22 04:47	11/12/22 16:37	1
d-N-EtFOSA-M	75		10 - 150	10/31/22 04:47	11/12/22 16:37	1
d7-N-MeFOSE-M	84		10 - 150	10/31/22 04:47	11/12/22 16:37	1
d9-N-EtFOSE-M	86		10 - 150	10/31/22 04:47	11/12/22 16:37	1
M2-4:2 FTS	104		25 - 150	10/31/22 04:47	11/12/22 16:37	1
M2-6:2 FTS	82		25 - 150	10/31/22 04:47	11/12/22 16:37	1
M2-8:2 FTS	101		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C3 HFPO-DA	83		25 - 150	10/31/22 04:47	11/12/22 16:37	1
13C2 10:2 FTS	102		25 - 150	10/31/22 04:47	11/12/22 16:37	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorooctanoic acid (PFOA)	2200		19	8.2	ng/L		10/31/22 04:47	11/17/22 05:09	10

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOA	85		25 - 150	10/31/22 04:47	11/17/22 05:09	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-99

Lab Sample ID: 500-224532-15

Date Collected: 10/26/22 15:50

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.0		4.5	2.2	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluoropentanoic acid (PFPeA)	1.3	J	1.8	0.44	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorohexanoic acid (PFHxA)	2.3		1.8	0.53	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluoroheptanoic acid (PFHpA)	2.6		1.8	0.23	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorooctanoic acid (PFOA)	150		1.8	0.77	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorononanoic acid (PFNA)	0.27	J	1.8	0.24	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.8	0.18	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluoropentanesulfonic acid (PFPeS)	0.36	J	1.8	0.27	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorohexanesulfonic acid (PFHxS)	3.7		1.8	0.52	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorooctanesulfonic acid (PFOS)	3.4		1.8	0.49	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		10/31/22 04:47	11/12/22 16:47	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		10/31/22 04:47	11/12/22 16:47	1
NEtFOSA	<0.79		1.8	0.79	ng/L		10/31/22 04:47	11/12/22 16:47	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 04:47	11/12/22 16:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		10/31/22 04:47	11/12/22 16:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		10/31/22 04:47	11/12/22 16:47	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/31/22 04:47	11/12/22 16:47	1
NEtFOSE	<0.77		1.8	0.77	ng/L		10/31/22 04:47	11/12/22 16:47	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 16:47	1
6:2 FTS	<2.3		4.5	2.3	ng/L		10/31/22 04:47	11/12/22 16:47	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 04:47	11/12/22 16:47	1
DONA	<0.36		1.8	0.36	ng/L		10/31/22 04:47	11/12/22 16:47	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		10/31/22 04:47	11/12/22 16:47	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 16:47	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 16:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	86		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C5 PFPeA	101		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C2 PFHxA	98		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C4 PFHpA	99		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C4 PFOA	94		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C5 PFNA	95		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C2 PFDA	113		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C2 PFUnA	104		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C2 PFDoA	98		25 - 150	10/31/22 04:47	11/12/22 16:47	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-99

Lab Sample ID: 500-224532-15

Date Collected: 10/26/22 15:50

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFTeDA	84		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C3 PFBS	113		25 - 150	10/31/22 04:47	11/12/22 16:47	1
18O2 PFHxS	99		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C4 PFOS	89		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C8 FOSA	111		10 - 150	10/31/22 04:47	11/12/22 16:47	1
d3-NMeFOSAA	86		25 - 150	10/31/22 04:47	11/12/22 16:47	1
d5-NEtFOSAA	95		25 - 150	10/31/22 04:47	11/12/22 16:47	1
d-N-MeFOSA-M	81		10 - 150	10/31/22 04:47	11/12/22 16:47	1
d-N-EtFOSA-M	77		10 - 150	10/31/22 04:47	11/12/22 16:47	1
d7-N-MeFOSE-M	86		10 - 150	10/31/22 04:47	11/12/22 16:47	1
d9-N-EtFOSE-M	85		10 - 150	10/31/22 04:47	11/12/22 16:47	1
M2-4:2 FTS	120		25 - 150	10/31/22 04:47	11/12/22 16:47	1
M2-6:2 FTS	102		25 - 150	10/31/22 04:47	11/12/22 16:47	1
M2-8:2 FTS	112		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C3 HFPO-DA	102		25 - 150	10/31/22 04:47	11/12/22 16:47	1
13C2 10:2 FTS	96		25 - 150	10/31/22 04:47	11/12/22 16:47	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: EB-06

Lab Sample ID: 500-224532-16

Date Collected: 10/26/22 16:25

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/31/22 04:47	11/12/22 16:57	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/31/22 04:47	11/12/22 16:57	1
NEtFOSA	<0.80		1.8	0.80	ng/L		10/31/22 04:47	11/12/22 16:57	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 04:47	11/12/22 16:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 04:47	11/12/22 16:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 04:47	11/12/22 16:57	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:47	11/12/22 16:57	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/31/22 04:47	11/12/22 16:57	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 16:57	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 04:47	11/12/22 16:57	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 04:47	11/12/22 16:57	1
DONA	<0.37		1.8	0.37	ng/L		10/31/22 04:47	11/12/22 16:57	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:47	11/12/22 16:57	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 16:57	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 16:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	101		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C5 PFPeA	106		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C2 PFHxA	99		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C4 PFHpA	96		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C4 PFOA	96		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C5 PFNA	92		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C2 PFDA	111		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C2 PFUnA	110		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C2 PFDoA	108		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C2 PFTeDA	90		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C3 PFBS	108		25 - 150	10/31/22 04:47	11/12/22 16:57	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: EB-06

Lab Sample ID: 500-224532-16

Date Collected: 10/26/22 16:25

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	96		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C4 PFOS	91		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C8 FOSA	108		10 - 150	10/31/22 04:47	11/12/22 16:57	1
d3-NMeFOSAA	88		25 - 150	10/31/22 04:47	11/12/22 16:57	1
d5-NEtFOSAA	101		25 - 150	10/31/22 04:47	11/12/22 16:57	1
d-N-MeFOSA-M	87		10 - 150	10/31/22 04:47	11/12/22 16:57	1
d-N-EtFOSA-M	86		10 - 150	10/31/22 04:47	11/12/22 16:57	1
d7-N-MeFOSE-M	94		10 - 150	10/31/22 04:47	11/12/22 16:57	1
d9-N-EtFOSE-M	94		10 - 150	10/31/22 04:47	11/12/22 16:57	1
M2-4:2 FTS	106		25 - 150	10/31/22 04:47	11/12/22 16:57	1
M2-6:2 FTS	90		25 - 150	10/31/22 04:47	11/12/22 16:57	1
M2-8:2 FTS	115		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C3 HFPO-DA	92		25 - 150	10/31/22 04:47	11/12/22 16:57	1
13C2 10:2 FTS	135		25 - 150	10/31/22 04:47	11/12/22 16:57	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: FB-06
Date Collected: 10/26/22 16:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-17
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		10/31/22 04:47	11/12/22 17:07	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		10/31/22 04:47	11/12/22 17:07	1
NEtFOSA	<0.79		1.8	0.79	ng/L		10/31/22 04:47	11/12/22 17:07	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 04:47	11/12/22 17:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		10/31/22 04:47	11/12/22 17:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		10/31/22 04:47	11/12/22 17:07	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/31/22 04:47	11/12/22 17:07	1
NEtFOSE	<0.77		1.8	0.77	ng/L		10/31/22 04:47	11/12/22 17:07	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 17:07	1
6:2 FTS	<2.3		4.5	2.3	ng/L		10/31/22 04:47	11/12/22 17:07	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 04:47	11/12/22 17:07	1
DONA	<0.36		1.8	0.36	ng/L		10/31/22 04:47	11/12/22 17:07	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		10/31/22 04:47	11/12/22 17:07	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 04:47	11/12/22 17:07	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:47	11/12/22 17:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	112		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C5 PFPeA	107		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C2 PFHxA	106		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C4 PFHpA	97		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C4 PFOA	97		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C5 PFNA	98		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C2 PFDA	114		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C2 PFUnA	107		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C2 PFDoA	109		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C2 PFTeDA	90		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C3 PFBS	116		25 - 150	10/31/22 04:47	11/12/22 17:07	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: FB-06
Date Collected: 10/26/22 16:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-17
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	98		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C4 PFOS	93		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C8 FOSA	112		10 - 150	10/31/22 04:47	11/12/22 17:07	1
d3-NMeFOSAA	86		25 - 150	10/31/22 04:47	11/12/22 17:07	1
d5-NEtFOSAA	96		25 - 150	10/31/22 04:47	11/12/22 17:07	1
d-N-MeFOSA-M	93		10 - 150	10/31/22 04:47	11/12/22 17:07	1
d-N-EtFOSA-M	91		10 - 150	10/31/22 04:47	11/12/22 17:07	1
d7-N-MeFOSE-M	99		10 - 150	10/31/22 04:47	11/12/22 17:07	1
d9-N-EtFOSE-M	99		10 - 150	10/31/22 04:47	11/12/22 17:07	1
M2-4:2 FTS	116		25 - 150	10/31/22 04:47	11/12/22 17:07	1
M2-6:2 FTS	95		25 - 150	10/31/22 04:47	11/12/22 17:07	1
M2-8:2 FTS	110		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C3 HFPO-DA	100		25 - 150	10/31/22 04:47	11/12/22 17:07	1
13C2 10:2 FTS	102		25 - 150	10/31/22 04:47	11/12/22 17:07	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-210

Lab Sample ID: 500-224532-18

Date Collected: 10/27/22 08:24

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.7		4.8	2.3	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluoropentanoic acid (PFPeA)	3.4		1.9	0.47	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorohexanoic acid (PFHxA)	8.5		1.9	0.56	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluoroheptanoic acid (PFHpA)	44		1.9	0.24	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorononanoic acid (PFNA)	0.56	J	1.9	0.26	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.9	0.19	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluoropentanesulfonic acid (PFPeS)	0.53	J	1.9	0.29	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorohexanesulfonic acid (PFHxS)	4.8		1.9	0.55	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		10/31/22 04:28	11/12/22 09:41	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		10/31/22 04:28	11/12/22 09:41	1
NEtFOSA	<0.84		1.9	0.84	ng/L		10/31/22 04:28	11/12/22 09:41	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:28	11/12/22 09:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:28	11/12/22 09:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:28	11/12/22 09:41	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:28	11/12/22 09:41	1
NEtFOSE	<0.82		1.9	0.82	ng/L		10/31/22 04:28	11/12/22 09:41	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:28	11/12/22 09:41	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:28	11/12/22 09:41	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:28	11/12/22 09:41	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:28	11/12/22 09:41	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:28	11/12/22 09:41	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:28	11/12/22 09:41	1
F-53B Minor	<0.31		1.9	0.31	ng/L		10/31/22 04:28	11/12/22 09:41	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	69		25 - 150				10/31/22 04:28	11/12/22 09:41	1
13C5 PFPeA	85		25 - 150				10/31/22 04:28	11/12/22 09:41	1
13C2 PFHxA	95		25 - 150				10/31/22 04:28	11/12/22 09:41	1
13C4 PFHpA	96		25 - 150				10/31/22 04:28	11/12/22 09:41	1
13C4 PFOA	95		25 - 150				10/31/22 04:28	11/12/22 09:41	1
13C5 PFNA	107		25 - 150				10/31/22 04:28	11/12/22 09:41	1
13C2 PFDA	107		25 - 150				10/31/22 04:28	11/12/22 09:41	1
13C2 PFUnA	95		25 - 150				10/31/22 04:28	11/12/22 09:41	1
13C2 PFDoA	97		25 - 150				10/31/22 04:28	11/12/22 09:41	1
13C2 PFTeDA	90		25 - 150				10/31/22 04:28	11/12/22 09:41	1
13C3 PFBS	109		25 - 150				10/31/22 04:28	11/12/22 09:41	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-210

Lab Sample ID: 500-224532-18

Date Collected: 10/27/22 08:24

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	105		25 - 150	10/31/22 04:28	11/12/22 09:41	1
13C4 PFOS	103		25 - 150	10/31/22 04:28	11/12/22 09:41	1
13C8 FOSA	114		10 - 150	10/31/22 04:28	11/12/22 09:41	1
d3-NMeFOSAA	77		25 - 150	10/31/22 04:28	11/12/22 09:41	1
d5-NEtFOSAA	87		25 - 150	10/31/22 04:28	11/12/22 09:41	1
d-N-MeFOSA-M	81		10 - 150	10/31/22 04:28	11/12/22 09:41	1
d-N-EtFOSA-M	87		10 - 150	10/31/22 04:28	11/12/22 09:41	1
d7-N-MeFOSE-M	82		10 - 150	10/31/22 04:28	11/12/22 09:41	1
d9-N-EtFOSE-M	89		10 - 150	10/31/22 04:28	11/12/22 09:41	1
M2-4:2 FTS	133		25 - 150	10/31/22 04:28	11/12/22 09:41	1
M2-6:2 FTS	108		25 - 150	10/31/22 04:28	11/12/22 09:41	1
M2-8:2 FTS	104		25 - 150	10/31/22 04:28	11/12/22 09:41	1
13C3 HFPO-DA	84		25 - 150	10/31/22 04:28	11/12/22 09:41	1
13C2 10:2 FTS	84		25 - 150	10/31/22 04:28	11/12/22 09:41	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorooctanoic acid (PFOA)	1800		19	8.2	ng/L		10/31/22 04:28	11/15/22 19:04	10

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOA	89		25 - 150	10/31/22 04:28	11/15/22 19:04	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-48

Lab Sample ID: 500-224532-19

Date Collected: 10/27/22 09:34

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.1		4.7	2.2	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluoropentanoic acid (PFPeA)	2.9		1.9	0.46	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorohexanoic acid (PFHxA)	9.4		1.9	0.54	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluoroheptanoic acid (PFHpA)	35		1.9	0.23	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorononanoic acid (PFNA)	2.1		1.9	0.25	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorobutanesulfonic acid (PFBS)	1.3	J I	1.9	0.19	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorohexanesulfonic acid (PFHxS)	2.0		1.9	0.53	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorooctanesulfonic acid (PFOS)	16		1.9	0.50	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/31/22 04:28	11/12/22 09:52	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 04:28	11/12/22 09:52	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:28	11/12/22 09:52	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:28	11/12/22 09:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:28	11/12/22 09:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:28	11/12/22 09:52	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:28	11/12/22 09:52	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:28	11/12/22 09:52	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:28	11/12/22 09:52	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/31/22 04:28	11/12/22 09:52	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:28	11/12/22 09:52	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:28	11/12/22 09:52	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:28	11/12/22 09:52	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:28	11/12/22 09:52	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:28	11/12/22 09:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	71		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C5 PFPeA	88		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C2 PFHxA	95		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C4 PFHpA	98		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C4 PFOA	93		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C5 PFNA	98		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C2 PFDA	101		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C2 PFUnA	82		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C2 PFDoA	74		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C2 PFTeDA	65		25 - 150	10/31/22 04:28	11/12/22 09:52	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-48

Lab Sample ID: 500-224532-19

Date Collected: 10/27/22 09:34

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C3 PFBS	99		25 - 150	10/31/22 04:28	11/12/22 09:52	1
18O2 PFHxS	98		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C4 PFOS	90		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C8 FOSA	112		10 - 150	10/31/22 04:28	11/12/22 09:52	1
d3-NMeFOSAA	70		25 - 150	10/31/22 04:28	11/12/22 09:52	1
d5-NEtFOSAA	72		25 - 150	10/31/22 04:28	11/12/22 09:52	1
d-N-MeFOSA-M	58		10 - 150	10/31/22 04:28	11/12/22 09:52	1
d-N-EtFOSA-M	57		10 - 150	10/31/22 04:28	11/12/22 09:52	1
d7-N-MeFOSE-M	62		10 - 150	10/31/22 04:28	11/12/22 09:52	1
d9-N-EtFOSE-M	63		10 - 150	10/31/22 04:28	11/12/22 09:52	1
M2-4:2 FTS	113		25 - 150	10/31/22 04:28	11/12/22 09:52	1
M2-6:2 FTS	93		25 - 150	10/31/22 04:28	11/12/22 09:52	1
M2-8:2 FTS	95		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C3 HFPO-DA	78		25 - 150	10/31/22 04:28	11/12/22 09:52	1
13C2 10:2 FTS	71		25 - 150	10/31/22 04:28	11/12/22 09:52	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>RL</u>	<u>MDL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Perfluorooctanoic acid (PFOA)	1100		19	7.9	ng/L		10/31/22 04:28	11/15/22 19:14	10

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C4 PFOA	96		25 - 150	10/31/22 04:28	11/15/22 19:14	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-29

Lab Sample ID: 500-224532-20

Date Collected: 10/27/22 10:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		4.6	2.2	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluoropentanoic acid (PFPeA)	3.4		1.9	0.45	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorohexanoic acid (PFHxA)	3.3		1.9	0.54	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluoroheptanoic acid (PFHpA)	2.7		1.9	0.23	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorooctanoic acid (PFOA)	45		1.9	0.79	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorononanoic acid (PFNA)	0.40	J	1.9	0.25	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorobutanesulfonic acid (PFBS)	1.7	J I	1.9	0.19	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluoropentanesulfonic acid (PFPeS)	0.41	J	1.9	0.28	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorohexanesulfonic acid (PFHxS)	6.0		1.9	0.53	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorooctanesulfonic acid (PFOS)	20		1.9	0.50	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 04:28	11/12/22 10:02	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 04:28	11/12/22 10:02	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:28	11/12/22 10:02	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:28	11/12/22 10:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 04:28	11/12/22 10:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 04:28	11/12/22 10:02	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:28	11/12/22 10:02	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:28	11/12/22 10:02	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:28	11/12/22 10:02	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 04:28	11/12/22 10:02	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:28	11/12/22 10:02	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:28	11/12/22 10:02	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:28	11/12/22 10:02	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:28	11/12/22 10:02	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:28	11/12/22 10:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	61		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C5 PFPeA	77		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C2 PFHxA	91		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C4 PFHpA	96		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C4 PFOA	99		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C5 PFNA	104		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C2 PFDA	104		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C2 PFUnA	98		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C2 PFDoA	92		25 - 150	10/31/22 04:28	11/12/22 10:02	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-29
Date Collected: 10/27/22 10:10
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-20
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFTeDA	88		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C3 PFBS	97		25 - 150	10/31/22 04:28	11/12/22 10:02	1
18O2 PFHxS	94		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C4 PFOS	94		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C8 FOSA	110		10 - 150	10/31/22 04:28	11/12/22 10:02	1
d3-NMeFOSAA	75		25 - 150	10/31/22 04:28	11/12/22 10:02	1
d5-NEtFOSAA	82		25 - 150	10/31/22 04:28	11/12/22 10:02	1
d-N-MeFOSA-M	76		10 - 150	10/31/22 04:28	11/12/22 10:02	1
d-N-EtFOSA-M	79		10 - 150	10/31/22 04:28	11/12/22 10:02	1
d7-N-MeFOSE-M	79		10 - 150	10/31/22 04:28	11/12/22 10:02	1
d9-N-EtFOSE-M	88		10 - 150	10/31/22 04:28	11/12/22 10:02	1
M2-4:2 FTS	115		25 - 150	10/31/22 04:28	11/12/22 10:02	1
M2-6:2 FTS	115		25 - 150	10/31/22 04:28	11/12/22 10:02	1
M2-8:2 FTS	107		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C3 HFPO-DA	82		25 - 150	10/31/22 04:28	11/12/22 10:02	1
13C2 10:2 FTS	101		25 - 150	10/31/22 04:28	11/12/22 10:02	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: EB-10
Date Collected: 10/27/22 10:40
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-21
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.5		5.1	2.5	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluoropentanoic acid (PFPeA)	<0.50		2.0	0.50	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorohexanoic acid (PFHxA)	<0.59		2.0	0.59	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.0	0.26	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorooctanoic acid (PFOA)	<0.87		2.0	0.87	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorononanoic acid (PFNA)	<0.28		2.0	0.28	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorodecanoic acid (PFDA)	<0.32		2.0	0.32	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorododecanoic acid (PFDoA)	<0.56		2.0	0.56	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.75		2.0	0.75	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.0	0.31	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorohexanesulfonic acid (PFHxS)	<0.58		2.0	0.58	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorooctanesulfonic acid (PFOS)	<0.55		2.0	0.55	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.0	0.38	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.0	0.33	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.99		2.0	0.99	ng/L		10/31/22 04:28	11/12/22 10:12	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.0	1.0	ng/L		10/31/22 04:28	11/12/22 10:12	1
NEtFOSA	<0.89		2.0	0.89	ng/L		10/31/22 04:28	11/12/22 10:12	1
NMeFOSA	<0.44		2.0	0.44	ng/L		10/31/22 04:28	11/12/22 10:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.1	1.2	ng/L		10/31/22 04:28	11/12/22 10:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.1	1.3	ng/L		10/31/22 04:28	11/12/22 10:12	1
NMeFOSE	<1.4		4.1	1.4	ng/L		10/31/22 04:28	11/12/22 10:12	1
NEtFOSE	<0.87		2.0	0.87	ng/L		10/31/22 04:28	11/12/22 10:12	1
4:2 FTS	<0.25		2.0	0.25	ng/L		10/31/22 04:28	11/12/22 10:12	1
6:2 FTS	<2.6		5.1	2.6	ng/L		10/31/22 04:28	11/12/22 10:12	1
8:2 FTS	<0.47		2.0	0.47	ng/L		10/31/22 04:28	11/12/22 10:12	1
DONA	<0.41		2.0	0.41	ng/L		10/31/22 04:28	11/12/22 10:12	1
HFPO-DA (GenX)	<1.5		4.1	1.5	ng/L		10/31/22 04:28	11/12/22 10:12	1
F-53B Major	<0.25		2.0	0.25	ng/L		10/31/22 04:28	11/12/22 10:12	1
F-53B Minor	<0.33		2.0	0.33	ng/L		10/31/22 04:28	11/12/22 10:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C5 PFPeA	97		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C2 PFHxA	95		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C4 PFHpA	100		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C4 PFOA	101		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C5 PFNA	97		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C2 PFDA	101		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C2 PFUnA	98		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C2 PFDoA	107		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C2 PFTeDA	93		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C3 PFBS	106		25 - 150	10/31/22 04:28	11/12/22 10:12	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: EB-10
Date Collected: 10/27/22 10:40
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-21
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	97		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C4 PFOS	99		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C8 FOSA	102		10 - 150	10/31/22 04:28	11/12/22 10:12	1
d3-NMeFOSAA	71		25 - 150	10/31/22 04:28	11/12/22 10:12	1
d5-NEtFOSAA	89		25 - 150	10/31/22 04:28	11/12/22 10:12	1
d-N-MeFOSA-M	72		10 - 150	10/31/22 04:28	11/12/22 10:12	1
d-N-EtFOSA-M	78		10 - 150	10/31/22 04:28	11/12/22 10:12	1
d7-N-MeFOSE-M	88		10 - 150	10/31/22 04:28	11/12/22 10:12	1
d9-N-EtFOSE-M	95		10 - 150	10/31/22 04:28	11/12/22 10:12	1
M2-4:2 FTS	85		25 - 150	10/31/22 04:28	11/12/22 10:12	1
M2-6:2 FTS	90		25 - 150	10/31/22 04:28	11/12/22 10:12	1
M2-8:2 FTS	97		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C3 HFPO-DA	91		25 - 150	10/31/22 04:28	11/12/22 10:12	1
13C2 10:2 FTS	120		25 - 150	10/31/22 04:28	11/12/22 10:12	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: FB-10
Date Collected: 10/27/22 10:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-22
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorohexanoic acid (PFHxA)	<0.59		2.0	0.59	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorooctanoic acid (PFOA)	<0.86		2.0	0.86	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorododecanoic acid (PFDoA)	<0.56		2.0	0.56	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.74		2.0	0.74	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorohexanesulfonic acid (PFHxS)	<0.58		2.0	0.58	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorooctanesulfonic acid (PFOS)	<0.55		2.0	0.55	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.98		2.0	0.98	ng/L		10/31/22 04:28	11/12/22 10:22	1
Perfluorooctanesulfonamide (FOSA)	<0.99		2.0	0.99	ng/L		10/31/22 04:28	11/12/22 10:22	1
NEtFOSA	<0.88		2.0	0.88	ng/L		10/31/22 04:28	11/12/22 10:22	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:28	11/12/22 10:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:28	11/12/22 10:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:28	11/12/22 10:22	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:28	11/12/22 10:22	1
NEtFOSE	<0.86		2.0	0.86	ng/L		10/31/22 04:28	11/12/22 10:22	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:28	11/12/22 10:22	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:28	11/12/22 10:22	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:28	11/12/22 10:22	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:28	11/12/22 10:22	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:28	11/12/22 10:22	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:28	11/12/22 10:22	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:28	11/12/22 10:22	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150				10/31/22 04:28	11/12/22 10:22	1
13C5 PFPeA	91		25 - 150				10/31/22 04:28	11/12/22 10:22	1
13C2 PFHxA	90		25 - 150				10/31/22 04:28	11/12/22 10:22	1
13C4 PFHpA	91		25 - 150				10/31/22 04:28	11/12/22 10:22	1
13C4 PFOA	94		25 - 150				10/31/22 04:28	11/12/22 10:22	1
13C5 PFNA	97		25 - 150				10/31/22 04:28	11/12/22 10:22	1
13C2 PFDA	98		25 - 150				10/31/22 04:28	11/12/22 10:22	1
13C2 PFUnA	86		25 - 150				10/31/22 04:28	11/12/22 10:22	1
13C2 PFDoA	90		25 - 150				10/31/22 04:28	11/12/22 10:22	1
13C2 PFTeDA	84		25 - 150				10/31/22 04:28	11/12/22 10:22	1
13C3 PFBS	100		25 - 150				10/31/22 04:28	11/12/22 10:22	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: FB-10
Date Collected: 10/27/22 10:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-22
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	93		25 - 150	10/31/22 04:28	11/12/22 10:22	1
13C4 PFOS	93		25 - 150	10/31/22 04:28	11/12/22 10:22	1
13C8 FOSA	97		10 - 150	10/31/22 04:28	11/12/22 10:22	1
d3-NMeFOSAA	71		25 - 150	10/31/22 04:28	11/12/22 10:22	1
d5-NEtFOSAA	79		25 - 150	10/31/22 04:28	11/12/22 10:22	1
d-N-MeFOSA-M	60		10 - 150	10/31/22 04:28	11/12/22 10:22	1
d-N-EtFOSA-M	67		10 - 150	10/31/22 04:28	11/12/22 10:22	1
d7-N-MeFOSE-M	82		10 - 150	10/31/22 04:28	11/12/22 10:22	1
d9-N-EtFOSE-M	88		10 - 150	10/31/22 04:28	11/12/22 10:22	1
M2-4:2 FTS	81		25 - 150	10/31/22 04:28	11/12/22 10:22	1
M2-6:2 FTS	77		25 - 150	10/31/22 04:28	11/12/22 10:22	1
M2-8:2 FTS	80		25 - 150	10/31/22 04:28	11/12/22 10:22	1
13C3 HFPO-DA	82		25 - 150	10/31/22 04:28	11/12/22 10:22	1
13C2 10:2 FTS	80		25 - 150	10/31/22 04:28	11/12/22 10:22	1

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

GC/MS VOA

Analysis Batch: 683349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224532-6	MW-82	Total/NA	Water	8260B	
500-224532-7	MW-213	Total/NA	Water	8260B	
500-224532-8	EB-05	Total/NA	Water	8260B	
MB 500-683349/6	Method Blank	Total/NA	Water	8260B	
LCS 500-683349/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 683405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224532-7 - DL	MW-213	Total/NA	Water	8260B	
MB 500-683405/8	Method Blank	Total/NA	Water	8260B	
LCS 500-683405/5	Lab Control Sample	Total/NA	Water	8260B	

LCMS

Prep Batch: 628954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224532-18 - DL	MW-210	Total/NA	Water	3535	
500-224532-18	MW-210	Total/NA	Water	3535	
500-224532-19 - DL	MW-48	Total/NA	Water	3535	
500-224532-19	MW-48	Total/NA	Water	3535	
500-224532-20	MW-29	Total/NA	Water	3535	
500-224532-21	EB-10	Total/NA	Water	3535	
500-224532-22	FB-10	Total/NA	Water	3535	
MB 320-628954/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-628954/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-628954/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 628960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224532-1 - DL	MW-224	Total/NA	Water	3535	
500-224532-1	MW-224	Total/NA	Water	3535	
500-224532-2	PZ-224	Total/NA	Water	3535	
500-224532-3	EB-02	Total/NA	Water	3535	
500-224532-4	FB-02	Total/NA	Water	3535	
500-224532-5	MW-223	Total/NA	Water	3535	
500-224532-6	MW-82	Total/NA	Water	3535	
500-224532-6 - DL	MW-82	Total/NA	Water	3535	
500-224532-7	MW-213	Total/NA	Water	3535	
500-224532-7 - DL	MW-213	Total/NA	Water	3535	
500-224532-8	EB-05	Total/NA	Water	3535	
500-224532-9	FB-05	Total/NA	Water	3535	
500-224532-10	MW-204	Total/NA	Water	3535	
500-224532-11	MW-201	Total/NA	Water	3535	
500-224532-12	MW-205	Total/NA	Water	3535	
500-224532-13	MW-208	Total/NA	Water	3535	
500-224532-13 - DL	MW-208	Total/NA	Water	3535	
500-224532-14 - DL	MW-234	Total/NA	Water	3535	
500-224532-14	MW-234	Total/NA	Water	3535	
500-224532-15	MW-99	Total/NA	Water	3535	
500-224532-16	EB-06	Total/NA	Water	3535	
500-224532-17	FB-06	Total/NA	Water	3535	

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

LCMS (Continued)

Prep Batch: 628960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-628960/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-628960/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-628960/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 632639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224532-18	MW-210	Total/NA	Water	537 (modified)	628954
500-224532-19	MW-48	Total/NA	Water	537 (modified)	628954
500-224532-20	MW-29	Total/NA	Water	537 (modified)	628954
500-224532-21	EB-10	Total/NA	Water	537 (modified)	628954
500-224532-22	FB-10	Total/NA	Water	537 (modified)	628954
MB 320-628954/1-A	Method Blank	Total/NA	Water	537 (modified)	628954
LCS 320-628954/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	628954
LCSD 320-628954/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	628954

Analysis Batch: 632665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224532-1	MW-224	Total/NA	Water	537 (modified)	628960
500-224532-2	PZ-224	Total/NA	Water	537 (modified)	628960
500-224532-3	EB-02	Total/NA	Water	537 (modified)	628960
500-224532-4	FB-02	Total/NA	Water	537 (modified)	628960
500-224532-5	MW-223	Total/NA	Water	537 (modified)	628960
500-224532-6	MW-82	Total/NA	Water	537 (modified)	628960
500-224532-7	MW-213	Total/NA	Water	537 (modified)	628960
500-224532-8	EB-05	Total/NA	Water	537 (modified)	628960
500-224532-9	FB-05	Total/NA	Water	537 (modified)	628960
500-224532-10	MW-204	Total/NA	Water	537 (modified)	628960
500-224532-11	MW-201	Total/NA	Water	537 (modified)	628960
500-224532-12	MW-205	Total/NA	Water	537 (modified)	628960
500-224532-13	MW-208	Total/NA	Water	537 (modified)	628960
500-224532-14	MW-234	Total/NA	Water	537 (modified)	628960
500-224532-15	MW-99	Total/NA	Water	537 (modified)	628960
500-224532-16	EB-06	Total/NA	Water	537 (modified)	628960
500-224532-17	FB-06	Total/NA	Water	537 (modified)	628960
MB 320-628960/1-A	Method Blank	Total/NA	Water	537 (modified)	628960
LCS 320-628960/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	628960
LCSD 320-628960/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	628960

Analysis Batch: 633215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224532-1 - DL	MW-224	Total/NA	Water	537 (modified)	628960
500-224532-6 - DL	MW-82	Total/NA	Water	537 (modified)	628960
500-224532-7 - DL	MW-213	Total/NA	Water	537 (modified)	628960
500-224532-13 - DL	MW-208	Total/NA	Water	537 (modified)	628960
500-224532-18 - DL	MW-210	Total/NA	Water	537 (modified)	628954
500-224532-19 - DL	MW-48	Total/NA	Water	537 (modified)	628954

Analysis Batch: 633486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224532-14 - DL	MW-234	Total/NA	Water	537 (modified)	628960

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Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-224532-6	MW-82	114	95	112	108
500-224532-7	MW-213	92	93	108	104
500-224532-7 - DL	MW-213	83	98	111	99
500-224532-8	EB-05	117	96	110	106
LCS 500-683349/4	Lab Control Sample	104	98	105	102
LCS 500-683405/5	Lab Control Sample	90	95	106	107
MB 500-683349/6	Method Blank	109	95	106	107
MB 500-683405/8	Method Blank	88	103	116	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-683349/6
Matrix: Water
Analysis Batch: 683349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.50	0.15	ug/L			11/06/22 12:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/06/22 12:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/06/22 12:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/06/22 12:04	1
Bromoform	<0.48		1.0	0.48	ug/L			11/06/22 12:04	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/06/22 12:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/06/22 12:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/06/22 12:04	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/06/22 12:04	1
Chloroform	<0.37		2.0	0.37	ug/L			11/06/22 12:04	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/06/22 12:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/06/22 12:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/06/22 12:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/06/22 12:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/06/22 12:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/06/22 12:04	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/06/22 12:04	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/06/22 12:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/06/22 12:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/06/22 12:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/06/22 12:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/06/22 12:04	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/06/22 12:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/06/22 12:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/06/22 12:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/06/22 12:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/06/22 12:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/06/22 12:04	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/06/22 12:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/06/22 12:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/06/22 12:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/06/22 12:04	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 12:04	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/06/22 12:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/06/22 12:04	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/06/22 12:04	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/06/22 12:04	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/06/22 12:04	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/06/22 12:04	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/06/22 12:04	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 12:04	1
Styrene	<0.39		1.0	0.39	ug/L			11/06/22 12:04	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/06/22 12:04	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/06/22 12:04	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/06/22 12:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/06/22 12:04	1
Toluene	<0.15		0.50	0.15	ug/L			11/06/22 12:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/06/22 12:04	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-683349/6
Matrix: Water
Analysis Batch: 683349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/06/22 12:04	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/06/22 12:04	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/06/22 12:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/06/22 12:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/06/22 12:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/06/22 12:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/06/22 12:04	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/06/22 12:04	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/06/22 12:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/06/22 12:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/06/22 12:04	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/06/22 12:04	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	109		72 - 124		11/06/22 12:04	1
Dibromofluoromethane (Surr)	95		75 - 120		11/06/22 12:04	1
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		11/06/22 12:04	1
Toluene-d8 (Surr)	107		75 - 120		11/06/22 12:04	1

Lab Sample ID: LCS 500-683349/4
Matrix: Water
Analysis Batch: 683349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	45.2		ug/L		90	70 - 120
Bromobenzene	50.0	44.1		ug/L		88	70 - 122
Bromochloromethane	50.0	42.3		ug/L		85	65 - 122
Bromodichloromethane	50.0	45.7		ug/L		91	69 - 120
Bromoform	50.0	41.6		ug/L		83	56 - 132
Bromomethane	50.0	61.1		ug/L		122	40 - 152
Carbon tetrachloride	50.0	44.8		ug/L		90	59 - 133
Chlorobenzene	50.0	44.3		ug/L		89	70 - 120
Chloroethane	50.0	51.2		ug/L		102	48 - 136
Chloroform	50.0	44.2		ug/L		88	70 - 120
Chloromethane	50.0	41.3		ug/L		83	56 - 152
2-Chlorotoluene	50.0	44.5		ug/L		89	70 - 125
4-Chlorotoluene	50.0	46.4		ug/L		93	68 - 124
cis-1,2-Dichloroethene	50.0	45.0		ug/L		90	70 - 125
cis-1,3-Dichloropropene	50.0	44.4		ug/L		89	64 - 127
Dibromochloromethane	50.0	42.7		ug/L		85	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	36.4		ug/L		73	56 - 123
1,2-Dibromoethane	50.0	48.3		ug/L		97	70 - 125
Dibromomethane	50.0	46.8		ug/L		94	70 - 120
1,2-Dichlorobenzene	50.0	42.6		ug/L		85	70 - 125
1,3-Dichlorobenzene	50.0	44.4		ug/L		89	70 - 125
1,4-Dichlorobenzene	50.0	44.5		ug/L		89	70 - 120
Dichlorodifluoromethane	50.0	44.3		ug/L		89	40 - 159
1,1-Dichloroethane	50.0	41.0		ug/L		82	70 - 125

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-683349/4
Matrix: Water
Analysis Batch: 683349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	50.0	44.8		ug/L		90	68 - 127
1,1-Dichloroethene	50.0	42.1		ug/L		84	67 - 122
1,2-Dichloropropane	50.0	41.6		ug/L		83	67 - 130
1,3-Dichloropropane	50.0	47.3		ug/L		95	62 - 136
2,2-Dichloropropane	50.0	46.7		ug/L		93	58 - 139
1,1-Dichloropropene	50.0	45.2		ug/L		90	70 - 121
Ethylbenzene	50.0	44.7		ug/L		89	70 - 123
Hexachlorobutadiene	50.0	39.8		ug/L		80	51 - 150
Isopropylbenzene	50.0	43.8		ug/L		88	70 - 126
Methylene Chloride	50.0	44.0		ug/L		88	69 - 125
Methyl tert-butyl ether	50.0	47.5		ug/L		95	55 - 123
Naphthalene	50.0	31.1		ug/L		62	53 - 144
n-Butylbenzene	50.0	44.4		ug/L		89	68 - 125
N-Propylbenzene	50.0	45.2		ug/L		90	69 - 127
p-Isopropyltoluene	50.0	43.6		ug/L		87	70 - 125
sec-Butylbenzene	50.0	44.1		ug/L		88	70 - 123
Styrene	50.0	47.4		ug/L		95	70 - 120
tert-Butylbenzene	50.0	43.3		ug/L		87	70 - 121
1,1,1,2-Tetrachloroethane	50.0	40.7		ug/L		81	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/L		91	62 - 140
Tetrachloroethene	50.0	43.0		ug/L		86	70 - 128
Toluene	50.0	44.1		ug/L		88	70 - 125
trans-1,2-Dichloroethene	50.0	45.0		ug/L		90	70 - 125
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	62 - 128
1,2,3-Trichlorobenzene	50.0	34.0		ug/L		68	51 - 145
1,2,4-Trichlorobenzene	50.0	36.7		ug/L		73	57 - 137
1,1,1-Trichloroethane	50.0	46.8		ug/L		94	70 - 125
1,1,2-Trichloroethane	50.0	46.0		ug/L		92	71 - 130
Trichloroethene	50.0	42.0		ug/L		84	70 - 125
Trichlorofluoromethane	50.0	46.7		ug/L		93	55 - 128
1,2,3-Trichloropropane	50.0	47.0		ug/L		94	50 - 133
1,2,4-Trimethylbenzene	50.0	44.6		ug/L		89	70 - 123
1,3,5-Trimethylbenzene	50.0	44.5		ug/L		89	70 - 123
Vinyl chloride	50.0	45.0		ug/L		90	64 - 126
Xylenes, Total	100	92.6		ug/L		93	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		72 - 124
Dibromofluoromethane (Surr)	98		75 - 120
1,2-Dichloroethane-d4 (Surr)	105		75 - 126
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-683405/8
Matrix: Water
Analysis Batch: 683405

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/07/22 10:31	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-683405/8
Matrix: Water
Analysis Batch: 683405

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	88		72 - 124		11/07/22 10:31	1
Dibromofluoromethane (Surr)	103		75 - 120		11/07/22 10:31	1
1,2-Dichloroethane-d4 (Surr)	116		75 - 126		11/07/22 10:31	1
Toluene-d8 (Surr)	103		75 - 120		11/07/22 10:31	1

Lab Sample ID: LCS 500-683405/5
Matrix: Water
Analysis Batch: 683405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		72 - 124
Dibromofluoromethane (Surr)	95		75 - 120
1,2-Dichloroethane-d4 (Surr)	106		75 - 126
Toluene-d8 (Surr)	107		75 - 120

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-628954/1-A
Matrix: Water
Analysis Batch: 632639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628954

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 04:28	11/12/22 09:11	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 04:28	11/12/22 09:11	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 04:28	11/12/22 09:11	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628954/1-A
Matrix: Water
Analysis Batch: 632639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:28	11/12/22 09:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:28	11/12/22 09:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:28	11/12/22 09:11	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:28	11/12/22 09:11	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 04:28	11/12/22 09:11	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:28	11/12/22 09:11	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:28	11/12/22 09:11	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:28	11/12/22 09:11	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:28	11/12/22 09:11	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:28	11/12/22 09:11	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:28	11/12/22 09:11	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:28	11/12/22 09:11	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C5 PFPeA	98		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C2 PFHxA	96		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C4 PFHpA	98		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C4 PFOA	104		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C5 PFNA	102		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C2 PFDA	102		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C2 PFUnA	99		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C2 PFDoA	97		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C2 PFTeDA	91		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C3 PFBS	108		25 - 150	10/31/22 04:28	11/12/22 09:11	1
18O2 PFHxS	99		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C4 PFOS	99		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C8 FOSA	102		10 - 150	10/31/22 04:28	11/12/22 09:11	1
d3-NMeFOSAA	76		25 - 150	10/31/22 04:28	11/12/22 09:11	1
d5-NEtFOSAA	85		25 - 150	10/31/22 04:28	11/12/22 09:11	1
d-N-MeFOSA-M	68		10 - 150	10/31/22 04:28	11/12/22 09:11	1
d-N-EtFOSA-M	75		10 - 150	10/31/22 04:28	11/12/22 09:11	1
d7-N-MeFOSE-M	87		10 - 150	10/31/22 04:28	11/12/22 09:11	1
d9-N-EtFOSE-M	91		10 - 150	10/31/22 04:28	11/12/22 09:11	1
M2-4:2 FTS	91		25 - 150	10/31/22 04:28	11/12/22 09:11	1
M2-6:2 FTS	82		25 - 150	10/31/22 04:28	11/12/22 09:11	1
M2-8:2 FTS	80		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C3 HFPO-DA	89		25 - 150	10/31/22 04:28	11/12/22 09:11	1
13C2 10:2 FTS	80		25 - 150	10/31/22 04:28	11/12/22 09:11	1

Lab Sample ID: LCS 320-628954/2-A
Matrix: Water
Analysis Batch: 632639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	44.5		ng/L		111	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	39.9		ng/L		100	60 - 135

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628954/2-A
Matrix: Water
Analysis Batch: 632639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid (PFHxA)	40.0	41.6		ng/L		104	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	39.6		ng/L		99	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	39.1		ng/L		98	60 - 135
Perfluorononanoic acid (PFNA)	40.0	41.5		ng/L		104	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.5		ng/L		101	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	38.4		ng/L		96	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	37.6		ng/L		94	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	42.3		ng/L		106	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	39.8		ng/L		99	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	33.6		ng/L		95	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	36.5		ng/L		97	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.4		ng/L		97	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.4		ng/L		106	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	39.2		ng/L		105	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	41.5		ng/L		108	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	35.1		ng/L		91	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.2		ng/L		101	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	40.7		ng/L		102	60 - 135
NEtFOSA	40.0	44.7		ng/L		112	60 - 135
NMeFOSA	40.0	44.4		ng/L		111	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.0		ng/L		105	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.5		ng/L		106	60 - 135
NMeFOSE	40.0	43.6		ng/L		109	60 - 135
NEtFOSE	40.0	39.4		ng/L		98	60 - 135
4:2 FTS	37.5	36.2		ng/L		97	60 - 135
6:2 FTS	38.1	38.7		ng/L		102	60 - 135
8:2 FTS	38.4	42.9		ng/L		112	60 - 135
DONA	37.8	41.5		ng/L		110	60 - 135
HFPO-DA (GenX)	40.0	42.1		ng/L		105	60 - 135
F-53B Major	37.4	35.8		ng/L		96	60 - 135
F-53B Minor	37.8	35.6		ng/L		94	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	103		25 - 150
13C5 PFPeA	103		25 - 150
13C2 PFHxA	102		25 - 150
13C4 PFHpA	102		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628954/2-A
Matrix: Water
Analysis Batch: 632639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628954

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFOA	104		25 - 150
13C5 PFNA	105		25 - 150
13C2 PFDA	105		25 - 150
13C2 PFUnA	99		25 - 150
13C2 PFDoA	104		25 - 150
13C2 PFTeDA	90		25 - 150
13C3 PFBS	108		25 - 150
18O2 PFHxS	104		25 - 150
13C4 PFOS	101		25 - 150
13C8 FOSA	102		10 - 150
d3-NMeFOSAA	85		25 - 150
d5-NEtFOSAA	90		25 - 150
d-N-MeFOSA-M	58		10 - 150
d-N-EtFOSA-M	65		10 - 150
d7-N-MeFOSE-M	81		10 - 150
d9-N-EtFOSE-M	91		10 - 150
M2-4:2 FTS	88		25 - 150
M2-6:2 FTS	81		25 - 150
M2-8:2 FTS	85		25 - 150
13C3 HFPO-DA	91		25 - 150
13C2 10:2 FTS	85		25 - 150

Lab Sample ID: LCSD 320-628954/3-A
Matrix: Water
Analysis Batch: 632639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	42.0		ng/L		105	60 - 135	6	30	
Perfluoropentanoic acid (PFPeA)	40.0	40.0		ng/L		100	60 - 135	0	30	
Perfluorohexanoic acid (PFHxA)	40.0	42.0		ng/L		105	60 - 135	1	30	
Perfluoroheptanoic acid (PFHpA)	40.0	41.0		ng/L		103	60 - 135	4	30	
Perfluorooctanoic acid (PFOA)	40.0	43.1		ng/L		108	60 - 135	10	30	
Perfluorononanoic acid (PFNA)	40.0	40.0		ng/L		100	60 - 135	4	30	
Perfluorodecanoic acid (PFDA)	40.0	38.5		ng/L		96	60 - 135	5	30	
Perfluoroundecanoic acid (PFUnA)	40.0	41.7		ng/L		104	60 - 135	8	30	
Perfluorododecanoic acid (PFDoA)	40.0	39.2		ng/L		98	60 - 135	4	30	
Perfluorotridecanoic acid (PFTriA)	40.0	42.4		ng/L		106	60 - 135	0	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	39.4		ng/L		99	60 - 135	1	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	31.4		ng/L		88	60 - 135	7	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.8		ng/L		95	60 - 135	2	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.0		ng/L		93	60 - 135	4	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	36.3		ng/L		95	60 - 135	11	30	

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628954/3-A
Matrix: Water
Analysis Batch: 632639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	37.2	36.9		ng/L		99	60 - 135	6	30
Perfluorononanesulfonic acid (PFNS)	38.5	39.4		ng/L		102	60 - 135	5	30
Perfluorodecanesulfonic acid (PFDS)	38.6	31.7		ng/L		82	60 - 135	10	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	34.7		ng/L		89	60 - 135	12	30
Perfluorooctanesulfonamide (FOSA)	40.0	39.3		ng/L		98	60 - 135	3	30
NEtFOSA	40.0	45.7		ng/L		114	60 - 135	2	30
NMeFOSA	40.0	42.2		ng/L		106	60 - 135	5	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.0		ng/L		108	60 - 135	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.4		ng/L		101	60 - 135	5	30
NMeFOSE	40.0	41.1		ng/L		103	60 - 135	6	30
NEtFOSE	40.0	42.9		ng/L		107	60 - 135	9	30
4:2 FTS	37.5	37.2		ng/L		99	60 - 135	3	30
6:2 FTS	38.1	36.1		ng/L		95	60 - 135	7	30
8:2 FTS	38.4	40.8		ng/L		106	60 - 135	5	30
DONA	37.8	39.3		ng/L		104	60 - 135	6	30
HFPO-DA (GenX)	40.0	41.1		ng/L		103	60 - 135	2	30
F-53B Major	37.4	34.4		ng/L		92	60 - 135	4	30
F-53B Minor	37.8	32.7		ng/L		87	60 - 135	8	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	99		25 - 150
13C5 PFPeA	96		25 - 150
13C2 PFHxA	91		25 - 150
13C4 PFHpA	94		25 - 150
13C4 PFOA	93		25 - 150
13C5 PFNA	99		25 - 150
13C2 PFDA	103		25 - 150
13C2 PFUnA	87		25 - 150
13C2 PFDoA	92		25 - 150
13C2 PFTeDA	87		25 - 150
13C3 PFBS	106		25 - 150
18O2 PFHxS	98		25 - 150
13C4 PFOS	103		25 - 150
13C8 FOSA	101		10 - 150
d3-NMeFOSAA	74		25 - 150
d5-NEtFOSAA	80		25 - 150
d-N-MeFOSA-M	69		10 - 150
d-N-EtFOSA-M	73		10 - 150
d7-N-MeFOSE-M	81		10 - 150
d9-N-EtFOSE-M	86		10 - 150
M2-4:2 FTS	88		25 - 150
M2-6:2 FTS	88		25 - 150
M2-8:2 FTS	83		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628954/3-A
Matrix: Water
Analysis Batch: 632639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628954

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	90		25 - 150
13C2 10:2 FTS	85		25 - 150

Lab Sample ID: MB 320-628960/1-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 04:47	11/12/22 13:34	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 04:47	11/12/22 13:34	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 04:47	11/12/22 13:34	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:47	11/12/22 13:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:47	11/12/22 13:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:47	11/12/22 13:34	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:47	11/12/22 13:34	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 04:47	11/12/22 13:34	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 13:34	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:47	11/12/22 13:34	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:47	11/12/22 13:34	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:47	11/12/22 13:34	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:47	11/12/22 13:34	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:47	11/12/22 13:34	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:47	11/12/22 13:34	1

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	91		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C5 PFPeA	92		25 - 150	10/31/22 04:47	11/12/22 13:34	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628960/1-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628960

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	91		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C4 PFHpA	92		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C4 PFOA	97		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C5 PFNA	96		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 PFDA	118		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 PFUnA	86		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 PFDoA	92		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 PFTeDA	75		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C3 PFBS	101		25 - 150	10/31/22 04:47	11/12/22 13:34	1
18O2 PFHxS	92		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C4 PFOS	91		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C8 FOSA	112		10 - 150	10/31/22 04:47	11/12/22 13:34	1
d3-NMeFOSAA	66		25 - 150	10/31/22 04:47	11/12/22 13:34	1
d5-NEtFOSAA	78		25 - 150	10/31/22 04:47	11/12/22 13:34	1
d-N-MeFOSA-M	68		10 - 150	10/31/22 04:47	11/12/22 13:34	1
d-N-EtFOSA-M	71		10 - 150	10/31/22 04:47	11/12/22 13:34	1
d7-N-MeFOSE-M	83		10 - 150	10/31/22 04:47	11/12/22 13:34	1
d9-N-EtFOSE-M	85		10 - 150	10/31/22 04:47	11/12/22 13:34	1
M2-4:2 FTS	87		25 - 150	10/31/22 04:47	11/12/22 13:34	1
M2-6:2 FTS	87		25 - 150	10/31/22 04:47	11/12/22 13:34	1
M2-8:2 FTS	95		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C3 HFPO-DA	88		25 - 150	10/31/22 04:47	11/12/22 13:34	1
13C2 10:2 FTS	84		25 - 150	10/31/22 04:47	11/12/22 13:34	1

Lab Sample ID: LCS 320-628960/2-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Perfluoropentanoic acid (PFPeA)	40.0	42.3		ng/L		106	60 - 135	
Perfluorohexanoic acid (PFHxA)	40.0	41.7		ng/L		104	60 - 135	
Perfluoroheptanoic acid (PFHpA)	40.0	44.7		ng/L		112	60 - 135	
Perfluorooctanoic acid (PFOA)	40.0	40.9		ng/L		102	60 - 135	
Perfluorononanoic acid (PFNA)	40.0	41.0		ng/L		102	60 - 135	
Perfluorodecanoic acid (PFDA)	40.0	41.6		ng/L		104	60 - 135	
Perfluoroundecanoic acid (PFUnA)	40.0	38.4		ng/L		96	60 - 135	
Perfluorododecanoic acid (PFDoA)	40.0	41.0		ng/L		103	60 - 135	
Perfluorotridecanoic acid (PFTriA)	40.0	41.3		ng/L		103	60 - 135	
Perfluorotetradecanoic acid (PFTeA)	40.0	39.7		ng/L		99	60 - 135	
Perfluorobutanesulfonic acid (PFBS)	35.5	31.1		ng/L		88	60 - 135	
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.0		ng/L		93	60 - 135	
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.2		ng/L		99	60 - 135	

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628960/2-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	38.2	48.1		ng/L		126	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	42.2		ng/L		113	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	43.1		ng/L		112	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	37.6		ng/L		97	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.6		ng/L		102	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	41.9		ng/L		105	60 - 135
NEtFOSA	40.0	44.2		ng/L		110	60 - 135
NMeFOSA	40.0	45.1		ng/L		113	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.6		ng/L		107	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.0		ng/L		103	60 - 135
NMeFOSE	40.0	41.5		ng/L		104	60 - 135
NEtFOSE	40.0	40.8		ng/L		102	60 - 135
4:2 FTS	37.5	36.3		ng/L		97	60 - 135
6:2 FTS	38.1	37.2		ng/L		98	60 - 135
8:2 FTS	38.4	37.3		ng/L		97	60 - 135
DONA	37.8	46.2		ng/L		122	60 - 135
HFPO-DA (GenX)	40.0	44.8		ng/L		112	60 - 135
F-53B Major	37.4	42.2		ng/L		113	60 - 135
F-53B Minor	37.8	41.2		ng/L		109	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	93		25 - 150
13C5 PFPeA	93		25 - 150
13C2 PFHxA	94		25 - 150
13C4 PFHpA	92		25 - 150
13C4 PFOA	95		25 - 150
13C5 PFNA	84		25 - 150
13C2 PFDA	90		25 - 150
13C2 PFUnA	89		25 - 150
13C2 PFDoA	86		25 - 150
13C2 PFTeDA	80		25 - 150
13C3 PFBS	106		25 - 150
18O2 PFHxS	95		25 - 150
13C4 PFOS	79		25 - 150
13C8 FOSA	84		10 - 150
d3-NMeFOSAA	71		25 - 150
d5-NEtFOSAA	73		25 - 150
d-N-MeFOSA-M	71		10 - 150
d-N-EtFOSA-M	75		10 - 150
d7-N-MeFOSE-M	81		10 - 150
d9-N-EtFOSE-M	84		10 - 150
M2-4:2 FTS	89		25 - 150
M2-6:2 FTS	87		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628960/2-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628960

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-8:2 FTS	89		25 - 150
13C3 HFPO-DA	86		25 - 150
13C2 10:2 FTS	84		25 - 150

Lab Sample ID: LCSD 320-628960/3-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628960

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD
									Limit
Perfluorobutanoic acid (PFBA)	40.0	41.3		ng/L		103	60 - 135	3	30
Perfluoropentanoic acid (PFPeA)	40.0	40.5		ng/L		101	60 - 135	4	30
Perfluorohexanoic acid (PFHxA)	40.0	40.0		ng/L		100	60 - 135	4	30
Perfluoroheptanoic acid (PFHpA)	40.0	40.4		ng/L		101	60 - 135	10	30
Perfluorooctanoic acid (PFOA)	40.0	43.1		ng/L		108	60 - 135	5	30
Perfluorononanoic acid (PFNA)	40.0	41.3		ng/L		103	60 - 135	1	30
Perfluorodecanoic acid (PFDA)	40.0	38.0		ng/L		95	60 - 135	9	30
Perfluoroundecanoic acid (PFUnA)	40.0	39.0		ng/L		97	60 - 135	1	30
Perfluorododecanoic acid (PFDoA)	40.0	38.4		ng/L		96	60 - 135	7	30
Perfluorotridecanoic acid (PFTriA)	40.0	41.1		ng/L		103	60 - 135	0	30
Perfluorotetradecanoic acid (PFTeA)	40.0	41.9		ng/L		105	60 - 135	6	30
Perfluorobutanesulfonic acid (PFBS)	35.5	34.0		ng/L		96	60 - 135	9	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.1		ng/L		94	60 - 135	0	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.7		ng/L		98	60 - 135	1	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	47.9		ng/L		125	60 - 135	1	30
Perfluorooctanesulfonic acid (PFOS)	37.2	41.6		ng/L		112	60 - 135	1	30
Perfluorononanesulfonic acid (PFNS)	38.5	40.0		ng/L		104	60 - 135	7	30
Perfluorodecanesulfonic acid (PFDS)	38.6	39.0		ng/L		101	60 - 135	4	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.5		ng/L		102	60 - 135	0	30
Perfluorooctanesulfonamide (FOSA)	40.0	38.5		ng/L		96	60 - 135	8	30
NEtFOSA	40.0	43.6		ng/L		109	60 - 135	1	30
NMeFOSA	40.0	43.1		ng/L		108	60 - 135	5	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.4		ng/L		101	60 - 135	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.5		ng/L		99	60 - 135	4	30
NMeFOSE	40.0	42.0		ng/L		105	60 - 135	1	30
NEtFOSE	40.0	41.7		ng/L		104	60 - 135	2	30
4:2 FTS	37.5	37.3		ng/L		99	60 - 135	3	30
6:2 FTS	38.1	37.5		ng/L		98	60 - 135	1	30
8:2 FTS	38.4	38.8		ng/L		101	60 - 135	4	30

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628960/3-A
Matrix: Water
Analysis Batch: 632665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628960

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DONA	37.8	48.7		ng/L		129	60 - 135	5	30
HFPO-DA (GenX)	40.0	41.8		ng/L		104	60 - 135	7	30
F-53B Major	37.4	40.7		ng/L		109	60 - 135	4	30
F-53B Minor	37.8	41.6		ng/L		110	60 - 135	1	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	98		25 - 150
13C5 PFPeA	97		25 - 150
13C2 PFHxA	98		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	95		25 - 150
13C5 PFNA	85		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	86		25 - 150
13C2 PFDaA	94		25 - 150
13C2 PFTeDA	84		25 - 150
13C3 PFBS	106		25 - 150
18O2 PFHxS	100		25 - 150
13C4 PFOS	83		25 - 150
13C8 FOSA	94		10 - 150
d3-NMeFOSAA	73		25 - 150
d5-NEtFOSAA	82		25 - 150
d-N-MeFOSA-M	73		10 - 150
d-N-EtFOSA-M	78		10 - 150
d7-N-MeFOSE-M	83		10 - 150
d9-N-EtFOSE-M	85		10 - 150
M2-4:2 FTS	94		25 - 150
M2-6:2 FTS	90		25 - 150
M2-8:2 FTS	83		25 - 150
13C3 HFPO-DA	91		25 - 150
13C2 10:2 FTS	85		25 - 150

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-224

Date Collected: 10/24/22 16:10

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 14:05
Total/NA	Prep	3535	DL		628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)	DL	5	633215	RS1	EET SAC	11/15/22 19:24

Client Sample ID: PZ-224

Date Collected: 10/24/22 14:57

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 14:15

Client Sample ID: EB-02

Date Collected: 10/24/22 16:30

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 14:25

Client Sample ID: FB-02

Date Collected: 10/24/22 16:35

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 14:35

Client Sample ID: MW-223

Date Collected: 10/25/22 13:55

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 14:45

Client Sample ID: MW-82

Date Collected: 10/25/22 15:05

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683349	W1T	EET CHI	11/06/22 19:22
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 14:55

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-82
Date Collected: 10/25/22 15:05
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)	DL	10	633215	RS1	EET SAC	11/15/22 19:35

Client Sample ID: MW-213
Date Collected: 10/25/22 16:25
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683349	W1T	EET CHI	11/06/22 20:07
Total/NA	Analysis	8260B	DL	10	683405	W1T	EET CHI	11/07/22 12:25
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 15:06
Total/NA	Prep	3535	DL		628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)	DL	10	633215	RS1	EET SAC	11/15/22 19:45

Client Sample ID: EB-05
Date Collected: 10/25/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683349	W1T	EET CHI	11/06/22 19:44
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 15:36

Client Sample ID: FB-05
Date Collected: 10/25/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 15:46

Client Sample ID: MW-204
Date Collected: 10/26/22 08:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 15:56

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: MW-201
Date Collected: 10/26/22 10:22
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 16:06

Client Sample ID: MW-205
Date Collected: 10/26/22 12:25
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 16:16

Client Sample ID: MW-208
Date Collected: 10/26/22 13:35
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 16:27
Total/NA	Prep	3535	DL		628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)	DL	10	633215	RS1	EET SAC	11/15/22 19:55

Client Sample ID: MW-234
Date Collected: 10/26/22 14:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 16:37
Total/NA	Prep	3535	DL		628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)	DL	10	633486	K1S	EET SAC	11/17/22 05:09

Client Sample ID: MW-99
Date Collected: 10/26/22 15:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 16:47

Client Sample ID: EB-06
Date Collected: 10/26/22 16:25
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 16:57

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Client Sample ID: FB-06

Date Collected: 10/26/22 16:30

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628960	NSS	EET SAC	10/31/22 04:47
Total/NA	Analysis	537 (modified)		1	632665	S1M	EET SAC	11/12/22 17:07

Client Sample ID: MW-210

Date Collected: 10/27/22 08:24

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628954	EFG	EET SAC	10/31/22 04:28
Total/NA	Analysis	537 (modified)		1	632639	S1M	EET SAC	11/12/22 09:41
Total/NA	Prep	3535	DL		628954	EFG	EET SAC	10/31/22 04:28
Total/NA	Analysis	537 (modified)	DL	10	633215	RS1	EET SAC	11/15/22 19:04

Client Sample ID: MW-48

Date Collected: 10/27/22 09:34

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628954	EFG	EET SAC	10/31/22 04:28
Total/NA	Analysis	537 (modified)		1	632639	S1M	EET SAC	11/12/22 09:52
Total/NA	Prep	3535	DL		628954	EFG	EET SAC	10/31/22 04:28
Total/NA	Analysis	537 (modified)	DL	10	633215	RS1	EET SAC	11/15/22 19:14

Client Sample ID: MW-29

Date Collected: 10/27/22 10:10

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628954	EFG	EET SAC	10/31/22 04:28
Total/NA	Analysis	537 (modified)		1	632639	S1M	EET SAC	11/12/22 10:02

Client Sample ID: EB-10

Date Collected: 10/27/22 10:40

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628954	EFG	EET SAC	10/31/22 04:28
Total/NA	Analysis	537 (modified)		1	632639	S1M	EET SAC	11/12/22 10:12

Client Sample ID: FB-10

Date Collected: 10/27/22 10:45

Date Received: 10/28/22 10:10

Lab Sample ID: 500-224532-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628954	EFG	EET SAC	10/31/22 04:28
Total/NA	Analysis	537 (modified)		1	632639	S1M	EET SAC	11/12/22 10:22

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Accreditation/Certification Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Laboratory: Eurofins Sacramento

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

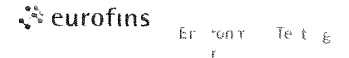
Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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Eurofins TestAmerica, Chicago

2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



Client Information		Sampler <u>Parker Osborne</u>		Lab PM Fredrick Sandie		Carrier Tracking No(s)		COC No 500-87887-39456 1																																		
Client Contact: Paul Lindquist		Phone <u>312-288-3902</u>		E Mail sandra.fredrick@eurofinset.com		State of Origin <u>WI</u>		Page Page 1 of 2																																		
Company Ramboll US Corporation			PWSID		Analysis Requested					Job <u>500-224532</u>																																
Address 234 W Florida Street			Due Date Requested		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Field Filtered Sample (Yes or No)</th> <th rowspan="2">Perform MS/MSD (Yes or No)</th> <th rowspan="2">PFAS Extended List (36 Analytes) PFC_IDA_WI</th> <th rowspan="2">VOCs 8260B</th> <th rowspan="2">AI</th> <th rowspan="2">Sb</th> <th colspan="4">6020A (Metals)</th> <th rowspan="2">Pb</th> <th rowspan="2">PCBs 8082A</th> </tr> <tr> <th>As</th> <th>Cr</th> <th>D</th> <th>D</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>					Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	AI	Sb	6020A (Metals)				Pb	PCBs 8082A	As	Cr	D	D																Preservation Codes	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	AI												Sb	6020A (Metals)					Pb	PCBs 8082A																			
										As	Cr	D	D																													
City Milwaukee			TAT Requested (days) <u>STD</u>							A HCL		M Hexane		B NaOH		N None																										
State Zip WI 53204			Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No							C Zn Acetate		O AsNaO2		D Nitric Acid		P Na2O4S																										
Phone 262-901-3510(Tel)			PO # 1690019647		E NaHSO4		Q Na2SO3		F MeOH		R Na2S2O3																															
Email plindquist@ramboll.com			WO #		G Amchlor		S H2SO4		H Ascorbic Acid		T TSP Dodecahydrate																															
Project Name Former Mirro Plant No 9 1690019647			Project # 50018382		I Ice		U Acetone		J DI Water		V MCAA																															
Site			SSOW#		K EDTA		W pH 4-5		L EDA		Z other (specify)																															
					Other:																																					
Sample Identification			Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFAS Extended List (36 Analytes) PFC_IDA_WI		VOCs 8260B		AI		Sb		As		Cr		D		D		Pb		PCBs 8082A		Total Number of Containers		Special Instructions/Note					
1 MW-224			10/24/22		16:10		G		Water		N		N		X																											
2 PZ-224			10/24/22		14:57		G		Water		N		N		X																											
3 EB-02			10/24/22		16:30		G		Water		N		N		X																											
4 FB-02			10/24/22		16:35		G		Water		N		N		X																											
5 MW-223			10/25/22		13:55		G		Water		N		N		X																											
6 MW-82			10/25/22		15:05		G		Water		N		N		X		X																									
7 MW-213			10/25/22		16:25		G		Water		N		N		X		X																									
8 EB-05			10/25/22		16:50		G		Water		N		N		X		X																									
9 FB-05			10/25/22		16:55		G		Water		N		N		X																											
10 MW-204			10/26/22		08:45		G		Water		N		N		X																											
11 MW-201			10/26/22		10:22		G		Water		N		N		X																											

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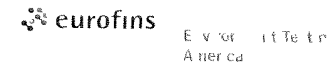
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Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)				Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date		Time		Method of Shipment	
Relinquished by <u>[Signature]</u>		Date/Time 10-27-22 1510		Company Ramboll		Received by <u>[Signature]</u>	
Relinquished by <u>[Signature]</u>		Date/Time 10/27/22 1700		Company Eurofins		Received by <u>[Signature]</u>	
Relinquished by		Date/Time		Company		Received by	
Custody Seals Intact.		Custody Seal No		Cooler Temperature(s) °C and Other Remarks			
<input type="checkbox"/> Yes <input type="checkbox"/> No				410 → 418, 25 → 267			

Eurofins TestAmerica, Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



Client Information		Sampler <i>Parker Osborne</i>		Lab PM Fredrick Sandie		Carrier Tracking No(s)		COC No 500-87887-39456 1								
Client Contact: Paul Lindquist		Phone <i>312-288-3902</i>		E-Mail sandra.fredrick@eurofinset.com		State of Origin <i>WI</i>		Page <i>2</i> of <i>2</i>								
Company: Ramboll US Corporation				PWSID		Analysis Requested										
Address: 234 W Florida Street		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) PFAS Extended List (6 Analytes) PFC_IDA_WI VOCs 8260B 6020A (Metals) PCBs 8082A		Total Number of containers		Job# <i>500-224532</i>								
City: Milwaukee		TAT Requested (days) <i>5 TO</i>						Preservation Codes								
State Zip: WI 53204		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No						A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)								
Phone: 262-901-3510(Tel)		PO #: 1690019647						Other								
Email: plindquist@ramboll.com		WO#:														
Project Name: Former Mirro Plant No 9 1690019647		Project #: 50018382														
Site		SSOW#														
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (6 Analytes) PFC_IDA_WI	VOCs 8260B	AI	Sb	As	Cr	Pb	PCBs 8082A	Special Instructions/Note
<i>12</i>	<i>MW-205</i>	<i>10/26/22</i>	<i>12:25</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
<i>13</i>	<i>MW-208</i>	<i>10/26/22</i>	<i>13:35</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
<i>14</i>	<i>MW-234</i>	<i>10/26/22</i>	<i>14:50</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
<i>15</i>	<i>MW-99</i>	<i>10/26/22</i>	<i>15:50</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
<i>16</i>	<i>EB-06</i>	<i>10/26/22</i>	<i>16:25</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
<i>17</i>	<i>EB-06</i>	<i>10/26/22</i>	<i>16:30</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
<i>18</i>	<i>MW-210</i>	<i>10/27/22</i>	<i>08:24</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
<i>19</i>	<i>MW-48</i>	<i>10/27/22</i>	<i>09:34</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
<i>20</i>	<i>MW-29</i>	<i>10/27/22</i>	<i>10:10</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
<i>21</i>	<i>EB-10</i>	<i>10/27/22</i>	<i>10:40</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
<i>22</i>	<i>EB-10</i>	<i>10/27/22</i>	<i>10:45</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>								
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements										
Empty Kit Relinquished by		Date		Time		Method of Shipment										
Relinquished by <i>[Signature]</i>		Date/Time <i>10/27/22 1510</i>		Company <i>Ramboll</i>		Received by <i>[Signature]</i>		Date/Time <i>10/27/22 1510</i>		Company <i>Eurofins</i>						
Relinquished by <i>[Signature]</i>		Date/Time <i>10/27/22 1700</i>		Company <i>Eurofins</i>		Received by <i>[Signature]</i>		Date/Time <i>10/28/22 1010</i>		Company <i>Eurofins</i>						
Relinquished by		Date/Time		Company		Received by		Date/Time		Company						
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No				Cooler Temperature(s) °C and Other Remarks										

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ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125-N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 52.60 LB
CAD: 0269688/CAFE3616

BILL RECIPIENT

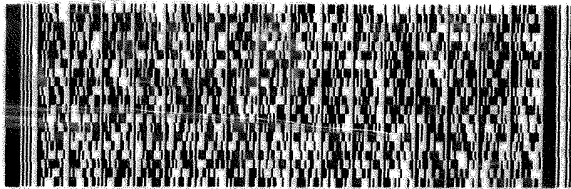
TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.



577C1ACRF/4834

UNIVERSITY PARK IL 60484 500-224532 Waybi

(262) 202-6966 REF: DEPT:



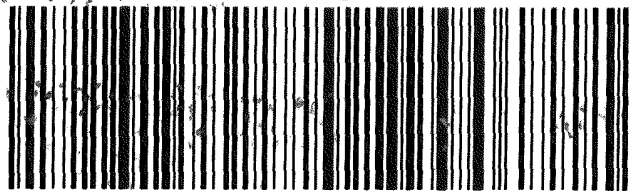
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1 of 7
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0201
MASTER

FRI - 28 OCT 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 51.20 LB
CAD 0269688/CAFE3616

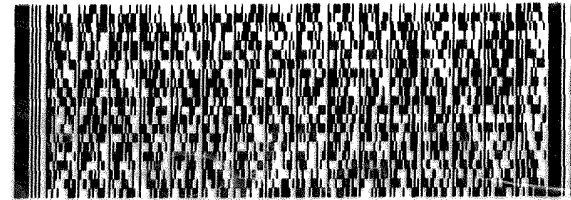
BILL RECIPIENT

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

577C1ACRF/4834

UNIVERSITY PARK IL 60484

(262) 202-6966 REF: DEPT:



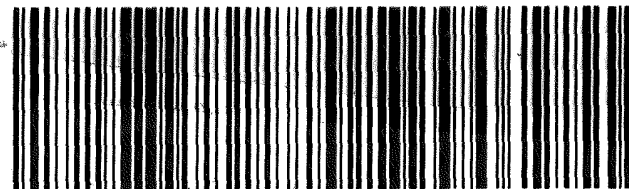
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FRI - 28 OCT 10:30A
PRIORITY OVERNIGHT

79 JOTA

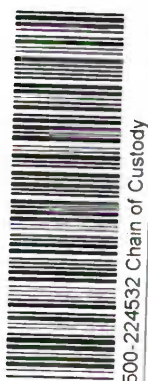
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IL-US ORD



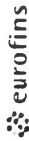
Chain of Custody Record



Client Information		Sampler: Parker Osborne		Lab PM: Fredrick, Sandie		Carrier Tracking No(s):		COC No: 500-87887-39456.1	
Client Contact: Paul Lindquist		Phone: 312-288-3902		E-Mail: sandra.fredrick@eurofinset.com		State of Origin: WI		Page: 1 of 2	
Company: Ramboll US Corporation		Address: 234 W Florida Street		City: Milwaukee		State: WI		Zip: 53204	
Phone: 262-901-3510(Tel)		TAT Requested (days): 5TD		Compliance Project: Δ Yes Δ No		PO #: 1890019647		WO #: 1890019647	
Email: plindquist@ramboll.com		Project #: 50018382		SSOW#: 50018382		Due Date Requested:		Analysis Requested	
Former: Mirro Plant No 9 - 1690019647		Site:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Matrix (Water, Solid, Other)		Sample Type (C=Comp, G=grab)		Sample Time		Sample Date		Matrix (Water, Solid, Other)	
MW-224		G		16:10		10/24/22		Water	
PZ-224		G		14:57		10/24/22		Water	
FB-02		G		16:30		10/24/22		Water	
FB-02		G		16:35		10/24/22		Water	
MW-223		G		13:55		10/25/22		Water	
MW-82		G		15:05		10/25/22		Water	
MW-213		G		16:25		10/25/22		Water	
FB-05		G		16:50		10/25/22		Water	
FB-05		G		16:55		10/25/22		Water	
MW-204		G		08:45		10/26/22		Water	
MW-201		G		10:22		10/26/22		Water	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date:		Time:		Method of Shipment:	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Time:		Special Instructions/QC Requirements:	
Relinquished by: <i>[Signature]</i>		Date/Time: 10/27/22 15:10		Company: Ramboll		Received by: <i>[Signature]</i>		Date/Time: 10/27/22 15:10	
Relinquished by: <i>[Signature]</i>		Date/Time: 10/27/22 17:00		Company: Gmbr		Received by: <i>[Signature]</i>		Date/Time: 10/28/22 9:35	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Yes Δ No		Custody Seal No.: 2051763 2051772		Cooler Temperature(s) °C and Other Remarks: 3/1 0.92		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	



Chain of Custody Record



Environment Testing
 America

Company Information Ramboll US Corporation 234 W Florida Street Milwaukee, WI 53204 Phone: 262-901-3510(Tel) Email: plindquist@ramboll.com Project Name: Former Mirro Plant No 9 - 1690019647 Site:		Lab PM Fredrick, Sandie E-Mail: sandra.fredrick@eurofinset.com		Carrier Tracking No(s): WI		IOC No: 500-87887-39456.1 Page: 2 of 2 Job #			
Due Date Requested: TAT Requested (days): 5 TO Compliance Project: Δ Yes Δ No PO #: 1690019647 W/O # Project #: 50018382 SSOW#:		Analysis Requested PFAS, Extended List (36 Analytes) - PFC_IDA_WI VOCs - 82608 6020A (Metals) PCBs - 8082A		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Special Instructions/Note:			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=leachate, A=air)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=leachate, A=air)	
MW-205	10/26/22	12:25	G	Water					
MW-208	10/26/22	13:35	G	Water					
MW-234	10/26/22	14:50	G	Water					
MW-99	10/26/22	15:50	G	Water					
FB-06	10/26/22	16:25	G	Water					
FB-06	10/26/22	16:30	G	Water					
MW-210	10/27/22	08:24	G	Water					
MW-48	10/27/22	09:34	G	Water					
MW-29	10/27/22	10:10	G	Water					
FB-10	10/27/22	10:40	G	Water					
FB-10	10/27/22	10:45	G	Water					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)								Special Instructions/QC Requirements:	
Empty Kit Relinquished by:								Method of Shipment:	
Relinquished by: [Signature]		Date: 10.27.22		Time: 1510		Company: Eurofins			
Relinquished by: [Signature]		Date: 10.27.22		Time: 1700		Company: Eurofins			
Relinquished by: [Signature]		Date: 10.27.22		Time: 1700		Company: Eurofins			
Custody Seals Intact: Yes Δ No		Custody Seal No.: 205763, 205177		Cooler Temperature(s) °C and Other Remarks: 9.9C		Date/Time: 10.27.22 1510 Date/Time: 10.28.22 935 Date/Time:			

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-224532-1

Login Number: 224532

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8.2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-224532-1

Login Number: 224532

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 10/29/22 03:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2051772
Sample custody seals, if present, are intact.	False	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing
TestAmerica

Sacramento
Sample Receiving Notes



500-224532 Field Sheet

Tracking #: 6058 8696 6380

SO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Job: _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: <u>L09</u> Corr. Factor: (+/-) _____ °C	Notes: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____																				
Ice _____ Wet _____ Gel _____ Other _____																					
Cooler Custody Seal: <u>2051772</u>																					
Cooler ID: <u>4045</u>																					
Temp Observed: <u>0.9</u> °C Corrected: <u>0.9</u> °C From: Temp Blank <input type="checkbox"/> Sample <input checked="" type="checkbox"/>																					
Opening/Processing The Shipment		Yes No NA																			
Cooler compromised/tampered with?		<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>																			
Cooler Temperature is acceptable?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																			
Frozen samples show signs of thaw?		<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>																			
Initials: <u>JF</u> Date: <u>10/28/22</u>																					
Unpacking/Labeling The Samples		Yes No NA																			
COC is complete w/o discrepancies?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																			
Samples compromised/tampered with?		<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>																			
Containers are not broken or leaking?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																			
Sample custody seal?		<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>																			
Sample containers have legible labels?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																				
Sample date/times are provided?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																				
Appropriate containers are used?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																				
Sample bottles are completely filled?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																				
Sample preservatives verified?	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>																				
Is the Field Sampler's name on COC?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																				
Samples require splitting/compositing?	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>																				
Samples w/o discrepancies?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																				
Zero headspace?*	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>																				
Alkalinity has no headspace?	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>																				
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>																				
Multiphasic samples are not present?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																				
*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")																					
Initials: <u>SO</u> Date: <u>10.29.22</u>	Trizma Lot #(s): _____ _____ _____																				
<table border="0"> <tr> <td>Login Completion</td> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td>Receipt Temperature on COC?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Samples received within hold time?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>NCM Filed?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Log Release checked in TALS?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>		Login Completion	Yes	No	NA	Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Login Completion	Yes	No	NA																		
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		
NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																		
Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																		



Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-224532-1	MW-224	62	86	94	102		103	99	94
500-224532-1 - DL	MW-224					84			
500-224532-2	PZ-224	73	87	90	99	95	84	88	81
500-224532-3	EB-02	94	96	93	99	101	87	93	91
500-224532-4	FB-02	90	94	91	97	92	80	84	87
500-224532-5	MW-223	67	94	103	103	99	101	108	101
500-224532-6	MW-82	57	87	110	110		92	117	115
500-224532-6 - DL	MW-82					90			
500-224532-7	MW-213	53	82	102	105		95	104	113
500-224532-7 - DL	MW-213					96			
500-224532-8	EB-05	115	119	117	110	95	97	123	122
500-224532-9	FB-05	105	107	104	101	97	90	108	105
500-224532-10	MW-204	85	97	96	102	102	93	110	111
500-224532-11	MW-201	80	103	106	107	91	98	114	112
500-224532-12	MW-205	73	94	102	108	103	99	116	110
500-224532-13	MW-208	84	101	99	87	88	95	115	115
500-224532-13 - DL	MW-208				111	88			
500-224532-14	MW-234	66	87	95	95	76	89	104	100
500-224532-14 - DL	MW-234					85			
500-224532-15	MW-99	86	101	98	99	94	95	113	104
500-224532-16	EB-06	101	106	99	96	96	92	111	110
500-224532-17	FB-06	112	107	106	97	97	98	114	107
500-224532-18	MW-210	69	85	95	96	95	107	107	95
500-224532-18 - DL	MW-210					89			
500-224532-19	MW-48	71	88	95	98	93	98	101	82
500-224532-19 - DL	MW-48					96			
500-224532-20	MW-29	61	77	91	96	99	104	104	98
500-224532-21	EB-10	97	97	95	100	101	97	101	98
500-224532-22	FB-10	93	91	90	91	94	97	98	86
LCS 320-628954/2-A	Lab Control Sample	103	103	102	102	104	105	105	99
LCS 320-628960/2-A	Lab Control Sample	93	93	94	92	95	84	90	89
LCSD 320-628954/3-A	Lab Control Sample Dup	99	96	91	94	93	99	103	87
LCSD 320-628960/3-A	Lab Control Sample Dup	98	97	98	101	95	85	93	86
MB 320-628954/1-A	Method Blank	100	98	96	98	104	102	102	99
MB 320-628960/1-A	Method Blank	91	92	91	92	97	96	118	86

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-224532-1	MW-224	102	95	109	106	99	99	77	88
500-224532-1 - DL	MW-224								
500-224532-2	PZ-224	84	75	90	93	80	89	63	71
500-224532-3	EB-02	94	88	100	97	86	92	71	81
500-224532-4	FB-02	91	80	98	90	82	87	71	84
500-224532-5	MW-223	107	92	119	105	98	110	82	95
500-224532-6	MW-82	120	101	121	122	93	119	92	109
500-224532-6 - DL	MW-82								
500-224532-7	MW-213	116	99	120	116	96	102	84	101
500-224532-7 - DL	MW-213								
500-224532-8	EB-05	116	100	118	107	96	111	97	105

Eurofins Chicago

Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFD _o A (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFH _x S (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-224532-9	FB-05	99	93	109	103	89	106	86	95
500-224532-10	MW-204	104	86	111	101	87	108	89	96
500-224532-11	MW-201	106	91	116	110	90	110	87	96
500-224532-12	MW-205	102	94	105	106	89	112	85	98
500-224532-13	MW-208	106	95	112	100	94	116	87	98
500-224532-13 - DL	MW-208								
500-224532-14	MW-234	96	89	103	90	83	105	81	91
500-224532-14 - DL	MW-234								
500-224532-15	MW-99	98	84	113	99	89	111	86	95
500-224532-16	EB-06	108	90	108	96	91	108	88	101
500-224532-17	FB-06	109	90	116	98	93	112	86	96
500-224532-18	MW-210	97	90	109	105	103	114	77	87
500-224532-18 - DL	MW-210								
500-224532-19	MW-48	74	65	99	98	90	112	70	72
500-224532-19 - DL	MW-48								
500-224532-20	MW-29	92	88	97	94	94	110	75	82
500-224532-21	EB-10	107	93	106	97	99	102	71	89
500-224532-22	FB-10	90	84	100	93	93	97	71	79
LCS 320-628954/2-A	Lab Control Sample	104	90	108	104	101	102	85	90
LCS 320-628960/2-A	Lab Control Sample	86	80	106	95	79	84	71	73
LCSD 320-628954/3-A	Lab Control Sample Dup	92	87	106	98	103	101	74	80
LCSD 320-628960/3-A	Lab Control Sample Dup	94	84	106	100	83	94	73	82
MB 320-628954/1-A	Method Blank	97	91	108	99	99	102	76	85
MB 320-628960/1-A	Method Blank	92	75	101	92	91	112	66	78

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-224532-1	MW-224	86	87	90	92	110	111	99	86
500-224532-1 - DL	MW-224								
500-224532-2	PZ-224	66	68	70	72	97	95	77	83
500-224532-3	EB-02	77	79	86	87	95	92	88	96
500-224532-4	FB-02	72	75	80	81	92	92	81	95
500-224532-5	MW-223	90	86	90	92	116	100	102	97
500-224532-6	MW-82	105	98	104	103	138	115	135	103
500-224532-6 - DL	MW-82								
500-224532-7	MW-213	94	96	100	107	128	148	145	96
500-224532-7 - DL	MW-213								
500-224532-8	EB-05	90	91	99	101	115	107	110	119
500-224532-9	FB-05	87	84	94	94	105	82	95	100
500-224532-10	MW-204	85	84	92	89	129	102	120	105
500-224532-11	MW-201	80	81	92	91	127	108	113	99
500-224532-12	MW-205	87	85	94	95	129	105	105	95
500-224532-13	MW-208	88	86	92	93	124	95	116	101
500-224532-13 - DL	MW-208								
500-224532-14	MW-234	75	75	84	86	104	82	101	83
500-224532-14 - DL	MW-234								
500-224532-15	MW-99	81	77	86	85	120	102	112	102
500-224532-16	EB-06	87	86	94	94	106	90	115	92
500-224532-17	FB-06	93	91	99	99	116	95	110	100
500-224532-18	MW-210	81	87	82	89	133	108	104	84

Eurofins Chicago

Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-224532-18 - DL	MW-210								
500-224532-19	MW-48	58	57	62	63	113	93	95	78
500-224532-19 - DL	MW-48								
500-224532-20	MW-29	76	79	79	88	115	115	107	82
500-224532-21	EB-10	72	78	88	95	85	90	97	91
500-224532-22	FB-10	60	67	82	88	81	77	80	82
LCS 320-628954/2-A	Lab Control Sample	58	65	81	91	88	81	85	91
LCS 320-628960/2-A	Lab Control Sample	71	75	81	84	89	87	89	86
LCSD 320-628954/3-A	Lab Control Sample Dup	69	73	81	86	88	88	83	90
LCSD 320-628960/3-A	Lab Control Sample Dup	73	78	83	85	94	90	83	91
MB 320-628954/1-A	Method Blank	68	75	87	91	91	82	80	89
MB 320-628960/1-A	Method Blank	68	71	83	85	87	87	95	88

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)
		M102FTS (25-150)
500-224532-1	MW-224	98
500-224532-1 - DL	MW-224	
500-224532-2	PZ-224	75
500-224532-3	EB-02	92
500-224532-4	FB-02	89
500-224532-5	MW-223	108
500-224532-6	MW-82	140
500-224532-6 - DL	MW-82	
500-224532-7	MW-213	138
500-224532-7 - DL	MW-213	
500-224532-8	EB-05	124
500-224532-9	FB-05	103
500-224532-10	MW-204	101
500-224532-11	MW-201	110
500-224532-12	MW-205	99
500-224532-13	MW-208	106
500-224532-13 - DL	MW-208	
500-224532-14	MW-234	102
500-224532-14 - DL	MW-234	
500-224532-15	MW-99	96
500-224532-16	EB-06	135
500-224532-17	FB-06	102
500-224532-18	MW-210	84
500-224532-18 - DL	MW-210	
500-224532-19	MW-48	71
500-224532-19 - DL	MW-48	
500-224532-20	MW-29	101
500-224532-21	EB-10	120
500-224532-22	FB-10	80
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LCS 320-628960/2-A	Lab Control Sample	84
LCSD 320-628954/3-A	Lab Control Sample Dup	85
LCSD 320-628960/3-A	Lab Control Sample Dup	85
MB 320-628954/1-A	Method Blank	80
MB 320-628960/1-A	Method Blank	84

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Isotope Dilution Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224532-1

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

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ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Lindquist
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Generated 12/6/2022 7:59:15 AM

JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-224562-1

Eurofins Chicago

Job Notes

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Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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

Authorization



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Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



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Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Job ID: 500-224562-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-224562-1

Comments

No additional comments.

Receipt

The samples were received on 10/28/2022 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 0.9° C, 1.6° C, 1.9° C, 2.7° C, 3.1° C, 3.3° C and 4.8° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: AECOM MW-18 (500-224562-1), AECOM MW-19 (500-224562-2), MW-17 (500-224562-3), FB-01 (500-224562-4), EB-01 (500-224562-5), MW-19 (500-224562-6), MW-19 (500-224562-6[MSJ]), MW-19 (500-224562-6[MSD]), MW-19 DUP (500-224562-7), MW-37 (500-224562-8), MW-233 (500-224562-9), MW-67 (500-224562-10), PZ-206 (500-224562-11), MW-60 (500-224562-12), MW-6 (500-224562-13), EB-03 (500-224562-14), FB-03 (500-224562-15), PZ-200 (500-224562-16), MW-200 (500-224562-17), MW-5 (500-224562-18), MW-220 (500-224562-19), MW-16 (500-224562-20), MW-15 (500-224562-21), MW-3 (500-224562-22), MW-8 (500-224562-23), MW-7 (500-224562-24), PZ-214 (500-224562-25), MW-31 (500-224562-26), MW-209 (500-224562-27), MW-209 DUP (500-224562-28), EB-08 (500-224562-29), FB-08 (500-224562-30), MW-221 (500-224562-31), MW-12 (500-224562-32), MW-12 DUP (500-224562-33), MW-9 (500-224562-34), EB-09 (500-224562-35), FB-09 (500-224562-36), TRIP BLANK 2 (500-224562-37) and TRIP BLANK 3 (500-224562-38). Didn't received samples Trip Blank 4-7

GC/MS VOA

Methods 624, 624.1, 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-5 (500-224562-18) and MW-15 (500-224562-21). Elevated reporting limits (RLs) are provided.

Method 8260B: Methylene chloride was detected in the following items: AECOM MW-19 (500-224562-2), MW-17 (500-224562-3), EB-01 (500-224562-5), MW-19 (500-224562-6), MW-19 DUP (500-224562-7), MW-37 (500-224562-8), EB-03 (500-224562-14), MW-16 (500-224562-20), MW-15 (500-224562-21), MW-3 (500-224562-22), MW-8 (500-224562-23), MW-31 (500-224562-26), MW-209 (500-224562-27), MW-209 DUP (500-224562-28), EB-08 (500-224562-29), MW-9 (500-224562-34) and EB-09 (500-224562-35). Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

Method 8260B: The method blank for analytical batch 500-683234 contained analytes above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.(MB 500-683234/6)

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

GC Semi VOA

Method 8082A: Surrogate recovery for the following sample was outside control limits: MW-19 (500-224562-6[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1260 for the following sample: MW-37 (500-224562-8). The higher value(s) has been reported and qualified due to CCVIS failure on the primary column.

Method 8082A: The continuing calibration verification (CCV) associated with batch 500-683527 recovered below the upper control limit for PCB-1260 and DCB Decachlorobiphenyl on the primary column. The secondary column was acceptable for all analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 500-683527/3).

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

Metals

Method 6020A: The following samples were diluted due to the nature of the sample matrix: MW-12 (500-224562-32) and MW-12 DUP

Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Job ID: 500-224562-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

(500-224562-33) at 10X.

Method 6020A: The continuing calibration verification (CCV) at line 108 associated with batch 500-687308 recovered above the upper control limit for Lead. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

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

LCMS

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte.

PZ-200 (500-224562-16) and MW-200 (500-224562-17)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: MW-6 (500-224562-13) and MW-31 (500-224562-26). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Due to the high concentration of Perfluorooctanoic acid (PFOA), the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-628958 and analytical batch 320-631830 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 537 (modified): Results for samples AECOM MW-18 (500-224562-1), MW-19 (500-224562-6), MW-19 (500-224562-6[MS]), MW-19 (500-224562-6[MSD]), MW-19 DUP (500-224562-7), MW-6 (500-224562-13), MW-5 (500-224562-18), MW-8 (500-224562-23) and MW-7 (500-224562-24) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: MW-8 (500-224562-23) and MW-7 (500-224562-24). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Results for sample MW-31 (500-224562-26) were reported from the analysis of a diluted extract due to high concentration. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): Results for samples AECOM MW-19 (500-224562-2), MW-17 (500-224562-3) and MW-31 (500-224562-26) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Internal standard (ISTD) response for the following sample was outside acceptance criteria: MW-9 (500-224562-34). This sample was re-analyzed at dilution with improved ISTD response; however, the target analyte results did not differ from the original analysis. Therefore, results were reported from the dilution analysis. The ISTD is not used to quantitate target analytes; therefore, there is no impact to the data.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: MW-9 (500-224562-34). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: MW-9 (500-224562-34). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater

Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Job ID: 500-224562-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

than 10:1, which is achieved for all IDA in the sample(s).

Method 537 (modified): Results for samples MW-37 (500-224562-8) and MW-3 (500-224562-22) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: MW-37 (500-224562-8). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: MW-12 DUP (500-224562-33). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

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

Field Service / Mobile Lab

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-628962.

Method:3535_PFC_28D

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628962 were light brown in color prior to extraction.. MW-5 (500-224562-18), MW-15 (500-224562-21), MW-7 (500-224562-24) and MW-31 (500-224562-26)

Method:3535_PFC_28D

Matrix: Aqueous

Method 3535: Due to the excess amount of particulates, the following sample was centrifuged and decanted into new 250 mL container: MW-15 (500-224562-21). After centrifuging and decanting, the sample was fortified with IDA and then extracted. 320-628962

Method:3535_PFC_28D

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628962 were observed to have floating particulates present in the sample bottle. MW-5 (500-224562-18), MW-15 (500-224562-21) and MW-31 (500-224562-26)

Method:3535_PFC_28D

Matrix: Aqueous

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-628963.

Method:3535_PFC_28D

Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628963 were brown in color prior to extraction. MW-9 (500-224562-34)

Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Job ID: 500-224562-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method:3535_PFC_28D
Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628963 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. MW-9 (500-224562-34)

Method:3535_PFC_28D
Matrix: Aqueous

Method 3535: Due to the excess amount of sediments, the following sample was centrifuged and decanted into new 250 mL container: MW-9 (500-224562-34). After centrifuging and decanting, the samples were fortified with IDA and then extracted. 320-628963

Method:3535_PFC_28D
Matrix: Aqueous

Method 3535: The following samples were foamy prior to the solid-phase extraction: MW-221 (500-224562-31) and MW-9 (500-224562-34). The foam stabilized wafter a few minutes.320-628963

Method:3535_PFC_28D
Matrix: Aqueous

Method 3535: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: MW-221 (500-224562-31) and MW-9 (500-224562-34). A 5x dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.320-628963

Method:3535_PFC_28D
Matrix: Aqueous

Method 3535: The following samples were foamy prior to the solid-phase extraction: MW-5 (500-224562-18) and MW-15 (500-224562-21). The foam stabilized after a few minutes. 320-628962

Method:3535_PFC_28D
Matrix: Aqueous

Method 3535: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: MW-5 (500-224562-18) and MW-15 (500-224562-21). A 5x dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.320-628962

Method:3535_PFC_28D
Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-628958 were observed to have floating particulates present in the sample bottle. AECOM MW-18 (500-224562-1) and MW-17 (500-224562-3)

Method: 3535_PFC_28D
Matrix: Aqueous



Case Narrative

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Job ID: 500-224562-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 3535: The following sample was light yellow in color and foamy prior to the solid-phase extraction: MW-6 (500-224562-13). The foam stabilized within 1 minute.

preparation batch 320-628958
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: During the solid phase extraction process, the following samples contained non-settable particulates which clogged the solid phase extraction column: MW-6 (500-224562-13).

preparation batch 320-628958
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: FB-09 (500-224562-36).320-628963

Method:3535_PFC_28D
Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-636130 were brown prior to extraction. MW-12 (500-224562-32) and MW-12 DUP (500-224562-33)

3535 PFC
Water
preparation batch 320-636130

Method 3535: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: MW-12 (500-224562-32) and MW-12 DUP (500-224562-33). A 100x (2.5 mL) dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.

3535 PFC
Water
preparation batch 320-636130

Method 3535: The following samples were re-prepared outside of preparation holding time due to low % recovery for PFBA. MW-12 (500-224562-32) and MW-12 DUP (500-224562-33).

3535 PFC
Water
preparation batch 320-636130

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-636130.

3535 PFC
Water
preparation batch 320-636130

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

Detection Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: AECOM MW-18

Lab Sample ID: 500-224562-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	19		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	49		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.76	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	950		9.7	4.1	ng/L	5		537 (modified)	Total/NA

Client Sample ID: AECOM MW-19

Lab Sample ID: 500-224562-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	0.72	J	1.0	0.39	ug/L	1		8260B	Total/NA
Methylene Chloride	1.6	J	5.0	1.6	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.70	J B	1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.67	J B	1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	0.80	J B	1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.69	J B	1.0	0.40	ug/L	1		8260B	Total/NA
Styrene	0.80	J	1.0	0.39	ug/L	1		8260B	Total/NA
tert-Butylbenzene	0.69	J	1.0	0.40	ug/L	1		8260B	Total/NA
Trichloroethene	1.2		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.79	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.83	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Perfluorohexanoic acid (PFHxA)	23		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	110		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.6		1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.0		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	10		1.9	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	4700		38	16	ng/L	20		537 (modified)	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 500-224562-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.60	J	2.0	0.37	ug/L	1		8260B	Total/NA
Methylene Chloride	1.8	J	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	9.5		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.75	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	8.4		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	9.9		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	66		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.5		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.4		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	4300		37	16	ng/L	20		537 (modified)	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 500-224562-4

No Detections.

Client Sample ID: EB-01

Lab Sample ID: 500-224562-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.9	J	5.0	1.6	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.65	J B	1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.63	J B	1.0	0.41	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.75	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.79	J B	1.0	0.25	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-19

Lab Sample ID: 500-224562-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	6.5		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.72	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	4.5	J	4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	9.7		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	51		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.3	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.8		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.7		1.9	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1200		9.5	4.0	ng/L	5		537 (modified)	Total/NA
Chromium	130		5.0	1.1	ug/L	1		6020A	Dissolved

Client Sample ID: MW-19 DUP

Lab Sample ID: 500-224562-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.64	J B	1.0	0.39	ug/L	1		8260B	Total/NA
Trichloroethene	6.8		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.72	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	6.0		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.9		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	54		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.3	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.7		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.3		1.9	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1200		9.6	4.1	ng/L	5		537 (modified)	Total/NA
Chromium	140		5.0	1.1	ug/L	1		6020A	Dissolved

Client Sample ID: MW-37

Lab Sample ID: 500-224562-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	6.5		1.0	0.33	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	1.6		1.0	0.40	ug/L	1		8260B	Total/NA
Methylene Chloride	1.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	25		1.0	0.46	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	59		1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	15		0.50	0.16	ug/L	1		8260B	Total/NA
PCB-1260	3.4		1.7	0.30	ug/L	5		8082A	Total/NA
Perfluorobutanoic acid (PFBA)	14		4.9	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.3		2.0	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	19		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	110		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.5		2.0	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.7		2.0	0.56	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.9		2.0	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	4400		39	17	ng/L	20		537 (modified)	Total/NA

Client Sample ID: MW-233

Lab Sample ID: 500-224562-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.8	J	4.7	2.3	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-233 (Continued)

Lab Sample ID: 500-224562-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.88	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.9		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	130		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.52	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.2		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-67

Lab Sample ID: 500-224562-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	10		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.2		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	11		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	220		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.99	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.2		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.62	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	20		1.9	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: PZ-206

Lab Sample ID: 500-224562-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.94	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.51	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.3		1.9	0.79	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-60

Lab Sample ID: 500-224562-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	10		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.97	J	2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.7	J	2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	39		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.72	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.63	J	2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.80	J	2.0	0.54	ng/L	1		537 (modified)	Total/NA
Aluminum	52	J	100	25	ug/L	1		6020A	Dissolved

Client Sample ID: MW-6

Lab Sample ID: 500-224562-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	75		9.6	1.2	ng/L	5		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1300		9.6	4.1	ng/L	5		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.4	J	9.6	2.6	ng/L	5		537 (modified)	Total/NA
Aluminum	150		100	25	ug/L	1		6020A	Dissolved
Lead	0.38	J ^+	0.50	0.19	ug/L	1		6020A	Dissolved

Client Sample ID: EB-03

Lab Sample ID: 500-224562-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.1	J	5.0	1.6	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	0.62	J	1.0	0.34	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-03 (Continued)

Lab Sample ID: 500-224562-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.72	J B	1.0	0.36	ug/L	1		8260B	Total/NA

Client Sample ID: FB-03

Lab Sample ID: 500-224562-15

No Detections.

Client Sample ID: PZ-200

Lab Sample ID: 500-224562-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.94	J	1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	6.9		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.57	J I	1.8	0.25	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-200

Lab Sample ID: 500-224562-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.1		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.5		1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	7.8		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.8		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	110		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	22		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.56	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.3	I	1.9	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 500-224562-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4		0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	31		0.50	0.18	ug/L	1		8260B	Total/NA
Isopropylbenzene	55		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	130	B	1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	82		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	18		1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	14		1.0	0.40	ug/L	1		8260B	Total/NA
tert-Butylbenzene	2.7		1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	2.6		0.50	0.15	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	83		1.0	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	390	B	5.0	1.8	ug/L	5		8260B	Total/NA
Perfluorohexanoic acid (PFHxA)	26		10	2.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	110		10	1.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	6300		50	21	ng/L	5		537 (modified)	Total/NA

Client Sample ID: MW-220

Lab Sample ID: 500-224562-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.4	J	4.9	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.7		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	140		2.0	0.83	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-16

Lab Sample ID: 500-224562-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.9	J	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	1.1		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.76	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	14		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	7.1		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.3		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	170		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.43	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.6	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.0		1.9	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 500-224562-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	59		2.5	0.92	ug/L	5		8260B	Total/NA
Isopropylbenzene	48		5.0	1.9	ug/L	5		8260B	Total/NA
Naphthalene	200		5.0	1.7	ug/L	5		8260B	Total/NA
n-Butylbenzene	53	B	5.0	1.9	ug/L	5		8260B	Total/NA
N-Propylbenzene	62	B	5.0	2.1	ug/L	5		8260B	Total/NA
p-Isopropyltoluene	50	B	5.0	1.8	ug/L	5		8260B	Total/NA
sec-Butylbenzene	25	B	5.0	2.0	ug/L	5		8260B	Total/NA
tert-Butylbenzene	11		5.0	2.0	ug/L	5		8260B	Total/NA
Toluene	0.98	J	2.5	0.76	ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	460	B	5.0	1.3	ug/L	5		8260B	Total/NA
Xylenes, Total	580		5.0	1.1	ug/L	5		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	1500	B	50	18	ug/L	50		8260B	Total/NA
Perfluorohexanoic acid (PFHxA)	47		10	2.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	180		10	1.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	3200		50	21	ng/L	5		537 (modified)	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 500-224562-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.49	J	1.0	0.41	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.64	J B	1.0	0.39	ug/L	1		8260B	Total/NA
Trichloroethene	5.6		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.93	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.83	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	38		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.1		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	39		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	110		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.2		1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	4100		37	16	ng/L	20		537 (modified)	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 500-224562-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	0.75	J	1.0	0.34	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-8 (Continued)

Lab Sample ID: 500-224562-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.96	J	1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	1.7		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.83	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.79	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Perfluoroheptanoic acid (PFHpA)	12		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.2		1.9	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	700		9.4	4.0	ng/L	5		537 (modified)	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 500-224562-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	11		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	44		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.6	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.95	J	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.8		1.8	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	2500		18	7.8	ng/L	10		537 (modified)	Total/NA

Client Sample ID: PZ-214

Lab Sample ID: 500-224562-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	2.0		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	39		1.8	0.78	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-31

Lab Sample ID: 500-224562-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.65	J B	1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.62	J B	1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	0.94	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Trichloroethene	3.4		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.86	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.83	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Perfluoroheptanoic acid (PFHpA)	75		9.3	1.2	ng/L	5		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	3500		19	7.9	ng/L	10		537 (modified)	Total/NA

Client Sample ID: MW-209

Lab Sample ID: 500-224562-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.6	J	5.0	1.6	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.62	J B	1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	1.9		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.88	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.82	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	9.7		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.8		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.1		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.7		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	78		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.56	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.5		1.9	0.53	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-209 (Continued)

Lab Sample ID: 500-224562-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	16		1.9	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-209 DUP

Lab Sample ID: 500-224562-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	1.9		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.84	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.81	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	10		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.2		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.0		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.6		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	79		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.62	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.3		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.7		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	17		1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EB-08

Lab Sample ID: 500-224562-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.0	J	5.0	1.6	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.75	J B	1.0	0.36	ug/L	1		8260B	Total/NA

Client Sample ID: FB-08

Lab Sample ID: 500-224562-30

No Detections.

Client Sample ID: MW-221

Lab Sample ID: 500-224562-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	54		10	2.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	310		10	1.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1200		10	4.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.7	J	10	2.7	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 500-224562-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	19000	H	500	240	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	150	J H	200	25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7100	H	200	85	ng/L	1		537 (modified)	Total/NA
Arsenic	16		10	2.3	ug/L	10		6020A	Dissolved
Chromium	150		50	11	ug/L	10		6020A	Dissolved

Client Sample ID: MW-12 DUP

Lab Sample ID: 500-224562-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	370	H	200	25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7900	H	200	85	ng/L	1		537 (modified)	Total/NA
Arsenic	14		10	2.3	ug/L	10		6020A	Dissolved
Chromium	150		50	11	ug/L	10		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-9

Lab Sample ID: 500-224562-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	0.82	J	1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.63	J B	1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	0.78	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Toluene	0.44	J	0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	11		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.86	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.92	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	0.90	J	1.0	0.22	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	4500		250	120	ng/L	10		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1600		100	25	ng/L	10		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2800		100	43	ng/L	10		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	39	J	100	29	ng/L	10		537 (modified)	Total/NA

Client Sample ID: EB-09

Lab Sample ID: 500-224562-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
Toluene	1.3		0.50	0.15	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.74	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Xylenes, Total	0.49	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: FB-09

Lab Sample ID: 500-224562-36

No Detections.

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 500-224562-37

No Detections.

Client Sample ID: TRIP BLANK 3

Lab Sample ID: 500-224562-38

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
6020A	Metals (ICP/MS)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-224562-1	AECOM MW-18	Water	10/24/22 14:15	10/28/22 10:10
500-224562-2	AECOM MW-19	Water	10/24/22 15:15	10/28/22 10:10
500-224562-3	MW-17	Water	10/24/22 16:10	10/28/22 10:10
500-224562-4	FB-01	Water	10/24/22 16:45	10/28/22 10:10
500-224562-5	EB-01	Water	10/24/22 16:50	10/28/22 10:10
500-224562-6	MW-19	Water	10/25/22 08:10	10/28/22 10:10
500-224562-7	MW-19 DUP	Water	10/25/22 08:10	10/28/22 10:10
500-224562-8	MW-37	Water	10/25/22 09:30	10/28/22 10:10
500-224562-9	MW-233	Water	10/25/22 11:15	10/28/22 10:10
500-224562-10	MW-67	Water	10/25/22 12:35	10/28/22 10:10
500-224562-11	PZ-206	Water	10/25/22 13:35	10/28/22 10:10
500-224562-12	MW-60	Water	10/25/22 15:50	10/28/22 10:10
500-224562-13	MW-6	Water	10/25/22 14:40	10/28/22 10:10
500-224562-14	EB-03	Water	10/25/22 16:50	10/28/22 10:10
500-224562-15	FB-03	Water	10/25/22 16:55	10/28/22 10:10
500-224562-16	PZ-200	Water	10/26/22 07:40	10/28/22 10:10
500-224562-17	MW-200	Water	10/26/22 08:20	10/28/22 10:10
500-224562-18	MW-5	Water	10/26/22 08:45	10/28/22 10:10
500-224562-19	MW-220	Water	10/26/22 09:30	10/28/22 10:10
500-224562-20	MW-16	Water	10/26/22 10:30	10/28/22 10:10
500-224562-21	MW-15	Water	10/26/22 11:10	10/28/22 10:10
500-224562-22	MW-3	Water	10/26/22 11:55	10/28/22 10:10
500-224562-23	MW-8	Water	10/26/22 12:40	10/28/22 10:10
500-224562-24	MW-7	Water	10/26/22 13:30	10/28/22 10:10
500-224562-25	PZ-214	Water	10/26/22 14:30	10/28/22 10:10
500-224562-26	MW-31	Water	10/26/22 15:35	10/28/22 10:10
500-224562-27	MW-209	Water	10/26/22 16:30	10/28/22 10:10
500-224562-28	MW-209 DUP	Water	10/26/22 16:30	10/28/22 10:10
500-224562-29	EB-08	Water	10/26/22 16:50	10/28/22 10:10
500-224562-30	FB-08	Water	10/26/22 16:55	10/28/22 10:10
500-224562-31	MW-221	Water	10/27/22 08:15	10/28/22 10:10
500-224562-32	MW-12	Water	10/27/22 09:15	10/28/22 10:10
500-224562-33	MW-12 DUP	Water	10/27/22 09:15	10/28/22 10:10
500-224562-34	MW-9	Water	10/27/22 10:20	10/28/22 10:10
500-224562-35	EB-09	Water	10/27/22 10:45	10/28/22 10:10
500-224562-36	FB-09	Water	10/27/22 10:55	10/28/22 10:10
500-224562-37	TRIP BLANK 2	Water	10/27/22 00:00	10/28/22 10:10
500-224562-38	TRIP BLANK 3	Water	10/27/22 00:00	10/28/22 10:10

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: AECOM MW-18

Lab Sample ID: 500-224562-1

Date Collected: 10/24/22 14:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorohexanoic acid (PFHxA)	19		1.9	0.56	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluoroheptanoic acid (PFHpA)	49		1.9	0.24	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.76 J		1.9	0.55	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		10/31/22 04:40	11/06/22 06:51	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		10/31/22 04:40	11/06/22 06:51	1
NEtFOSA	<0.84		1.9	0.84	ng/L		10/31/22 04:40	11/06/22 06:51	1
NMeFOSA	<0.42		1.9	0.42	ng/L		10/31/22 04:40	11/06/22 06:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:40	11/06/22 06:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.8	1.3	ng/L		10/31/22 04:40	11/06/22 06:51	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/31/22 04:40	11/06/22 06:51	1
NEtFOSE	<0.82		1.9	0.82	ng/L		10/31/22 04:40	11/06/22 06:51	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 06:51	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:40	11/06/22 06:51	1
8:2 FTS	<0.45		1.9	0.45	ng/L		10/31/22 04:40	11/06/22 06:51	1
DONA	<0.39		1.9	0.39	ng/L		10/31/22 04:40	11/06/22 06:51	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/31/22 04:40	11/06/22 06:51	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 06:51	1
F-53B Minor	<0.31		1.9	0.31	ng/L		10/31/22 04:40	11/06/22 06:51	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	26		25 - 150				10/31/22 04:40	11/06/22 06:51	1
13C5 PFPeA	50		25 - 150				10/31/22 04:40	11/06/22 06:51	1
13C2 PFHxA	74		25 - 150				10/31/22 04:40	11/06/22 06:51	1
13C4 PFHpA	91		25 - 150				10/31/22 04:40	11/06/22 06:51	1
13C5 PFNA	101		25 - 150				10/31/22 04:40	11/06/22 06:51	1
13C2 PFDA	108		25 - 150				10/31/22 04:40	11/06/22 06:51	1
13C2 PFUnA	108		25 - 150				10/31/22 04:40	11/06/22 06:51	1
13C2 PFDoA	104		25 - 150				10/31/22 04:40	11/06/22 06:51	1
13C2 PFTeDA	102		25 - 150				10/31/22 04:40	11/06/22 06:51	1
13C3 PFBS	85		25 - 150				10/31/22 04:40	11/06/22 06:51	1
18O2 PFHxS	108		25 - 150				10/31/22 04:40	11/06/22 06:51	1
13C4 PFOS	107		25 - 150				10/31/22 04:40	11/06/22 06:51	1

Eurofins Chicago

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: AECOM MW-18

Lab Sample ID: 500-224562-1

Date Collected: 10/24/22 14:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 FOSA	116		10 - 150	10/31/22 04:40	11/06/22 06:51	1
d3-NMeFOSAA	101		25 - 150	10/31/22 04:40	11/06/22 06:51	1
d5-NEtFOSAA	103		25 - 150	10/31/22 04:40	11/06/22 06:51	1
d-N-MeFOSA-M	91		10 - 150	10/31/22 04:40	11/06/22 06:51	1
d-N-EtFOSA-M	89		10 - 150	10/31/22 04:40	11/06/22 06:51	1
d7-N-MeFOSE-M	92		10 - 150	10/31/22 04:40	11/06/22 06:51	1
d9-N-EtFOSE-M	93		10 - 150	10/31/22 04:40	11/06/22 06:51	1
M2-4:2 FTS	92		25 - 150	10/31/22 04:40	11/06/22 06:51	1
M2-6:2 FTS	108		25 - 150	10/31/22 04:40	11/06/22 06:51	1
M2-8:2 FTS	104		25 - 150	10/31/22 04:40	11/06/22 06:51	1
13C3 HFPO-DA	79		25 - 150	10/31/22 04:40	11/06/22 06:51	1
13C2 10:2 FTS	94		25 - 150	10/31/22 04:40	11/06/22 06:51	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorooctanoic acid (PFOA)	950		9.7	4.1	ng/L		10/31/22 04:40	11/10/22 01:48	5

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOA	95		25 - 150	10/31/22 04:40	11/10/22 01:48	5

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: AECOM MW-19

Lab Sample ID: 500-224562-2

Date Collected: 10/24/22 15:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 17:23	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 17:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 17:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 17:23	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 17:23	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 17:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 17:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 17:23	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 17:23	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 17:23	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 17:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 17:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 17:23	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 17:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 17:23	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 17:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 17:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 17:23	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 17:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 17:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 17:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 17:23	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 17:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 17:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 17:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 17:23	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 17:23	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 17:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 17:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 17:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 17:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 17:23	1
Isopropylbenzene	0.72 J		1.0	0.39	ug/L			11/04/22 17:23	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 17:23	1
Methylene Chloride	1.6 J		5.0	1.6	ug/L			11/04/22 17:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 17:23	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 17:23	1
n-Butylbenzene	0.70 J B		1.0	0.39	ug/L			11/04/22 17:23	1
N-Propylbenzene	0.67 J B		1.0	0.41	ug/L			11/04/22 17:23	1
p-Isopropyltoluene	0.80 J B		1.0	0.36	ug/L			11/04/22 17:23	1
sec-Butylbenzene	0.69 J B		1.0	0.40	ug/L			11/04/22 17:23	1
Styrene	0.80 J		1.0	0.39	ug/L			11/04/22 17:23	1
tert-Butylbenzene	0.69 J		1.0	0.40	ug/L			11/04/22 17:23	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 17:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 17:23	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 17:23	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 17:23	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 17:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 17:23	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: AECOM MW-19

Lab Sample ID: 500-224562-2

Date Collected: 10/24/22 15:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 17:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 17:23	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 17:23	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 17:23	1
Trichloroethene	1.2		0.50	0.16	ug/L			11/04/22 17:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 17:23	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 17:23	1
1,2,4-Trimethylbenzene	0.79	J B	1.0	0.36	ug/L			11/04/22 17:23	1
1,3,5-Trimethylbenzene	0.83	J B	1.0	0.25	ug/L			11/04/22 17:23	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 17:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124					11/04/22 17:23	1
Dibromofluoromethane (Surr)	92		75 - 120					11/04/22 17:23	1
1,2-Dichloroethane-d4 (Surr)	92		75 - 126					11/04/22 17:23	1
Toluene-d8 (Surr)	94		75 - 120					11/04/22 17:23	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorohexanoic acid (PFHxA)	23		1.9	0.55	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluoroheptanoic acid (PFHpA)	110		1.9	0.24	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorononanoic acid (PFNA)	2.6		1.9	0.26	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorohexanesulfonic acid (PFHxS)	4.0		1.9	0.54	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorooctanesulfonic acid (PFOS)	10		1.9	0.51	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/31/22 04:40	11/06/22 07:01	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		10/31/22 04:40	11/06/22 07:01	1
NEtFOSA	<0.83		1.9	0.83	ng/L		10/31/22 04:40	11/06/22 07:01	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:40	11/06/22 07:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		10/31/22 04:40	11/06/22 07:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:40	11/06/22 07:01	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:40	11/06/22 07:01	1
NEtFOSE	<0.81		1.9	0.81	ng/L		10/31/22 04:40	11/06/22 07:01	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 07:01	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: AECOM MW-19

Lab Sample ID: 500-224562-2

Date Collected: 10/24/22 15:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:40	11/06/22 07:01	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:40	11/06/22 07:01	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:40	11/06/22 07:01	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:40	11/06/22 07:01	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 07:01	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 07:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	45		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C2 PFHxA	72		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C4 PFHpA	90		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C5 PFNA	110		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C2 PFDA	126		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C2 PFUnA	129		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C2 PFDoA	126		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C2 PFTeDA	126		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C3 PFBS	81		25 - 150	10/31/22 04:40	11/06/22 07:01	1
18O2 PFHxS	119		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C4 PFOS	118		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C8 FOSA	117		10 - 150	10/31/22 04:40	11/06/22 07:01	1
d3-NMeFOSAA	108		25 - 150	10/31/22 04:40	11/06/22 07:01	1
d5-NEtFOSAA	121		25 - 150	10/31/22 04:40	11/06/22 07:01	1
d-N-MeFOSA-M	101		10 - 150	10/31/22 04:40	11/06/22 07:01	1
d-N-EtFOSA-M	102		10 - 150	10/31/22 04:40	11/06/22 07:01	1
d7-N-MeFOSE-M	108		10 - 150	10/31/22 04:40	11/06/22 07:01	1
d9-N-EtFOSE-M	104		10 - 150	10/31/22 04:40	11/06/22 07:01	1
M2-4:2 FTS	137		25 - 150	10/31/22 04:40	11/06/22 07:01	1
M2-6:2 FTS	135		25 - 150	10/31/22 04:40	11/06/22 07:01	1
M2-8:2 FTS	149		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C3 HFPO-DA	77		25 - 150	10/31/22 04:40	11/06/22 07:01	1
13C2 10:2 FTS	115		25 - 150	10/31/22 04:40	11/06/22 07:01	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<46		95	46	ng/L		10/31/22 04:40	11/11/22 09:43	20
Perfluorooctanoic acid (PFOA)	4700		38	16	ng/L		10/31/22 04:40	11/11/22 09:43	20
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	67		25 - 150	10/31/22 04:40	11/11/22 09:43	20			
13C4 PFOA	90		25 - 150	10/31/22 04:40	11/11/22 09:43	20			

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-17

Lab Sample ID: 500-224562-3

Date Collected: 10/24/22 16:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 17:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 17:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 17:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 17:49	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 17:49	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 17:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 17:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 17:49	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 17:49	1
Chloroform	0.60	J	2.0	0.37	ug/L			11/04/22 17:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 17:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 17:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 17:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 17:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 17:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 17:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 17:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 17:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 17:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 17:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 17:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 17:49	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 17:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 17:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 17:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 17:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 17:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 17:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 17:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 17:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 17:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 17:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 17:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 17:49	1
Methylene Chloride	1.8	J	5.0	1.6	ug/L			11/04/22 17:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 17:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 17:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 17:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 17:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 17:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 17:49	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 17:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 17:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 17:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 17:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 17:49	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 17:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 17:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 17:49	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-17

Lab Sample ID: 500-224562-3

Date Collected: 10/24/22 16:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 17:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 17:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 17:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 17:49	1
Trichloroethene	9.5		0.50	0.16	ug/L			11/04/22 17:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 17:49	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 17:49	1
1,2,4-Trimethylbenzene	0.75	J B	1.0	0.36	ug/L			11/04/22 17:49	1
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L			11/04/22 17:49	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 17:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124		11/04/22 17:49	1
Dibromofluoromethane (Surr)	95		75 - 120		11/04/22 17:49	1
1,2-Dichloroethane-d4 (Surr)	94		75 - 126		11/04/22 17:49	1
Toluene-d8 (Surr)	93		75 - 120		11/04/22 17:49	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	8.4		4.6	2.2	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorohexanoic acid (PFHxA)	9.9		1.9	0.54	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluoroheptanoic acid (PFHpA)	66		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorononanoic acid (PFNA)	2.5		1.9	0.25	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorohexanesulfonic acid (PFHxS)	3.4		1.9	0.53	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 04:40	11/06/22 07:11	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 04:40	11/06/22 07:11	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:40	11/06/22 07:11	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:40	11/06/22 07:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 04:40	11/06/22 07:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 04:40	11/06/22 07:11	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:40	11/06/22 07:11	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:40	11/06/22 07:11	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-17

Lab Sample ID: 500-224562-3

Date Collected: 10/24/22 16:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 04:40	11/06/22 07:11	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:40	11/06/22 07:11	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:40	11/06/22 07:11	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:40	11/06/22 07:11	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:40	11/06/22 07:11	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 07:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	54		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C5 PFPeA	72		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C2 PFHxA	90		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C4 PFHpA	102		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C5 PFNA	103		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C2 PFDA	109		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C2 PFUnA	109		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C2 PFDoA	105		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C2 PFTeDA	99		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C3 PFBS	99		25 - 150	10/31/22 04:40	11/06/22 07:11	1
18O2 PFHxS	114		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C4 PFOS	100		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C8 FOSA	111		10 - 150	10/31/22 04:40	11/06/22 07:11	1
d3-NMeFOSAA	102		25 - 150	10/31/22 04:40	11/06/22 07:11	1
d5-NEtFOSAA	108		25 - 150	10/31/22 04:40	11/06/22 07:11	1
d-N-MeFOSA-M	87		10 - 150	10/31/22 04:40	11/06/22 07:11	1
d-N-EtFOSA-M	82		10 - 150	10/31/22 04:40	11/06/22 07:11	1
d7-N-MeFOSE-M	89		10 - 150	10/31/22 04:40	11/06/22 07:11	1
d9-N-EtFOSE-M	85		10 - 150	10/31/22 04:40	11/06/22 07:11	1
M2-6:2 FTS	96		25 - 150	10/31/22 04:40	11/06/22 07:11	1
M2-8:2 FTS	134		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C3 HFPO-DA	89		25 - 150	10/31/22 04:40	11/06/22 07:11	1
13C2 10:2 FTS	117		25 - 150	10/31/22 04:40	11/06/22 07:11	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	4300		37	16	ng/L		10/31/22 04:40	11/11/22 09:53	20
4:2 FTS	<4.5		37	4.5	ng/L		10/31/22 04:40	11/11/22 09:53	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	86		25 - 150	10/31/22 04:40	11/11/22 09:53	20
M2-4:2 FTS	113		25 - 150	10/31/22 04:40	11/11/22 09:53	20

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: FB-01
Date Collected: 10/24/22 16:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-4
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		10/31/22 04:40	11/06/22 07:21	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		10/31/22 04:40	11/06/22 07:21	1
NETFOSA	<0.79		1.8	0.79	ng/L		10/31/22 04:40	11/06/22 07:21	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 04:40	11/06/22 07:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		10/31/22 04:40	11/06/22 07:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		10/31/22 04:40	11/06/22 07:21	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/31/22 04:40	11/06/22 07:21	1
NEtFOSE	<0.77		1.8	0.77	ng/L		10/31/22 04:40	11/06/22 07:21	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 04:40	11/06/22 07:21	1
6:2 FTS	<2.3		4.5	2.3	ng/L		10/31/22 04:40	11/06/22 07:21	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 04:40	11/06/22 07:21	1
DONA	<0.36		1.8	0.36	ng/L		10/31/22 04:40	11/06/22 07:21	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		10/31/22 04:40	11/06/22 07:21	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 04:40	11/06/22 07:21	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:40	11/06/22 07:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C5 PFPeA	98		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C2 PFHxA	103		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C4 PFHpA	105		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C4 PFOA	98		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C5 PFNA	98		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C2 PFDA	105		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C2 PFUnA	100		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C2 PFDoA	104		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C2 PFTeDA	105		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C3 PFBS	111		25 - 150	10/31/22 04:40	11/06/22 07:21	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: FB-01
Date Collected: 10/24/22 16:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-4
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	106		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C4 PFOS	97		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C8 FOSA	107		10 - 150	10/31/22 04:40	11/06/22 07:21	1
d3-NMeFOSAA	95		25 - 150	10/31/22 04:40	11/06/22 07:21	1
d5-NEtFOSAA	95		25 - 150	10/31/22 04:40	11/06/22 07:21	1
d-N-MeFOSA-M	82		10 - 150	10/31/22 04:40	11/06/22 07:21	1
d-N-EtFOSA-M	84		10 - 150	10/31/22 04:40	11/06/22 07:21	1
d7-N-MeFOSE-M	92		10 - 150	10/31/22 04:40	11/06/22 07:21	1
d9-N-EtFOSE-M	95		10 - 150	10/31/22 04:40	11/06/22 07:21	1
M2-4:2 FTS	89		25 - 150	10/31/22 04:40	11/06/22 07:21	1
M2-6:2 FTS	81		25 - 150	10/31/22 04:40	11/06/22 07:21	1
M2-8:2 FTS	84		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C3 HFPO-DA	94		25 - 150	10/31/22 04:40	11/06/22 07:21	1
13C2 10:2 FTS	82		25 - 150	10/31/22 04:40	11/06/22 07:21	1



Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-01
Date Collected: 10/24/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 18:16	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 18:16	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 18:16	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 18:16	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 18:16	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 18:16	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 18:16	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 18:16	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 18:16	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 18:16	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 18:16	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 18:16	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 18:16	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 18:16	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 18:16	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 18:16	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 18:16	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 18:16	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 18:16	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 18:16	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 18:16	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 18:16	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 18:16	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 18:16	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 18:16	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 18:16	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 18:16	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 18:16	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 18:16	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 18:16	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 18:16	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 18:16	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 18:16	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 18:16	1
Methylene Chloride	1.9 J		5.0	1.6	ug/L			11/04/22 18:16	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 18:16	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 18:16	1
n-Butylbenzene	0.65 J B		1.0	0.39	ug/L			11/04/22 18:16	1
N-Propylbenzene	0.63 J B		1.0	0.41	ug/L			11/04/22 18:16	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 18:16	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 18:16	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 18:16	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 18:16	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 18:16	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 18:16	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 18:16	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 18:16	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 18:16	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 18:16	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-01
Date Collected: 10/24/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 18:16	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 18:16	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 18:16	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 18:16	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/22 18:16	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 18:16	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 18:16	1
1,2,4-Trimethylbenzene	0.75	J B	1.0	0.36	ug/L			11/04/22 18:16	1
1,3,5-Trimethylbenzene	0.79	J B	1.0	0.25	ug/L			11/04/22 18:16	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 18:16	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		72 - 124		11/04/22 18:16	1
Dibromofluoromethane (Surr)	94		75 - 120		11/04/22 18:16	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 126		11/04/22 18:16	1
Toluene-d8 (Surr)	93		75 - 120		11/04/22 18:16	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		10/31/22 04:40	11/06/22 07:31	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		10/31/22 04:40	11/06/22 07:31	1
NEtFOSA	<0.79		1.8	0.79	ng/L		10/31/22 04:40	11/06/22 07:31	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 04:40	11/06/22 07:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		10/31/22 04:40	11/06/22 07:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		10/31/22 04:40	11/06/22 07:31	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/31/22 04:40	11/06/22 07:31	1
NEtFOSE	<0.77		1.8	0.77	ng/L		10/31/22 04:40	11/06/22 07:31	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-01
Date Collected: 10/24/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-5
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 04:40	11/06/22 07:31	1
6:2 FTS	<2.3		4.5	2.3	ng/L		10/31/22 04:40	11/06/22 07:31	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 04:40	11/06/22 07:31	1
DONA	<0.36		1.8	0.36	ng/L		10/31/22 04:40	11/06/22 07:31	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		10/31/22 04:40	11/06/22 07:31	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 04:40	11/06/22 07:31	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 04:40	11/06/22 07:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	102		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C5 PFPeA	99		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C2 PFHxA	104		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C4 PFHpA	100		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C4 PFOA	100		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C5 PFNA	92		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C2 PFDA	101		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C2 PFUnA	101		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C2 PFDoA	99		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C2 PFTeDA	102		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C3 PFBS	109		25 - 150				10/31/22 04:40	11/06/22 07:31	1
18O2 PFHxS	102		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C4 PFOS	94		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C8 FOSA	104		10 - 150				10/31/22 04:40	11/06/22 07:31	1
d3-NMeFOSAA	92		25 - 150				10/31/22 04:40	11/06/22 07:31	1
d5-NEtFOSAA	94		25 - 150				10/31/22 04:40	11/06/22 07:31	1
d-N-MeFOSA-M	86		10 - 150				10/31/22 04:40	11/06/22 07:31	1
d-N-EtFOSA-M	88		10 - 150				10/31/22 04:40	11/06/22 07:31	1
d7-N-MeFOSE-M	96		10 - 150				10/31/22 04:40	11/06/22 07:31	1
d9-N-EtFOSE-M	93		10 - 150				10/31/22 04:40	11/06/22 07:31	1
M2-4:2 FTS	83		25 - 150				10/31/22 04:40	11/06/22 07:31	1
M2-6:2 FTS	80		25 - 150				10/31/22 04:40	11/06/22 07:31	1
M2-8:2 FTS	79		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C3 HFPO-DA	90		25 - 150				10/31/22 04:40	11/06/22 07:31	1
13C2 10:2 FTS	84		25 - 150				10/31/22 04:40	11/06/22 07:31	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-19

Lab Sample ID: 500-224562-6

Date Collected: 10/25/22 08:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 18:42	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 18:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 18:42	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 18:42	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 18:42	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 18:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 18:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 18:42	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 18:42	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 18:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 18:42	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 18:42	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 18:42	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 18:42	1
cis-1,3-Dichloropropene	<0.42	F1	1.0	0.42	ug/L			11/04/22 18:42	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 18:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 18:42	1
1,2-Dibromoethane	<0.39	F1	1.0	0.39	ug/L			11/04/22 18:42	1
Dibromomethane	<0.27	F1	1.0	0.27	ug/L			11/04/22 18:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 18:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 18:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 18:42	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 18:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 18:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 18:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 18:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 18:42	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 18:42	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 18:42	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 18:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 18:42	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 18:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 18:42	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 18:42	1
Methylene Chloride	1.7 J		5.0	1.6	ug/L			11/04/22 18:42	1
Methyl tert-butyl ether	<0.39	F2	1.0	0.39	ug/L			11/04/22 18:42	1
Naphthalene	<0.34	F2	1.0	0.34	ug/L			11/04/22 18:42	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 18:42	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 18:42	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 18:42	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 18:42	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 18:42	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 18:42	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 18:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 18:42	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 18:42	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 18:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 18:42	1
trans-1,3-Dichloropropene	<0.36	F1 F2	1.0	0.36	ug/L			11/04/22 18:42	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-19

Lab Sample ID: 500-224562-6

Date Collected: 10/25/22 08:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46	F2	1.0	0.46	ug/L			11/04/22 18:42	1
1,2,4-Trichlorobenzene	<0.34	F2	1.0	0.34	ug/L			11/04/22 18:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 18:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 18:42	1
Trichloroethene	6.5		0.50	0.16	ug/L			11/04/22 18:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 18:42	1
1,2,3-Trichloropropane	<0.41	F2	2.0	0.41	ug/L			11/04/22 18:42	1
1,2,4-Trimethylbenzene	0.72	J B	1.0	0.36	ug/L			11/04/22 18:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/22 18:42	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 18:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124					11/04/22 18:42	1
Dibromofluoromethane (Surr)	95		75 - 120					11/04/22 18:42	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 126					11/04/22 18:42	1
Toluene-d8 (Surr)	93		75 - 120					11/04/22 18:42	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.060		0.36	0.060	ug/L		11/02/22 09:25	11/04/22 12:36	1
PCB-1221	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 12:36	1
PCB-1232	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 12:36	1
PCB-1242	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 12:36	1
PCB-1248	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 12:36	1
PCB-1254	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 12:36	1
PCB-1260	<0.062		0.36	0.062	ug/L		11/02/22 09:25	11/04/22 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		30 - 120				11/02/22 09:25	11/04/22 12:36	1
DCB Decachlorobiphenyl	70		30 - 140				11/02/22 09:25	11/04/22 12:36	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.5	J	4.7	2.3	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorohexanoic acid (PFHxA)	9.7		1.9	0.55	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluoroheptanoic acid (PFHpA)	51		1.9	0.24	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorononanoic acid (PFNA)	1.3	J	1.9	0.26	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorohexanesulfonic acid (PFHxS)	2.8		1.9	0.54	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:40	11/06/22 07:41	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-19

Lab Sample ID: 500-224562-6

Date Collected: 10/25/22 08:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	2.7		1.9	0.51	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/31/22 04:40	11/06/22 07:41	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		10/31/22 04:40	11/06/22 07:41	1
NEtFOSA	<0.83		1.9	0.83	ng/L		10/31/22 04:40	11/06/22 07:41	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:40	11/06/22 07:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:40	11/06/22 07:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:40	11/06/22 07:41	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:40	11/06/22 07:41	1
NEtFOSE	<0.81		1.9	0.81	ng/L		10/31/22 04:40	11/06/22 07:41	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 07:41	1
6:2 FTS	<2.4		4.7	2.4	ng/L		10/31/22 04:40	11/06/22 07:41	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:40	11/06/22 07:41	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:40	11/06/22 07:41	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:40	11/06/22 07:41	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 07:41	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 07:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	50		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C5 PFPeA	68		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C2 PFHxA	88		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C4 PFHpA	97		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C5 PFNA	101		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C2 PFDA	115		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C2 PFUnA	103		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C2 PFDoA	104		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C2 PFTeDA	99		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C3 PFBS	95		25 - 150	10/31/22 04:40	11/06/22 07:41	1
18O2 PFHxS	112		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C4 PFOS	102		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C8 FOSA	119		10 - 150	10/31/22 04:40	11/06/22 07:41	1
d3-NMeFOSAA	105		25 - 150	10/31/22 04:40	11/06/22 07:41	1
d5-NEtFOSAA	103		25 - 150	10/31/22 04:40	11/06/22 07:41	1
d-N-MeFOSA-M	88		10 - 150	10/31/22 04:40	11/06/22 07:41	1
d-N-EtFOSA-M	84		10 - 150	10/31/22 04:40	11/06/22 07:41	1
d7-N-MeFOSE-M	84		10 - 150	10/31/22 04:40	11/06/22 07:41	1
d9-N-EtFOSE-M	83		10 - 150	10/31/22 04:40	11/06/22 07:41	1
M2-4:2 FTS	136		25 - 150	10/31/22 04:40	11/06/22 07:41	1
M2-6:2 FTS	128		25 - 150	10/31/22 04:40	11/06/22 07:41	1
M2-8:2 FTS	115		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C3 HFPO-DA	83		25 - 150	10/31/22 04:40	11/06/22 07:41	1
13C2 10:2 FTS	86		25 - 150	10/31/22 04:40	11/06/22 07:41	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-19
Date Collected: 10/25/22 08:10
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-6
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	1200		9.5	4.0	ng/L		10/31/22 04:40	11/10/22 01:58	5
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>13C4 PFOA</i>	<i>92</i>		<i>25 - 150</i>				<i>10/31/22 04:40</i>	<i>11/10/22 01:58</i>	<i>5</i>

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	130		5.0	1.1	ug/L		11/23/22 08:54	11/28/22 20:16	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-19 DUP

Lab Sample ID: 500-224562-7

Date Collected: 10/25/22 08:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 19:09	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 19:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 19:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 19:09	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 19:09	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 19:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 19:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 19:09	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 19:09	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 19:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 19:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 19:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 19:09	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 19:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 19:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 19:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 19:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 19:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 19:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 19:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 19:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 19:09	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 19:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 19:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 19:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 19:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 19:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 19:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 19:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 19:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 19:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 19:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 19:09	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 19:09	1
Methylene Chloride	1.7 J		5.0	1.6	ug/L			11/04/22 19:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 19:09	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 19:09	1
n-Butylbenzene	0.64 J B		1.0	0.39	ug/L			11/04/22 19:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 19:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 19:09	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 19:09	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 19:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 19:09	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 19:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 19:09	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 19:09	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 19:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 19:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 19:09	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-19 DUP

Lab Sample ID: 500-224562-7

Date Collected: 10/25/22 08:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 19:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 19:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 19:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 19:09	1
Trichloroethene	6.8		0.50	0.16	ug/L			11/04/22 19:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 19:09	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 19:09	1
1,2,4-Trimethylbenzene	0.72	J B	1.0	0.36	ug/L			11/04/22 19:09	1
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L			11/04/22 19:09	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 19:09	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124		11/04/22 19:09	1
Dibromofluoromethane (Surr)	96		75 - 120		11/04/22 19:09	1
1,2-Dichloroethane-d4 (Surr)	94		75 - 126		11/04/22 19:09	1
Toluene-d8 (Surr)	93		75 - 120		11/04/22 19:09	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.056		0.33	0.056	ug/L		11/02/22 09:25	11/04/22 13:24	1
PCB-1221	<0.17		0.33	0.17	ug/L		11/02/22 09:25	11/04/22 13:24	1
PCB-1232	<0.17		0.33	0.17	ug/L		11/02/22 09:25	11/04/22 13:24	1
PCB-1242	<0.17		0.33	0.17	ug/L		11/02/22 09:25	11/04/22 13:24	1
PCB-1248	<0.17		0.33	0.17	ug/L		11/02/22 09:25	11/04/22 13:24	1
PCB-1254	<0.17		0.33	0.17	ug/L		11/02/22 09:25	11/04/22 13:24	1
PCB-1260	<0.059		0.33	0.059	ug/L		11/02/22 09:25	11/04/22 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		30 - 120	11/02/22 09:25	11/04/22 13:24	1
DCB Decachlorobiphenyl	79		30 - 140	11/02/22 09:25	11/04/22 13:24	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.0		4.8	2.3	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorohexanoic acid (PFHxA)	8.9		1.9	0.55	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluoroheptanoic acid (PFHpA)	54		1.9	0.24	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorononanoic acid (PFNA)	1.3	J	1.9	0.26	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorohexanesulfonic acid (PFHxS)	2.7		1.9	0.55	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:40	11/06/22 08:42	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-19 DUP

Lab Sample ID: 500-224562-7

Date Collected: 10/25/22 08:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	3.3		1.9	0.52	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		10/31/22 04:40	11/06/22 08:42	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		10/31/22 04:40	11/06/22 08:42	1
NEtFOSA	<0.83		1.9	0.83	ng/L		10/31/22 04:40	11/06/22 08:42	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:40	11/06/22 08:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		10/31/22 04:40	11/06/22 08:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		10/31/22 04:40	11/06/22 08:42	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:40	11/06/22 08:42	1
NEtFOSE	<0.81		1.9	0.81	ng/L		10/31/22 04:40	11/06/22 08:42	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 08:42	1
6:2 FTS	<2.4		4.8	2.4	ng/L		10/31/22 04:40	11/06/22 08:42	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:40	11/06/22 08:42	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:40	11/06/22 08:42	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:40	11/06/22 08:42	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 08:42	1
F-53B Minor	<0.31		1.9	0.31	ng/L		10/31/22 04:40	11/06/22 08:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	46		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C5 PFPeA	69		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C2 PFHxA	95		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C4 PFHpA	95		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C5 PFNA	104		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C2 PFDA	108		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C2 PFUnA	103		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C2 PFDoA	105		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C2 PFTeDA	93		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C3 PFBS	93		25 - 150	10/31/22 04:40	11/06/22 08:42	1
18O2 PFHxS	107		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C4 PFOS	97		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C8 FOSA	116		10 - 150	10/31/22 04:40	11/06/22 08:42	1
d3-NMeFOSAA	101		25 - 150	10/31/22 04:40	11/06/22 08:42	1
d5-NEtFOSAA	103		25 - 150	10/31/22 04:40	11/06/22 08:42	1
d-N-MeFOSA-M	90		10 - 150	10/31/22 04:40	11/06/22 08:42	1
d-N-EtFOSA-M	83		10 - 150	10/31/22 04:40	11/06/22 08:42	1
d7-N-MeFOSE-M	85		10 - 150	10/31/22 04:40	11/06/22 08:42	1
d9-N-EtFOSE-M	84		10 - 150	10/31/22 04:40	11/06/22 08:42	1
M2-4:2 FTS	135		25 - 150	10/31/22 04:40	11/06/22 08:42	1
M2-6:2 FTS	123		25 - 150	10/31/22 04:40	11/06/22 08:42	1
M2-8:2 FTS	110		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C3 HFPO-DA	84		25 - 150	10/31/22 04:40	11/06/22 08:42	1
13C2 10:2 FTS	90		25 - 150	10/31/22 04:40	11/06/22 08:42	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-19 DUP

Lab Sample ID: 500-224562-7

Date Collected: 10/25/22 08:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	1200		9.6	4.1	ng/L		10/31/22 04:40	11/10/22 02:28	5
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOA	94		25 - 150				10/31/22 04:40	11/10/22 02:28	5

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	140		5.0	1.1	ug/L		11/23/22 08:54	11/28/22 20:34	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-37

Lab Sample ID: 500-224562-8

Date Collected: 10/25/22 09:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 19:35	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 19:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 19:35	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 19:35	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 19:35	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 19:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 19:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 19:35	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 19:35	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 19:35	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 19:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 19:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 19:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 19:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 19:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 19:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 19:35	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 19:35	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 19:35	1
1,2-Dichlorobenzene	6.5		1.0	0.33	ug/L			11/04/22 19:35	1
1,3-Dichlorobenzene	1.6		1.0	0.40	ug/L			11/04/22 19:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 19:35	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 19:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 19:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 19:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 19:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 19:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 19:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 19:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 19:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 19:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 19:35	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 19:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 19:35	1
Methylene Chloride	1.7 J		5.0	1.6	ug/L			11/04/22 19:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 19:35	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 19:35	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 19:35	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 19:35	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 19:35	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 19:35	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 19:35	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 19:35	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 19:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 19:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 19:35	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 19:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 19:35	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 19:35	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-37

Lab Sample ID: 500-224562-8

Date Collected: 10/25/22 09:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	25		1.0	0.46	ug/L			11/04/22 19:35	1
1,2,4-Trichlorobenzene	59		1.0	0.34	ug/L			11/04/22 19:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 19:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 19:35	1
Trichloroethene	15		0.50	0.16	ug/L			11/04/22 19:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 19:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 19:35	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/04/22 19:35	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/22 19:35	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 19:35	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124		11/04/22 19:35	1
Dibromofluoromethane (Surr)	96		75 - 120		11/04/22 19:35	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 126		11/04/22 19:35	1
Toluene-d8 (Surr)	93		75 - 120		11/04/22 19:35	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.29		1.7	0.29	ug/L		11/02/22 09:25	11/07/22 13:30	5
PCB-1221	<0.85		1.7	0.85	ug/L		11/02/22 09:25	11/07/22 13:30	5
PCB-1232	<0.85		1.7	0.85	ug/L		11/02/22 09:25	11/07/22 13:30	5
PCB-1242	<0.85		1.7	0.85	ug/L		11/02/22 09:25	11/07/22 13:30	5
PCB-1248	<0.85		1.7	0.85	ug/L		11/02/22 09:25	11/07/22 13:30	5
PCB-1254	<0.85		1.7	0.85	ug/L		11/02/22 09:25	11/07/22 13:30	5
PCB-1260	3.4		1.7	0.30	ug/L		11/02/22 09:25	11/07/22 13:30	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		30 - 120	11/02/22 09:25	11/07/22 13:30	5
DCB Decachlorobiphenyl	57		30 - 140	11/02/22 09:25	11/07/22 13:30	5

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	14		4.9	2.4	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluoropentanoic acid (PFPeA)	6.3		2.0	0.48	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorohexanoic acid (PFHxA)	19		2.0	0.57	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluoroheptanoic acid (PFHpA)	110		2.0	0.25	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorononanoic acid (PFNA)	3.5		2.0	0.26	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		2.0	0.29	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorohexanesulfonic acid (PFHxS)	3.7		2.0	0.56	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:40	11/06/22 08:52	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-37

Lab Sample ID: 500-224562-8

Date Collected: 10/25/22 09:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	5.9		2.0	0.53	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		10/31/22 04:40	11/06/22 08:52	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		10/31/22 04:40	11/06/22 08:52	1
NEtFOSA	<0.85		2.0	0.85	ng/L		10/31/22 04:40	11/06/22 08:52	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/31/22 04:40	11/06/22 08:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		10/31/22 04:40	11/06/22 08:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		10/31/22 04:40	11/06/22 08:52	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/31/22 04:40	11/06/22 08:52	1
NEtFOSE	<0.83		2.0	0.83	ng/L		10/31/22 04:40	11/06/22 08:52	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:40	11/06/22 08:52	1
6:2 FTS	<2.5		4.9	2.5	ng/L		10/31/22 04:40	11/06/22 08:52	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/31/22 04:40	11/06/22 08:52	1
DONA	<0.39		2.0	0.39	ng/L		10/31/22 04:40	11/06/22 08:52	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/31/22 04:40	11/06/22 08:52	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:40	11/06/22 08:52	1
F-53B Minor	<0.31		2.0	0.31	ng/L		10/31/22 04:40	11/06/22 08:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	34		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C5 PFPeA	59		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C2 PFHxA	83		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C4 PFHpA	99		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C5 PFNA	103		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C2 PFDA	116		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C2 PFUnA	118		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C2 PFDoA	116		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C2 PFTeDA	116		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C3 PFBS	100		25 - 150	10/31/22 04:40	11/06/22 08:52	1
18O2 PFHxS	123		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C4 PFOS	112		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C8 FOSA	114		10 - 150	10/31/22 04:40	11/06/22 08:52	1
d3-NMeFOSAA	101		25 - 150	10/31/22 04:40	11/06/22 08:52	1
d5-NEtFOSAA	107		25 - 150	10/31/22 04:40	11/06/22 08:52	1
d-N-MeFOSA-M	102		10 - 150	10/31/22 04:40	11/06/22 08:52	1
d-N-EtFOSA-M	96		10 - 150	10/31/22 04:40	11/06/22 08:52	1
d7-N-MeFOSE-M	101		10 - 150	10/31/22 04:40	11/06/22 08:52	1
d9-N-EtFOSE-M	102		10 - 150	10/31/22 04:40	11/06/22 08:52	1
M2-4:2 FTS	152	*5+	25 - 150	10/31/22 04:40	11/06/22 08:52	1
M2-6:2 FTS	111		25 - 150	10/31/22 04:40	11/06/22 08:52	1
M2-8:2 FTS	150		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C3 HFPO-DA	87		25 - 150	10/31/22 04:40	11/06/22 08:52	1
13C2 10:2 FTS	118		25 - 150	10/31/22 04:40	11/06/22 08:52	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-37
Date Collected: 10/25/22 09:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-8
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	4400		39	17	ng/L		10/31/22 04:40	11/15/22 15:37	20
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C4 PFOA	88		25 - 150				10/31/22 04:40	11/15/22 15:37	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-233

Lab Sample ID: 500-224562-9

Date Collected: 10/25/22 11:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.062		0.37	0.062	ug/L		11/02/22 09:25	11/04/22 13:57	1
PCB-1221	<0.18		0.37	0.18	ug/L		11/02/22 09:25	11/04/22 13:57	1
PCB-1232	<0.18		0.37	0.18	ug/L		11/02/22 09:25	11/04/22 13:57	1
PCB-1242	<0.18		0.37	0.18	ug/L		11/02/22 09:25	11/04/22 13:57	1
PCB-1248	<0.18		0.37	0.18	ug/L		11/02/22 09:25	11/04/22 13:57	1
PCB-1254	<0.18		0.37	0.18	ug/L		11/02/22 09:25	11/04/22 13:57	1
PCB-1260	<0.064		0.37	0.064	ug/L		11/02/22 09:25	11/04/22 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		30 - 120	11/02/22 09:25	11/04/22 13:57	1
DCB Decachlorobiphenyl	83		30 - 140	11/02/22 09:25	11/04/22 13:57	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.8	J	4.7	2.3	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluoropentanoic acid (PFPeA)	0.88	J	1.9	0.46	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorohexanoic acid (PFHxA)	2.5		1.9	0.55	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluoroheptanoic acid (PFHpA)	6.9		1.9	0.24	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorooctanoic acid (PFOA)	130		1.9	0.80	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorobutanesulfonic acid (PFBS)	0.52	J	1.9	0.19	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorohexanesulfonic acid (PFHxS)	3.2		1.9	0.54	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorooctanesulfonic acid (PFOS)	2.9		1.9	0.51	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/31/22 04:40	11/06/22 09:02	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		10/31/22 04:40	11/06/22 09:02	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/31/22 04:40	11/06/22 09:02	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 04:40	11/06/22 09:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:40	11/06/22 09:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:40	11/06/22 09:02	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 04:40	11/06/22 09:02	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/31/22 04:40	11/06/22 09:02	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 09:02	1
6:2 FTS	<2.4		4.7	2.4	ng/L		10/31/22 04:40	11/06/22 09:02	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 04:40	11/06/22 09:02	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 04:40	11/06/22 09:02	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-233

Lab Sample ID: 500-224562-9

Date Collected: 10/25/22 11:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 04:40	11/06/22 09:02	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 09:02	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 09:02	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	73		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C5 PFPeA	88		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C2 PFHxA	108		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C4 PFHpA	104		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C4 PFOA	100		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C5 PFNA	95		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C2 PFDA	101		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C2 PFUnA	97		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C2 PFDoA	95		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C2 PFTeDA	92		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C3 PFBS	108		25 - 150				10/31/22 04:40	11/06/22 09:02	1
18O2 PFHxS	109		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C4 PFOS	95		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C8 FOSA	108		10 - 150				10/31/22 04:40	11/06/22 09:02	1
d3-NMeFOSAA	87		25 - 150				10/31/22 04:40	11/06/22 09:02	1
d5-NEtFOSAA	92		25 - 150				10/31/22 04:40	11/06/22 09:02	1
d-N-MeFOSA-M	80		10 - 150				10/31/22 04:40	11/06/22 09:02	1
d-N-EtFOSA-M	84		10 - 150				10/31/22 04:40	11/06/22 09:02	1
d7-N-MeFOSE-M	83		10 - 150				10/31/22 04:40	11/06/22 09:02	1
d9-N-EtFOSE-M	84		10 - 150				10/31/22 04:40	11/06/22 09:02	1
M2-4:2 FTS	103		25 - 150				10/31/22 04:40	11/06/22 09:02	1
M2-6:2 FTS	87		25 - 150				10/31/22 04:40	11/06/22 09:02	1
M2-8:2 FTS	85		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C3 HFPO-DA	94		25 - 150				10/31/22 04:40	11/06/22 09:02	1
13C2 10:2 FTS	79		25 - 150				10/31/22 04:40	11/06/22 09:02	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-67

Lab Sample ID: 500-224562-10

Date Collected: 10/25/22 12:35

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.059		0.35	0.059	ug/L		11/02/22 09:25	11/04/22 14:13	1
PCB-1221	<0.18		0.35	0.18	ug/L		11/02/22 09:25	11/04/22 14:13	1
PCB-1232	<0.18		0.35	0.18	ug/L		11/02/22 09:25	11/04/22 14:13	1
PCB-1242	<0.18		0.35	0.18	ug/L		11/02/22 09:25	11/04/22 14:13	1
PCB-1248	<0.18		0.35	0.18	ug/L		11/02/22 09:25	11/04/22 14:13	1
PCB-1254	<0.18		0.35	0.18	ug/L		11/02/22 09:25	11/04/22 14:13	1
PCB-1260	<0.062		0.35	0.062	ug/L		11/02/22 09:25	11/04/22 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		30 - 120	11/02/22 09:25	11/04/22 14:13	1
DCB Decachlorobiphenyl	90		30 - 140	11/02/22 09:25	11/04/22 14:13	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	10		4.6	2.2	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.9	0.45	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorohexanoic acid (PFHxA)	4.2		1.9	0.54	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluoroheptanoic acid (PFHpA)	11		1.9	0.23	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorooctanoic acid (PFOA)	220		1.9	0.79	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorononanoic acid (PFNA)	0.99 J		1.9	0.25	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorohexanesulfonic acid (PFHxS)	4.2		1.9	0.53	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluoroheptanesulfonic acid (PFHpS)	0.62 J		1.9	0.18	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorooctanesulfonic acid (PFOS)	20		1.9	0.50	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 04:40	11/06/22 09:12	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 04:40	11/06/22 09:12	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:40	11/06/22 09:12	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:40	11/06/22 09:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 04:40	11/06/22 09:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 04:40	11/06/22 09:12	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:40	11/06/22 09:12	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:40	11/06/22 09:12	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:40	11/06/22 09:12	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 04:40	11/06/22 09:12	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:40	11/06/22 09:12	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:40	11/06/22 09:12	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:40	11/06/22 09:12	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-67

Lab Sample ID: 500-224562-10

Date Collected: 10/25/22 12:35

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:40	11/06/22 09:12	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 09:12	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	53		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C5 PFPeA	69		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C2 PFHxA	89		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C4 PFHpA	100		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C4 PFOA	97		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C5 PFNA	97		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C2 PFDA	103		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C2 PFUnA	108		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C2 PFDoA	103		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C2 PFTeDA	93		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C3 PFBS	99		25 - 150				10/31/22 04:40	11/06/22 09:12	1
18O2 PFHxS	108		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C4 PFOS	98		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C8 FOSA	108		10 - 150				10/31/22 04:40	11/06/22 09:12	1
d3-NMeFOSAA	100		25 - 150				10/31/22 04:40	11/06/22 09:12	1
d5-NEtFOSAA	108		25 - 150				10/31/22 04:40	11/06/22 09:12	1
d-N-MeFOSA-M	88		10 - 150				10/31/22 04:40	11/06/22 09:12	1
d-N-EtFOSA-M	87		10 - 150				10/31/22 04:40	11/06/22 09:12	1
d7-N-MeFOSE-M	85		10 - 150				10/31/22 04:40	11/06/22 09:12	1
d9-N-EtFOSE-M	82		10 - 150				10/31/22 04:40	11/06/22 09:12	1
M2-4:2 FTS	140		25 - 150				10/31/22 04:40	11/06/22 09:12	1
M2-6:2 FTS	134		25 - 150				10/31/22 04:40	11/06/22 09:12	1
M2-8:2 FTS	131		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C3 HFPO-DA	82		25 - 150				10/31/22 04:40	11/06/22 09:12	1
13C2 10:2 FTS	102		25 - 150				10/31/22 04:40	11/06/22 09:12	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: PZ-206

Lab Sample ID: 500-224562-11

Date Collected: 10/25/22 13:35

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.7	2.2	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorohexanoic acid (PFHxA)	0.94	J	1.9	0.54	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluoroheptanoic acid (PFHpA)	0.51	J	1.9	0.23	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorooctanoic acid (PFOA)	2.3		1.9	0.79	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 04:40	11/06/22 09:22	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 04:40	11/06/22 09:22	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 04:40	11/06/22 09:22	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 04:40	11/06/22 09:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 04:40	11/06/22 09:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 04:40	11/06/22 09:22	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 04:40	11/06/22 09:22	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 04:40	11/06/22 09:22	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 04:40	11/06/22 09:22	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/31/22 04:40	11/06/22 09:22	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 04:40	11/06/22 09:22	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 04:40	11/06/22 09:22	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 04:40	11/06/22 09:22	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 04:40	11/06/22 09:22	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 04:40	11/06/22 09:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	74		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C5 PFPeA	90		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C2 PFHxA	97		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C4 PFHpA	98		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C4 PFOA	95		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C5 PFNA	93		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C2 PFDA	93		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C2 PFUnA	88		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C2 PFDoA	88		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C2 PFTeDA	80		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C3 PFBS	103		25 - 150	10/31/22 04:40	11/06/22 09:22	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: PZ-206
Date Collected: 10/25/22 13:35
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-11
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	105		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C4 PFOS	91		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C8 FOSA	100		10 - 150	10/31/22 04:40	11/06/22 09:22	1
d3-NMeFOSAA	81		25 - 150	10/31/22 04:40	11/06/22 09:22	1
d5-NEtFOSAA	82		25 - 150	10/31/22 04:40	11/06/22 09:22	1
d-N-MeFOSA-M	69		10 - 150	10/31/22 04:40	11/06/22 09:22	1
d-N-EtFOSA-M	71		10 - 150	10/31/22 04:40	11/06/22 09:22	1
d7-N-MeFOSE-M	69		10 - 150	10/31/22 04:40	11/06/22 09:22	1
d9-N-EtFOSE-M	69		10 - 150	10/31/22 04:40	11/06/22 09:22	1
M2-4:2 FTS	84		25 - 150	10/31/22 04:40	11/06/22 09:22	1
M2-6:2 FTS	76		25 - 150	10/31/22 04:40	11/06/22 09:22	1
M2-8:2 FTS	74		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C3 HFPO-DA	83		25 - 150	10/31/22 04:40	11/06/22 09:22	1
13C2 10:2 FTS	70		25 - 150	10/31/22 04:40	11/06/22 09:22	1



Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-60

Lab Sample ID: 500-224562-12

Date Collected: 10/25/22 15:50

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.061		0.36	0.061	ug/L		11/02/22 09:25	11/04/22 14:29	1
PCB-1221	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 14:29	1
PCB-1232	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 14:29	1
PCB-1242	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 14:29	1
PCB-1248	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 14:29	1
PCB-1254	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 14:29	1
PCB-1260	<0.063		0.36	0.063	ug/L		11/02/22 09:25	11/04/22 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		30 - 120	11/02/22 09:25	11/04/22 14:29	1
DCB Decachlorobiphenyl	55		30 - 140	11/02/22 09:25	11/04/22 14:29	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	10		5.0	2.4	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluoropentanoic acid (PFPeA)	0.97	J	2.0	0.49	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluoroheptanoic acid (PFHpA)	1.7	J	2.0	0.25	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorooctanoic acid (PFOA)	39		2.0	0.85	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorobutanesulfonic acid (PFBS)	0.72	J	2.0	0.20	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorohexanesulfonic acid (PFHxS)	0.63	J	2.0	0.57	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorooctanesulfonic acid (PFOS)	0.80	J	2.0	0.54	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 04:40	11/06/22 09:32	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 04:40	11/06/22 09:32	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 04:40	11/06/22 09:32	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:40	11/06/22 09:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:40	11/06/22 09:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:40	11/06/22 09:32	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:40	11/06/22 09:32	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 04:40	11/06/22 09:32	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:40	11/06/22 09:32	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:40	11/06/22 09:32	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:40	11/06/22 09:32	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:40	11/06/22 09:32	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-60

Lab Sample ID: 500-224562-12

Date Collected: 10/25/22 15:50

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:40	11/06/22 09:32	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:40	11/06/22 09:32	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:40	11/06/22 09:32	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	67		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C5 PFPeA	89		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C2 PFHxA	98		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C4 PFHpA	99		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C4 PFOA	101		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C5 PFNA	95		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C2 PFDA	97		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C2 PFUnA	92		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C2 PFDoA	92		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C2 PFTeDA	89		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C3 PFBS	103		25 - 150				10/31/22 04:40	11/06/22 09:32	1
18O2 PFHxS	104		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C4 PFOS	95		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C8 FOSA	104		10 - 150				10/31/22 04:40	11/06/22 09:32	1
d3-NMeFOSAA	90		25 - 150				10/31/22 04:40	11/06/22 09:32	1
d5-NEtFOSAA	89		25 - 150				10/31/22 04:40	11/06/22 09:32	1
d-N-MeFOSA-M	84		10 - 150				10/31/22 04:40	11/06/22 09:32	1
d-N-EtFOSA-M	81		10 - 150				10/31/22 04:40	11/06/22 09:32	1
d7-N-MeFOSE-M	80		10 - 150				10/31/22 04:40	11/06/22 09:32	1
d9-N-EtFOSE-M	80		10 - 150				10/31/22 04:40	11/06/22 09:32	1
M2-4:2 FTS	102		25 - 150				10/31/22 04:40	11/06/22 09:32	1
M2-6:2 FTS	89		25 - 150				10/31/22 04:40	11/06/22 09:32	1
M2-8:2 FTS	81		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C3 HFPO-DA	86		25 - 150				10/31/22 04:40	11/06/22 09:32	1
13C2 10:2 FTS	76		25 - 150				10/31/22 04:40	11/06/22 09:32	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	52	J	100	25	ug/L		11/23/22 08:54	11/28/22 20:37	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-6

Lab Sample ID: 500-224562-13

Date Collected: 10/25/22 14:40

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.060		0.36	0.060	ug/L		11/02/22 09:25	11/04/22 14:45	1
PCB-1221	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 14:45	1
PCB-1232	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 14:45	1
PCB-1242	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 14:45	1
PCB-1248	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 14:45	1
PCB-1254	<0.18		0.36	0.18	ug/L		11/02/22 09:25	11/04/22 14:45	1
PCB-1260	<0.063		0.36	0.063	ug/L		11/02/22 09:25	11/04/22 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	47		30 - 120	11/02/22 09:25	11/04/22 14:45	1
DCB Decachlorobiphenyl	74		30 - 140	11/02/22 09:25	11/04/22 14:45	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<12		24	12	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluoropentanoic acid (PFPeA)	<2.4		9.6	2.4	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorohexanoic acid (PFHxA)	<2.8		9.6	2.8	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluoroheptanoic acid (PFHpA)	75		9.6	1.2	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorooctanoic acid (PFOA)	1300		9.6	4.1	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorononanoic acid (PFNA)	<1.3		9.6	1.3	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorodecanoic acid (PFDA)	<1.5		9.6	1.5	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluoroundecanoic acid (PFUnA)	<5.3		9.6	5.3	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorododecanoic acid (PFDoA)	<2.6		9.6	2.6	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorotridecanoic acid (PFTriA)	<6.3		9.6	6.3	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorotetradecanoic acid (PFTeA)	<3.5		9.6	3.5	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorobutanesulfonic acid (PFBS)	<0.96		9.6	0.96	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluoropentanesulfonic acid (PFPeS)	<1.4		9.6	1.4	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorohexanesulfonic acid (PFHxS)	<2.7		9.6	2.7	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluoroheptanesulfonic acid (PFHpS)	<0.91		9.6	0.91	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorooctanesulfonic acid (PFOS)	6.4 J		9.6	2.6	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorononanesulfonic acid (PFNS)	<1.8		9.6	1.8	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorodecanesulfonic acid (PFDS)	<1.5		9.6	1.5	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorododecanesulfonic acid (PFDoS)	<4.7		9.6	4.7	ng/L		10/31/22 04:40	11/10/22 03:29	5
Perfluorooctanesulfonamide (FOSA)	<4.7		9.6	4.7	ng/L		10/31/22 04:40	11/10/22 03:29	5
NEtFOSA	<4.2		9.6	4.2	ng/L		10/31/22 04:40	11/10/22 03:29	5
NMeFOSA	<2.1		9.6	2.1	ng/L		10/31/22 04:40	11/10/22 03:29	5
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<5.8		24	5.8	ng/L		10/31/22 04:40	11/10/22 03:29	5
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<6.3		24	6.3	ng/L		10/31/22 04:40	11/10/22 03:29	5
NMeFOSE	<6.7		19	6.7	ng/L		10/31/22 04:40	11/10/22 03:29	5
NEtFOSE	<4.1		9.6	4.1	ng/L		10/31/22 04:40	11/10/22 03:29	5
4:2 FTS	<1.2		9.6	1.2	ng/L		10/31/22 04:40	11/10/22 03:29	5
6:2 FTS	<12		24	12	ng/L		10/31/22 04:40	11/10/22 03:29	5
8:2 FTS	<2.2		9.6	2.2	ng/L		10/31/22 04:40	11/10/22 03:29	5
DONA	<1.9		9.6	1.9	ng/L		10/31/22 04:40	11/10/22 03:29	5
HFPO-DA (GenX)	<7.2		19	7.2	ng/L		10/31/22 04:40	11/10/22 03:29	5

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-6

Lab Sample ID: 500-224562-13

Date Collected: 10/25/22 14:40

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
F-53B Major	<1.2		9.6	1.2	ng/L		10/31/22 04:40	11/10/22 03:29	5
F-53B Minor	<1.5		9.6	1.5	ng/L		10/31/22 04:40	11/10/22 03:29	5
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	30		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C5 PFPeA	47		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C2 PFHxA	71		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C4 PFHpA	89		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C4 PFOA	93		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C5 PFNA	104		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C2 PFDA	119		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C2 PFUnA	121		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C2 PFDoA	120		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C2 PFTeDA	108		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C3 PFBS	94		25 - 150				10/31/22 04:40	11/10/22 03:29	5
18O2 PFHxS	118		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C4 PFOS	113		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C8 FOSA	116		10 - 150				10/31/22 04:40	11/10/22 03:29	5
d3-NMeFOSAA	110		25 - 150				10/31/22 04:40	11/10/22 03:29	5
d5-NEtFOSAA	129		25 - 150				10/31/22 04:40	11/10/22 03:29	5
d-N-MeFOSA-M	97		10 - 150				10/31/22 04:40	11/10/22 03:29	5
d-N-EtFOSA-M	98		10 - 150				10/31/22 04:40	11/10/22 03:29	5
d7-N-MeFOSE-M	115		10 - 150				10/31/22 04:40	11/10/22 03:29	5
d9-N-EtFOSE-M	107		10 - 150				10/31/22 04:40	11/10/22 03:29	5
M2-4:2 FTS	122		25 - 150				10/31/22 04:40	11/10/22 03:29	5
M2-6:2 FTS	190	*5+	25 - 150				10/31/22 04:40	11/10/22 03:29	5
M2-8:2 FTS	198	*5+	25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C3 HFPO-DA	75		25 - 150				10/31/22 04:40	11/10/22 03:29	5
13C2 10:2 FTS	155	*5+	25 - 150				10/31/22 04:40	11/10/22 03:29	5

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	150		100	25	ug/L		11/23/22 08:54	11/28/22 20:41	1
Lead	0.38	J ^+	0.50	0.19	ug/L		11/23/22 08:54	11/28/22 20:41	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-03
Date Collected: 10/25/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-14
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 20:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 20:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 20:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 20:02	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 20:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 20:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 20:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 20:02	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 20:02	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 20:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 20:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 20:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 20:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 20:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 20:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 20:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 20:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 20:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 20:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 20:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 20:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 20:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 20:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 20:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 20:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 20:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 20:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 20:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 20:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 20:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 20:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 20:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 20:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 20:02	1
Methylene Chloride	2.1 J		5.0	1.6	ug/L			11/04/22 20:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 20:02	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 20:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 20:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 20:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 20:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 20:02	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 20:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 20:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 20:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 20:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 20:02	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 20:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 20:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 20:02	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-03
Date Collected: 10/25/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-14
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 20:02	1
1,2,4-Trichlorobenzene	0.62	J	1.0	0.34	ug/L			11/04/22 20:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 20:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 20:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/22 20:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 20:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 20:02	1
1,2,4-Trimethylbenzene	0.72	J B	1.0	0.36	ug/L			11/04/22 20:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/22 20:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 20:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		72 - 124					11/04/22 20:02	1
Dibromofluoromethane (Surr)	95		75 - 120					11/04/22 20:02	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 126					11/04/22 20:02	1
Toluene-d8 (Surr)	93		75 - 120					11/04/22 20:02	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.057		0.34	0.057	ug/L		11/02/22 09:25	11/04/22 15:01	1
PCB-1221	<0.17		0.34	0.17	ug/L		11/02/22 09:25	11/04/22 15:01	1
PCB-1232	<0.17		0.34	0.17	ug/L		11/02/22 09:25	11/04/22 15:01	1
PCB-1242	<0.17		0.34	0.17	ug/L		11/02/22 09:25	11/04/22 15:01	1
PCB-1248	<0.17		0.34	0.17	ug/L		11/02/22 09:25	11/04/22 15:01	1
PCB-1254	<0.17		0.34	0.17	ug/L		11/02/22 09:25	11/04/22 15:01	1
PCB-1260	<0.059		0.34	0.059	ug/L		11/02/22 09:25	11/04/22 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		30 - 120				11/02/22 09:25	11/04/22 15:01	1
DCB Decachlorobiphenyl	67		30 - 140				11/02/22 09:25	11/04/22 15:01	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.3	2.1	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorooctanoic acid (PFOA)	<0.73		1.7	0.73	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorotridecanoic acid (PFTriA)	<1.1		1.7	1.1	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		10/31/22 05:09	11/06/22 11:13	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-03
Date Collected: 10/25/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-14
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		10/31/22 05:09	11/06/22 11:13	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		10/31/22 05:09	11/06/22 11:13	1
NEtFOSA	<0.75		1.7	0.75	ng/L		10/31/22 05:09	11/06/22 11:13	1
NMeFOSA	<0.37		1.7	0.37	ng/L		10/31/22 05:09	11/06/22 11:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.0		4.3	1.0	ng/L		10/31/22 05:09	11/06/22 11:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.1		4.3	1.1	ng/L		10/31/22 05:09	11/06/22 11:13	1
NMeFOSE	<1.2		3.4	1.2	ng/L		10/31/22 05:09	11/06/22 11:13	1
NEtFOSE	<0.73		1.7	0.73	ng/L		10/31/22 05:09	11/06/22 11:13	1
4:2 FTS	<0.21		1.7	0.21	ng/L		10/31/22 05:09	11/06/22 11:13	1
6:2 FTS	<2.1		4.3	2.1	ng/L		10/31/22 05:09	11/06/22 11:13	1
8:2 FTS	<0.40		1.7	0.40	ng/L		10/31/22 05:09	11/06/22 11:13	1
DONA	<0.34		1.7	0.34	ng/L		10/31/22 05:09	11/06/22 11:13	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		10/31/22 05:09	11/06/22 11:13	1
F-53B Major	<0.21		1.7	0.21	ng/L		10/31/22 05:09	11/06/22 11:13	1
F-53B Minor	<0.27		1.7	0.27	ng/L		10/31/22 05:09	11/06/22 11:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C5 PFPeA	94		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C2 PFHxA	96		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C4 PFHpA	95		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C4 PFOA	98		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C5 PFNA	90		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C2 PFDA	97		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C2 PFUnA	101		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C2 PFDoA	102		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C2 PFTeDA	98		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C3 PFBS	102		25 - 150	10/31/22 05:09	11/06/22 11:13	1
18O2 PFHxS	96		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C4 PFOS	92		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C8 FOSA	100		10 - 150	10/31/22 05:09	11/06/22 11:13	1
d3-NMeFOSAA	91		25 - 150	10/31/22 05:09	11/06/22 11:13	1
d5-NEtFOSAA	93		25 - 150	10/31/22 05:09	11/06/22 11:13	1
d-N-MeFOSA-M	85		10 - 150	10/31/22 05:09	11/06/22 11:13	1
d-N-EtFOSA-M	87		10 - 150	10/31/22 05:09	11/06/22 11:13	1
d7-N-MeFOSE-M	93		10 - 150	10/31/22 05:09	11/06/22 11:13	1
d9-N-EtFOSE-M	91		10 - 150	10/31/22 05:09	11/06/22 11:13	1
M2-4:2 FTS	89		25 - 150	10/31/22 05:09	11/06/22 11:13	1
M2-6:2 FTS	83		25 - 150	10/31/22 05:09	11/06/22 11:13	1
M2-8:2 FTS	84		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C3 HFPO-DA	88		25 - 150	10/31/22 05:09	11/06/22 11:13	1
13C2 10:2 FTS	89		25 - 150	10/31/22 05:09	11/06/22 11:13	1

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-03
Date Collected: 10/25/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-14
Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		11/23/22 08:54	11/28/22 20:51	1
Chromium	<1.1		5.0	1.1	ug/L		11/23/22 08:54	11/28/22 20:51	1
Lead	<0.19	^+	0.50	0.19	ug/L		11/23/22 08:54	11/28/22 20:51	1

- 1
- 2
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- 4
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- 10
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- 14
- 15
- 16
- 17

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: FB-03
Date Collected: 10/25/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-15
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.5	2.1	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorooctanoic acid (PFOA)	<0.76		1.8	0.76	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		10/31/22 05:09	11/06/22 11:23	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		10/31/22 05:09	11/06/22 11:23	1
NEtFOSA	<0.78		1.8	0.78	ng/L		10/31/22 05:09	11/06/22 11:23	1
NMeFOSA	<0.38		1.8	0.38	ng/L		10/31/22 05:09	11/06/22 11:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		10/31/22 05:09	11/06/22 11:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		10/31/22 05:09	11/06/22 11:23	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/31/22 05:09	11/06/22 11:23	1
NEtFOSE	<0.76		1.8	0.76	ng/L		10/31/22 05:09	11/06/22 11:23	1
4:2 FTS	<0.21		1.8	0.21	ng/L		10/31/22 05:09	11/06/22 11:23	1
6:2 FTS	<2.2		4.5	2.2	ng/L		10/31/22 05:09	11/06/22 11:23	1
8:2 FTS	<0.41		1.8	0.41	ng/L		10/31/22 05:09	11/06/22 11:23	1
DONA	<0.36		1.8	0.36	ng/L		10/31/22 05:09	11/06/22 11:23	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		10/31/22 05:09	11/06/22 11:23	1
F-53B Major	<0.21		1.8	0.21	ng/L		10/31/22 05:09	11/06/22 11:23	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 05:09	11/06/22 11:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	89		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C5 PFPeA	93		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C2 PFHxA	95		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C4 PFHpA	95		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C4 PFOA	95		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C5 PFNA	92		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C2 PFDA	95		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C2 PFUnA	92		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C2 PFDoA	95		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C2 PFTeDA	95		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C3 PFBS	101		25 - 150	10/31/22 05:09	11/06/22 11:23	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: FB-03
Date Collected: 10/25/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-15
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	100		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C4 PFOS	87		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C8 FOSA	100		10 - 150	10/31/22 05:09	11/06/22 11:23	1
d3-NMeFOSAA	85		25 - 150	10/31/22 05:09	11/06/22 11:23	1
d5-NEtFOSAA	90		25 - 150	10/31/22 05:09	11/06/22 11:23	1
d-N-MeFOSA-M	86		10 - 150	10/31/22 05:09	11/06/22 11:23	1
d-N-EtFOSA-M	88		10 - 150	10/31/22 05:09	11/06/22 11:23	1
d7-N-MeFOSE-M	89		10 - 150	10/31/22 05:09	11/06/22 11:23	1
d9-N-EtFOSE-M	91		10 - 150	10/31/22 05:09	11/06/22 11:23	1
M2-4:2 FTS	83		25 - 150	10/31/22 05:09	11/06/22 11:23	1
M2-6:2 FTS	80		25 - 150	10/31/22 05:09	11/06/22 11:23	1
M2-8:2 FTS	73		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C3 HFPO-DA	92		25 - 150	10/31/22 05:09	11/06/22 11:23	1
13C2 10:2 FTS	76		25 - 150	10/31/22 05:09	11/06/22 11:23	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: PZ-200

Lab Sample ID: 500-224562-16

Date Collected: 10/26/22 07:40

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluoropentanoic acid (PFPeA)	0.94	J	1.8	0.45	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorohexanoic acid (PFHxA)	2.2		1.8	0.53	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.8	0.23	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorooctanoic acid (PFOA)	6.9		1.8	0.78	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorononanoic acid (PFNA)	0.57	J I	1.8	0.25	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/31/22 05:09	11/06/22 11:34	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/31/22 05:09	11/06/22 11:34	1
NEtFOSA	<0.80		1.8	0.80	ng/L		10/31/22 05:09	11/06/22 11:34	1
NMeFOSA	<0.40		1.8	0.40	ng/L		10/31/22 05:09	11/06/22 11:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 05:09	11/06/22 11:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 05:09	11/06/22 11:34	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 05:09	11/06/22 11:34	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/31/22 05:09	11/06/22 11:34	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 05:09	11/06/22 11:34	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 05:09	11/06/22 11:34	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 05:09	11/06/22 11:34	1
DONA	<0.37		1.8	0.37	ng/L		10/31/22 05:09	11/06/22 11:34	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 05:09	11/06/22 11:34	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 05:09	11/06/22 11:34	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 05:09	11/06/22 11:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	63		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C5 PFPeA	76		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C2 PFHxA	94		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C4 PFHpA	107		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C4 PFOA	94		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C5 PFNA	88		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C2 PFDA	95		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C2 PFUnA	91		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C2 PFDoA	83		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C2 PFTeDA	84		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C3 PFBS	97		25 - 150	10/31/22 05:09	11/06/22 11:34	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: PZ-200

Lab Sample ID: 500-224562-16

Date Collected: 10/26/22 07:40

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	100		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C4 PFOS	84		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C8 FOSA	98		10 - 150	10/31/22 05:09	11/06/22 11:34	1
d3-NMeFOSAA	81		25 - 150	10/31/22 05:09	11/06/22 11:34	1
d5-NEtFOSAA	86		25 - 150	10/31/22 05:09	11/06/22 11:34	1
d-N-MeFOSA-M	82		10 - 150	10/31/22 05:09	11/06/22 11:34	1
d-N-EtFOSA-M	81		10 - 150	10/31/22 05:09	11/06/22 11:34	1
d7-N-MeFOSE-M	81		10 - 150	10/31/22 05:09	11/06/22 11:34	1
d9-N-EtFOSE-M	79		10 - 150	10/31/22 05:09	11/06/22 11:34	1
M2-4:2 FTS	104		25 - 150	10/31/22 05:09	11/06/22 11:34	1
M2-6:2 FTS	80		25 - 150	10/31/22 05:09	11/06/22 11:34	1
M2-8:2 FTS	71		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C3 HFPO-DA	85		25 - 150	10/31/22 05:09	11/06/22 11:34	1
13C2 10:2 FTS	75		25 - 150	10/31/22 05:09	11/06/22 11:34	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-200

Lab Sample ID: 500-224562-17

Date Collected: 10/26/22 08:20

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.1		4.6	2.2	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluoropentanoic acid (PFPeA)	6.5		1.9	0.45	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorohexanoic acid (PFHxA)	7.8		1.9	0.54	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluoroheptanoic acid (PFHpA)	8.8		1.9	0.23	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorooctanoic acid (PFOA)	110		1.9	0.79	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorobutanesulfonic acid (PFBS)	22		1.9	0.19	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluoropentanesulfonic acid (PFPeS)	0.56	J	1.9	0.28	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.9	0.53	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorooctanesulfonic acid (PFOS)	3.3	I	1.9	0.50	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 05:09	11/06/22 11:44	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 05:09	11/06/22 11:44	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 05:09	11/06/22 11:44	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 05:09	11/06/22 11:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 05:09	11/06/22 11:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 05:09	11/06/22 11:44	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 05:09	11/06/22 11:44	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 05:09	11/06/22 11:44	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 05:09	11/06/22 11:44	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 05:09	11/06/22 11:44	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 05:09	11/06/22 11:44	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 05:09	11/06/22 11:44	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 05:09	11/06/22 11:44	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 05:09	11/06/22 11:44	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 05:09	11/06/22 11:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	77		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C5 PFPeA	87		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C2 PFHxA	93		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C4 PFHpA	90		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C4 PFOA	91		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C5 PFNA	88		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C2 PFDA	91		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C2 PFUnA	86		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C2 PFDoA	87		25 - 150	10/31/22 05:09	11/06/22 11:44	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-200

Lab Sample ID: 500-224562-17

Date Collected: 10/26/22 08:20

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFTeDA	83		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C3 PFBS	91		25 - 150	10/31/22 05:09	11/06/22 11:44	1
18O2 PFHxS	88		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C4 PFOS	74		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C8 FOSA	90		10 - 150	10/31/22 05:09	11/06/22 11:44	1
d3-NMeFOSAA	79		25 - 150	10/31/22 05:09	11/06/22 11:44	1
d5-NEtFOSAA	83		25 - 150	10/31/22 05:09	11/06/22 11:44	1
d-N-MeFOSA-M	74		10 - 150	10/31/22 05:09	11/06/22 11:44	1
d-N-EtFOSA-M	72		10 - 150	10/31/22 05:09	11/06/22 11:44	1
d7-N-MeFOSE-M	80		10 - 150	10/31/22 05:09	11/06/22 11:44	1
d9-N-EtFOSE-M	78		10 - 150	10/31/22 05:09	11/06/22 11:44	1
M2-4:2 FTS	85		25 - 150	10/31/22 05:09	11/06/22 11:44	1
M2-6:2 FTS	72		25 - 150	10/31/22 05:09	11/06/22 11:44	1
M2-8:2 FTS	66		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C3 HFPO-DA	90		25 - 150	10/31/22 05:09	11/06/22 11:44	1
13C2 10:2 FTS	69		25 - 150	10/31/22 05:09	11/06/22 11:44	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-5
Date Collected: 10/26/22 08:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-18
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.4		0.50	0.15	ug/L			11/07/22 18:00	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/07/22 18:00	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/07/22 18:00	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/07/22 18:00	1
Bromoform	<0.48		1.0	0.48	ug/L			11/07/22 18:00	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/07/22 18:00	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/07/22 18:00	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/07/22 18:00	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/07/22 18:00	1
Chloroform	<0.37		2.0	0.37	ug/L			11/07/22 18:00	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/07/22 18:00	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/07/22 18:00	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/07/22 18:00	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/07/22 18:00	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/07/22 18:00	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/07/22 18:00	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/07/22 18:00	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/07/22 18:00	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/07/22 18:00	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/07/22 18:00	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/07/22 18:00	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/07/22 18:00	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/07/22 18:00	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/07/22 18:00	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/07/22 18:00	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/07/22 18:00	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/07/22 18:00	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/07/22 18:00	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/07/22 18:00	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/07/22 18:00	1
Ethylbenzene	31		0.50	0.18	ug/L			11/07/22 18:00	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/07/22 18:00	1
Isopropylbenzene	55		1.0	0.39	ug/L			11/07/22 18:00	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/07/22 18:00	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/07/22 18:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/07/22 18:00	1
Naphthalene	130 B		1.0	0.34	ug/L			11/07/22 18:00	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/07/22 18:00	1
N-Propylbenzene	82		1.0	0.41	ug/L			11/07/22 18:00	1
p-Isopropyltoluene	18		1.0	0.36	ug/L			11/07/22 18:00	1
sec-Butylbenzene	14		1.0	0.40	ug/L			11/07/22 18:00	1
Styrene	<0.39		1.0	0.39	ug/L			11/07/22 18:00	1
tert-Butylbenzene	2.7		1.0	0.40	ug/L			11/07/22 18:00	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/07/22 18:00	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/07/22 18:00	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/07/22 18:00	1
Toluene	2.6		0.50	0.15	ug/L			11/07/22 18:00	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/07/22 18:00	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/07/22 18:00	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-5
Date Collected: 10/26/22 08:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-18
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/07/22 18:00	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/07/22 18:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/07/22 18:00	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/07/22 18:00	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/07/22 18:00	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/07/22 18:00	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/07/22 18:00	1
1,3,5-Trimethylbenzene	83		1.0	0.25	ug/L			11/07/22 18:00	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/07/22 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124					11/07/22 18:00	1
Dibromofluoromethane (Surr)	91		75 - 120					11/07/22 18:00	1
1,2-Dichloroethane-d4 (Surr)	106		75 - 126					11/07/22 18:00	1
Toluene-d8 (Surr)	105		75 - 120					11/07/22 18:00	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	390	B	5.0	1.8	ug/L			11/04/22 20:29	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			11/04/22 20:29	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124					11/04/22 20:29	5
Dibromofluoromethane (Surr)	98		75 - 120					11/04/22 20:29	5
1,2-Dichloroethane-d4 (Surr)	96		75 - 126					11/04/22 20:29	5
Toluene-d8 (Surr)	93		75 - 120					11/04/22 20:29	5

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<12		25	12	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluoropentanoic acid (PFPeA)	<2.5		10	2.5	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorohexanoic acid (PFHxA)	26		10	2.9	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluoroheptanoic acid (PFHpA)	110		10	1.3	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorononanoic acid (PFNA)	<1.4		10	1.4	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorodecanoic acid (PFDA)	<1.6		10	1.6	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluoroundecanoic acid (PFUnA)	<5.5		10	5.5	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorododecanoic acid (PFDoA)	<2.8		10	2.8	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorotridecanoic acid (PFTriA)	<6.5		10	6.5	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorotetradecanoic acid (PFTeA)	<3.7		10	3.7	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorobutanesulfonic acid (PFBS)	<1.0		10	1.0	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5		10	1.5	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorohexanesulfonic acid (PFHxS)	<2.9		10	2.9	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.95		10	0.95	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorooctanesulfonic acid (PFOS)	<2.7		10	2.7	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorononanesulfonic acid (PFNS)	<1.9		10	1.9	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		10	1.6	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorododecanesulfonic acid (PFDoS)	<4.9		10	4.9	ng/L		10/31/22 05:09	11/06/22 11:54	1
Perfluorooctanesulfonamide (FOSA)	<4.9		10	4.9	ng/L		10/31/22 05:09	11/06/22 11:54	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-5
Date Collected: 10/26/22 08:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-18
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<4.4		10	4.4	ng/L		10/31/22 05:09	11/06/22 11:54	1
NMeFOSA	<2.2		10	2.2	ng/L		10/31/22 05:09	11/06/22 11:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<6.0		25	6.0	ng/L		10/31/22 05:09	11/06/22 11:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<6.5		25	6.5	ng/L		10/31/22 05:09	11/06/22 11:54	1
NMeFOSE	<7.0		20	7.0	ng/L		10/31/22 05:09	11/06/22 11:54	1
NEtFOSE	<4.3		10	4.3	ng/L		10/31/22 05:09	11/06/22 11:54	1
4:2 FTS	<1.2		10	1.2	ng/L		10/31/22 05:09	11/06/22 11:54	1
6:2 FTS	<13		25	13	ng/L		10/31/22 05:09	11/06/22 11:54	1
8:2 FTS	<2.3		10	2.3	ng/L		10/31/22 05:09	11/06/22 11:54	1
DONA	<2.0		10	2.0	ng/L		10/31/22 05:09	11/06/22 11:54	1
HFPO-DA (GenX)	<7.5		20	7.5	ng/L		10/31/22 05:09	11/06/22 11:54	1
F-53B Major	<1.2		10	1.2	ng/L		10/31/22 05:09	11/06/22 11:54	1
F-53B Minor	<1.6		10	1.6	ng/L		10/31/22 05:09	11/06/22 11:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	68		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C5 PFPeA	80		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C2 PFHxA	95		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C4 PFHpA	106		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C5 PFNA	101		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C2 PFDA	110		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C2 PFUnA	115		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C2 PFDoA	117		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C2 PFTeDA	117		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C3 PFBS	105		25 - 150	10/31/22 05:09	11/06/22 11:54	1
18O2 PFHxS	117		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C4 PFOS	101		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C8 FOSA	117		10 - 150	10/31/22 05:09	11/06/22 11:54	1
d3-NMeFOSAA	100		25 - 150	10/31/22 05:09	11/06/22 11:54	1
d5-NEtFOSAA	104		25 - 150	10/31/22 05:09	11/06/22 11:54	1
d-N-MeFOSA-M	97		10 - 150	10/31/22 05:09	11/06/22 11:54	1
d-N-EtFOSA-M	98		10 - 150	10/31/22 05:09	11/06/22 11:54	1
d7-N-MeFOSE-M	102		10 - 150	10/31/22 05:09	11/06/22 11:54	1
d9-N-EtFOSE-M	103		10 - 150	10/31/22 05:09	11/06/22 11:54	1
M2-4:2 FTS	124		25 - 150	10/31/22 05:09	11/06/22 11:54	1
M2-6:2 FTS	95		25 - 150	10/31/22 05:09	11/06/22 11:54	1
M2-8:2 FTS	102		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C3 HFPO-DA	98		25 - 150	10/31/22 05:09	11/06/22 11:54	1
13C2 10:2 FTS	103		25 - 150	10/31/22 05:09	11/06/22 11:54	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	6300		50	21	ng/L		10/31/22 05:09	11/10/22 03:49	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFOA	98		25 - 150	10/31/22 05:09	11/10/22 03:49	5			

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-220

Lab Sample ID: 500-224562-19

Date Collected: 10/26/22 09:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.4	J	4.9	2.4	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluoroheptanoic acid (PFHpA)	2.7		2.0	0.25	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorooctanoic acid (PFOA)	140		2.0	0.83	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		2.0	0.29	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		10/31/22 05:09	11/06/22 12:04	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		10/31/22 05:09	11/06/22 12:04	1
NEtFOSA	<0.85		2.0	0.85	ng/L		10/31/22 05:09	11/06/22 12:04	1
NMeFOSA	<0.42		2.0	0.42	ng/L		10/31/22 05:09	11/06/22 12:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		10/31/22 05:09	11/06/22 12:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		10/31/22 05:09	11/06/22 12:04	1
NMeFOSE	<1.4		3.9	1.4	ng/L		10/31/22 05:09	11/06/22 12:04	1
NEtFOSE	<0.83		2.0	0.83	ng/L		10/31/22 05:09	11/06/22 12:04	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 05:09	11/06/22 12:04	1
6:2 FTS	<2.5		4.9	2.5	ng/L		10/31/22 05:09	11/06/22 12:04	1
8:2 FTS	<0.45		2.0	0.45	ng/L		10/31/22 05:09	11/06/22 12:04	1
DONA	<0.39		2.0	0.39	ng/L		10/31/22 05:09	11/06/22 12:04	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		10/31/22 05:09	11/06/22 12:04	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 05:09	11/06/22 12:04	1
F-53B Minor	<0.31		2.0	0.31	ng/L		10/31/22 05:09	11/06/22 12:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	46		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C5 PFPeA	60		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C2 PFHxA	79		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C4 PFHpA	89		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C4 PFOA	93		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C5 PFNA	92		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C2 PFDA	100		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C2 PFUnA	97		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C2 PFDoA	100		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C2 PFTeDA	96		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C3 PFBS	86		25 - 150	10/31/22 05:09	11/06/22 12:04	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-220

Lab Sample ID: 500-224562-19

Date Collected: 10/26/22 09:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	98		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C4 PFOS	91		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C8 FOSA	102		10 - 150	10/31/22 05:09	11/06/22 12:04	1
d3-NMeFOSAA	87		25 - 150	10/31/22 05:09	11/06/22 12:04	1
d5-NEtFOSAA	92		25 - 150	10/31/22 05:09	11/06/22 12:04	1
d-N-MeFOSA-M	84		10 - 150	10/31/22 05:09	11/06/22 12:04	1
d-N-EtFOSA-M	84		10 - 150	10/31/22 05:09	11/06/22 12:04	1
d7-N-MeFOSE-M	89		10 - 150	10/31/22 05:09	11/06/22 12:04	1
d9-N-EtFOSE-M	86		10 - 150	10/31/22 05:09	11/06/22 12:04	1
M2-4:2 FTS	120		25 - 150	10/31/22 05:09	11/06/22 12:04	1
M2-6:2 FTS	116		25 - 150	10/31/22 05:09	11/06/22 12:04	1
M2-8:2 FTS	105		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C3 HFPO-DA	76		25 - 150	10/31/22 05:09	11/06/22 12:04	1
13C2 10:2 FTS	87		25 - 150	10/31/22 05:09	11/06/22 12:04	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-16

Lab Sample ID: 500-224562-20

Date Collected: 10/26/22 10:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 21:22	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 21:22	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 21:22	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 21:22	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 21:22	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 21:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 21:22	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 21:22	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 21:22	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 21:22	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 21:22	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 21:22	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 21:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 21:22	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 21:22	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 21:22	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 21:22	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 21:22	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 21:22	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 21:22	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 21:22	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 21:22	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 21:22	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 21:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 21:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 21:22	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 21:22	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 21:22	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 21:22	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 21:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 21:22	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 21:22	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 21:22	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 21:22	1
Methylene Chloride	1.9 J		5.0	1.6	ug/L			11/04/22 21:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 21:22	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 21:22	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 21:22	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 21:22	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 21:22	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 21:22	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 21:22	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 21:22	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 21:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 21:22	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 21:22	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 21:22	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 21:22	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 21:22	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-16

Lab Sample ID: 500-224562-20

Date Collected: 10/26/22 10:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 21:22	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 21:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 21:22	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 21:22	1
Trichloroethene	1.1		0.50	0.16	ug/L			11/04/22 21:22	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 21:22	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 21:22	1
1,2,4-Trimethylbenzene	0.76	J B	1.0	0.36	ug/L			11/04/22 21:22	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/22 21:22	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 21:22	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124		11/04/22 21:22	1
Dibromofluoromethane (Surr)	96		75 - 120		11/04/22 21:22	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		11/04/22 21:22	1
Toluene-d8 (Surr)	92		75 - 120		11/04/22 21:22	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	14		4.7	2.2	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluoropentanoic acid (PFPeA)	3.4		1.9	0.46	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorohexanoic acid (PFHxA)	7.1		1.9	0.54	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluoroheptanoic acid (PFHpA)	6.3		1.9	0.23	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorooctanoic acid (PFOA)	170		1.9	0.79	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorononanoic acid (PFNA)	0.43	J	1.9	0.25	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorohexanesulfonic acid (PFHxS)	1.6	J	1.9	0.53	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorooctanesulfonic acid (PFOS)	5.0		1.9	0.50	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/31/22 05:09	11/06/22 12:14	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 05:09	11/06/22 12:14	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 05:09	11/06/22 12:14	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 05:09	11/06/22 12:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 05:09	11/06/22 12:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 05:09	11/06/22 12:14	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 05:09	11/06/22 12:14	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-16

Lab Sample ID: 500-224562-20

Date Collected: 10/26/22 10:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 05:09	11/06/22 12:14	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 05:09	11/06/22 12:14	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/31/22 05:09	11/06/22 12:14	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 05:09	11/06/22 12:14	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 05:09	11/06/22 12:14	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 05:09	11/06/22 12:14	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 05:09	11/06/22 12:14	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 05:09	11/06/22 12:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	66		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C5 PFPeA	81		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C2 PFHxA	90		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C4 PFHpA	90		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C4 PFOA	94		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C5 PFNA	89		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C2 PFDA	91		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C2 PFUnA	89		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C2 PFDoA	90		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C2 PFTeDA	89		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C3 PFBS	92		25 - 150				10/31/22 05:09	11/06/22 12:14	1
18O2 PFHxS	97		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C4 PFOS	83		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C8 FOSA	94		10 - 150				10/31/22 05:09	11/06/22 12:14	1
d3-NMeFOSAA	80		25 - 150				10/31/22 05:09	11/06/22 12:14	1
d5-NEtFOSAA	86		25 - 150				10/31/22 05:09	11/06/22 12:14	1
d-N-MeFOSA-M	81		10 - 150				10/31/22 05:09	11/06/22 12:14	1
d-N-EtFOSA-M	80		10 - 150				10/31/22 05:09	11/06/22 12:14	1
d7-N-MeFOSE-M	83		10 - 150				10/31/22 05:09	11/06/22 12:14	1
d9-N-EtFOSE-M	84		10 - 150				10/31/22 05:09	11/06/22 12:14	1
M2-4:2 FTS	97		25 - 150				10/31/22 05:09	11/06/22 12:14	1
M2-6:2 FTS	82		25 - 150				10/31/22 05:09	11/06/22 12:14	1
M2-8:2 FTS	75		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C3 HFPO-DA	88		25 - 150				10/31/22 05:09	11/06/22 12:14	1
13C2 10:2 FTS	71		25 - 150				10/31/22 05:09	11/06/22 12:14	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-15

Lab Sample ID: 500-224562-21

Date Collected: 10/26/22 11:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.73		2.5	0.73	ug/L			11/04/22 21:48	5
Bromobenzene	<1.8		5.0	1.8	ug/L			11/04/22 21:48	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			11/04/22 21:48	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			11/04/22 21:48	5
Bromoform	<2.4		5.0	2.4	ug/L			11/04/22 21:48	5
Bromomethane	<4.0		15	4.0	ug/L			11/04/22 21:48	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			11/04/22 21:48	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			11/04/22 21:48	5
Chloroethane	<2.5		5.0	2.5	ug/L			11/04/22 21:48	5
Chloroform	<1.9		10	1.9	ug/L			11/04/22 21:48	5
Chloromethane	<1.6		5.0	1.6	ug/L			11/04/22 21:48	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			11/04/22 21:48	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			11/04/22 21:48	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			11/04/22 21:48	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			11/04/22 21:48	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			11/04/22 21:48	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			11/04/22 21:48	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			11/04/22 21:48	5
Dibromomethane	<1.4		5.0	1.4	ug/L			11/04/22 21:48	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			11/04/22 21:48	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			11/04/22 21:48	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			11/04/22 21:48	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			11/04/22 21:48	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			11/04/22 21:48	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			11/04/22 21:48	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			11/04/22 21:48	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			11/04/22 21:48	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			11/04/22 21:48	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			11/04/22 21:48	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			11/04/22 21:48	5
Ethylbenzene	59		2.5	0.92	ug/L			11/04/22 21:48	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			11/04/22 21:48	5
Isopropylbenzene	48		5.0	1.9	ug/L			11/04/22 21:48	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			11/04/22 21:48	5
Methylene Chloride	<8.2		25	8.2	ug/L			11/04/22 21:48	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			11/04/22 21:48	5
Naphthalene	200		5.0	1.7	ug/L			11/04/22 21:48	5
n-Butylbenzene	53 B		5.0	1.9	ug/L			11/04/22 21:48	5
N-Propylbenzene	62 B		5.0	2.1	ug/L			11/04/22 21:48	5
p-Isopropyltoluene	50 B		5.0	1.8	ug/L			11/04/22 21:48	5
sec-Butylbenzene	25 B		5.0	2.0	ug/L			11/04/22 21:48	5
Styrene	<1.9		5.0	1.9	ug/L			11/04/22 21:48	5
tert-Butylbenzene	11		5.0	2.0	ug/L			11/04/22 21:48	5
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			11/04/22 21:48	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			11/04/22 21:48	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			11/04/22 21:48	5
Toluene	0.98 J		2.5	0.76	ug/L			11/04/22 21:48	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			11/04/22 21:48	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			11/04/22 21:48	5

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-15

Lab Sample ID: 500-224562-21

Date Collected: 10/26/22 11:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			11/04/22 21:48	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			11/04/22 21:48	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			11/04/22 21:48	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			11/04/22 21:48	5
Trichloroethene	<0.82		2.5	0.82	ug/L			11/04/22 21:48	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			11/04/22 21:48	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			11/04/22 21:48	5
1,3,5-Trimethylbenzene	460	B	5.0	1.3	ug/L			11/04/22 21:48	5
Vinyl chloride	<1.0		5.0	1.0	ug/L			11/04/22 21:48	5
Xylenes, Total	580		5.0	1.1	ug/L			11/04/22 21:48	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		72 - 124		11/04/22 21:48	5
Dibromofluoromethane (Surr)	97		75 - 120		11/04/22 21:48	5
1,2-Dichloroethane-d4 (Surr)	95		75 - 126		11/04/22 21:48	5
Toluene-d8 (Surr)	91		75 - 120		11/04/22 21:48	5

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1500	B	50	18	ug/L			11/04/22 22:15	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124		11/04/22 22:15	50
Dibromofluoromethane (Surr)	95		75 - 120		11/04/22 22:15	50
1,2-Dichloroethane-d4 (Surr)	92		75 - 126		11/04/22 22:15	50
Toluene-d8 (Surr)	93		75 - 120		11/04/22 22:15	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<12		25	12	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluoropentanoic acid (PFPeA)	<2.5		10	2.5	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorohexanoic acid (PFHxA)	47		10	2.9	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluoroheptanoic acid (PFHpA)	180		10	1.3	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorononanoic acid (PFNA)	<1.4		10	1.4	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorodecanoic acid (PFDA)	<1.6		10	1.6	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluoroundecanoic acid (PFUnA)	<5.5		10	5.5	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorododecanoic acid (PFDoA)	<2.8		10	2.8	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorotridecanoic acid (PFTriA)	<6.5		10	6.5	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorotetradecanoic acid (PFTeA)	<3.7		10	3.7	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorobutanesulfonic acid (PFBS)	<1.0		10	1.0	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5		10	1.5	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorohexanesulfonic acid (PFHxS)	<2.9		10	2.9	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.95		10	0.95	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorooctanesulfonic acid (PFOS)	<2.7		10	2.7	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorononanesulfonic acid (PFNS)	<1.9		10	1.9	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		10	1.6	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorododecanesulfonic acid (PFDoS)	<4.9		10	4.9	ng/L		10/31/22 05:09	11/06/22 12:54	1
Perfluorooctanesulfonamide (FOSA)	<4.9		10	4.9	ng/L		10/31/22 05:09	11/06/22 12:54	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-15

Lab Sample ID: 500-224562-21

Date Collected: 10/26/22 11:10

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<4.4		10	4.4	ng/L		10/31/22 05:09	11/06/22 12:54	1
NMeFOSA	<2.2		10	2.2	ng/L		10/31/22 05:09	11/06/22 12:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<6.0		25	6.0	ng/L		10/31/22 05:09	11/06/22 12:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<6.5		25	6.5	ng/L		10/31/22 05:09	11/06/22 12:54	1
NMeFOSE	<7.0		20	7.0	ng/L		10/31/22 05:09	11/06/22 12:54	1
NEtFOSE	<4.3		10	4.3	ng/L		10/31/22 05:09	11/06/22 12:54	1
6:2 FTS	<13		25	13	ng/L		10/31/22 05:09	11/06/22 12:54	1
8:2 FTS	<2.3		10	2.3	ng/L		10/31/22 05:09	11/06/22 12:54	1
DONA	<2.0		10	2.0	ng/L		10/31/22 05:09	11/06/22 12:54	1
HFPO-DA (GenX)	<7.5		20	7.5	ng/L		10/31/22 05:09	11/06/22 12:54	1
F-53B Major	<1.2		10	1.2	ng/L		10/31/22 05:09	11/06/22 12:54	1
F-53B Minor	<1.6		10	1.6	ng/L		10/31/22 05:09	11/06/22 12:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	36		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C5 PFPeA	60		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C2 PFHxA	81		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C4 PFHpA	94		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C5 PFNA	105		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C2 PFDA	116		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C2 PFUnA	118		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C2 PFDoA	115		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C2 PFTeDA	109		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C3 PFBS	89		25 - 150	10/31/22 05:09	11/06/22 12:54	1
18O2 PFHxS	110		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C4 PFOS	105		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C8 FOSA	113		10 - 150	10/31/22 05:09	11/06/22 12:54	1
d3-NMeFOSAA	97		25 - 150	10/31/22 05:09	11/06/22 12:54	1
d5-NEtFOSAA	105		25 - 150	10/31/22 05:09	11/06/22 12:54	1
d-N-MeFOSA-M	99		10 - 150	10/31/22 05:09	11/06/22 12:54	1
d-N-EtFOSA-M	99		10 - 150	10/31/22 05:09	11/06/22 12:54	1
d7-N-MeFOSE-M	102		10 - 150	10/31/22 05:09	11/06/22 12:54	1
d9-N-EtFOSE-M	102		10 - 150	10/31/22 05:09	11/06/22 12:54	1
M2-6:2 FTS	141		25 - 150	10/31/22 05:09	11/06/22 12:54	1
M2-8:2 FTS	126		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C3 HFPO-DA	87		25 - 150	10/31/22 05:09	11/06/22 12:54	1
13C2 10:2 FTS	108		25 - 150	10/31/22 05:09	11/06/22 12:54	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	3200		50	21	ng/L		10/31/22 05:09	11/10/22 03:59	5
4:2 FTS	<6.0		50	6.0	ng/L		10/31/22 05:09	11/10/22 03:59	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFOA	96		25 - 150	10/31/22 05:09	11/10/22 03:59	5			
M2-4:2 FTS	136		25 - 150	10/31/22 05:09	11/10/22 03:59	5			

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-3
Date Collected: 10/26/22 11:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-22
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 22:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 22:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 22:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 22:41	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 22:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 22:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 22:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 22:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 22:41	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 22:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 22:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 22:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 22:41	1
cis-1,2-Dichloroethene	0.49	J	1.0	0.41	ug/L			11/04/22 22:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 22:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 22:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 22:41	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 22:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 22:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 22:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 22:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 22:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 22:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 22:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 22:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 22:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 22:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 22:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 22:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 22:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 22:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 22:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 22:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 22:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/22 22:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 22:41	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 22:41	1
n-Butylbenzene	0.64	J B	1.0	0.39	ug/L			11/04/22 22:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 22:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 22:41	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 22:41	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 22:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 22:41	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 22:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 22:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 22:41	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 22:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 22:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 22:41	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-3

Lab Sample ID: 500-224562-22

Date Collected: 10/26/22 11:55

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 22:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 22:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 22:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 22:41	1
Trichloroethene	5.6		0.50	0.16	ug/L			11/04/22 22:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 22:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 22:41	1
1,2,4-Trimethylbenzene	0.93	J B	1.0	0.36	ug/L			11/04/22 22:41	1
1,3,5-Trimethylbenzene	0.83	J B	1.0	0.25	ug/L			11/04/22 22:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 22:41	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 22:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		72 - 124					11/04/22 22:41	1
Dibromofluoromethane (Surr)	94		75 - 120					11/04/22 22:41	1
1,2-Dichloroethane-d4 (Surr)	94		75 - 126					11/04/22 22:41	1
Toluene-d8 (Surr)	93		75 - 120					11/04/22 22:41	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	38		4.6	2.2	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluoropentanoic acid (PFPeA)	7.1		1.8	0.45	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorohexanoic acid (PFHxA)	39		1.8	0.53	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluoroheptanoic acid (PFHpA)	110		1.8	0.23	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorononanoic acid (PFNA)	2.2		1.8	0.25	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.8	0.52	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/31/22 05:09	11/06/22 13:04	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/31/22 05:09	11/06/22 13:04	1
NEtFOSA	<0.80		1.8	0.80	ng/L		10/31/22 05:09	11/06/22 13:04	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 05:09	11/06/22 13:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 05:09	11/06/22 13:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 05:09	11/06/22 13:04	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 05:09	11/06/22 13:04	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/31/22 05:09	11/06/22 13:04	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-3

Lab Sample ID: 500-224562-22

Date Collected: 10/26/22 11:55

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 05:09	11/06/22 13:04	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 05:09	11/06/22 13:04	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 05:09	11/06/22 13:04	1
DONA	<0.37		1.8	0.37	ng/L		10/31/22 05:09	11/06/22 13:04	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 05:09	11/06/22 13:04	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 05:09	11/06/22 13:04	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 05:09	11/06/22 13:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	30		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C5 PFPeA	54		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C2 PFHxA	78		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C4 PFHpA	92		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C5 PFNA	99		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C2 PFDA	108		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C2 PFUnA	106		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C2 PFDoA	113		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C2 PFTeDA	106		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C3 PFBS	89		25 - 150	10/31/22 05:09	11/06/22 13:04	1
18O2 PFHxS	99		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C4 PFOS	90		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C8 FOSA	103		10 - 150	10/31/22 05:09	11/06/22 13:04	1
d3-NMeFOSAA	98		25 - 150	10/31/22 05:09	11/06/22 13:04	1
d5-NEtFOSAA	108		25 - 150	10/31/22 05:09	11/06/22 13:04	1
d-N-MeFOSA-M	90		10 - 150	10/31/22 05:09	11/06/22 13:04	1
d-N-EtFOSA-M	93		10 - 150	10/31/22 05:09	11/06/22 13:04	1
d7-N-MeFOSE-M	100		10 - 150	10/31/22 05:09	11/06/22 13:04	1
d9-N-EtFOSE-M	96		10 - 150	10/31/22 05:09	11/06/22 13:04	1
M2-4:2 FTS	118		25 - 150	10/31/22 05:09	11/06/22 13:04	1
M2-6:2 FTS	85		25 - 150	10/31/22 05:09	11/06/22 13:04	1
M2-8:2 FTS	112		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C3 HFPO-DA	83		25 - 150	10/31/22 05:09	11/06/22 13:04	1
13C2 10:2 FTS	99		25 - 150	10/31/22 05:09	11/06/22 13:04	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	4100		37	16	ng/L		10/31/22 05:09	11/15/22 15:58	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	82		25 - 150	10/31/22 05:09	11/15/22 15:58	20

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-8
Date Collected: 10/26/22 12:40
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-23
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 23:08	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 23:08	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 23:08	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 23:08	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 23:08	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 23:08	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 23:08	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 23:08	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 23:08	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 23:08	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 23:08	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 23:08	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 23:08	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 23:08	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 23:08	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 23:08	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 23:08	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 23:08	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 23:08	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 23:08	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 23:08	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 23:08	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 23:08	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 23:08	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 23:08	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 23:08	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 23:08	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 23:08	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 23:08	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 23:08	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 23:08	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 23:08	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 23:08	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 23:08	1
Methylene Chloride	1.7 J		5.0	1.6	ug/L			11/04/22 23:08	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 23:08	1
Naphthalene	0.75 J		1.0	0.34	ug/L			11/04/22 23:08	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 23:08	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 23:08	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 23:08	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 23:08	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 23:08	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 23:08	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 23:08	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 23:08	1
Tetrachloroethene	0.96 J		1.0	0.37	ug/L			11/04/22 23:08	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 23:08	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 23:08	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 23:08	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-8
Date Collected: 10/26/22 12:40
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-23
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 23:08	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 23:08	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 23:08	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 23:08	1
Trichloroethene	1.7		0.50	0.16	ug/L			11/04/22 23:08	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 23:08	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 23:08	1
1,2,4-Trimethylbenzene	0.83	J B	1.0	0.36	ug/L			11/04/22 23:08	1
1,3,5-Trimethylbenzene	0.79	J B	1.0	0.25	ug/L			11/04/22 23:08	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 23:08	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		72 - 124					11/04/22 23:08	1
Dibromofluoromethane (Surr)	95		75 - 120					11/04/22 23:08	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 126					11/04/22 23:08	1
Toluene-d8 (Surr)	92		75 - 120					11/04/22 23:08	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluoroheptanoic acid (PFHpA)	12		1.9	0.24	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorooctanesulfonic acid (PFOS)	6.2		1.9	0.51	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/31/22 05:09	11/06/22 13:15	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/31/22 05:09	11/06/22 13:15	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/31/22 05:09	11/06/22 13:15	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 05:09	11/06/22 13:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 05:09	11/06/22 13:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 05:09	11/06/22 13:15	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 05:09	11/06/22 13:15	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/31/22 05:09	11/06/22 13:15	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 05:09	11/06/22 13:15	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-8

Lab Sample ID: 500-224562-23

Date Collected: 10/26/22 12:40

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	<2.4		4.7	2.4	ng/L		10/31/22 05:09	11/06/22 13:15	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 05:09	11/06/22 13:15	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 05:09	11/06/22 13:15	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 05:09	11/06/22 13:15	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 05:09	11/06/22 13:15	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 05:09	11/06/22 13:15	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	33		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C2 PFHxA	64		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C4 PFHpA	85		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C5 PFNA	107		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C2 PFDA	129		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C2 PFUnA	141		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C2 PFDoA	146		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C2 PFTeDA	135		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C3 PFBS	80		25 - 150	10/31/22 05:09	11/06/22 13:15	1
18O2 PFHxS	121		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C4 PFOS	120		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C8 FOSA	119		10 - 150	10/31/22 05:09	11/06/22 13:15	1
d3-NMeFOSAA	100		25 - 150	10/31/22 05:09	11/06/22 13:15	1
d5-NEtFOSAA	117		25 - 150	10/31/22 05:09	11/06/22 13:15	1
d-N-MeFOSA-M	117		10 - 150	10/31/22 05:09	11/06/22 13:15	1
d-N-EtFOSA-M	115		10 - 150	10/31/22 05:09	11/06/22 13:15	1
d7-N-MeFOSE-M	128		10 - 150	10/31/22 05:09	11/06/22 13:15	1
d9-N-EtFOSE-M	126		10 - 150	10/31/22 05:09	11/06/22 13:15	1
M2-4:2 FTS	125		25 - 150	10/31/22 05:09	11/06/22 13:15	1
M2-6:2 FTS	165	*5+	25 - 150	10/31/22 05:09	11/06/22 13:15	1
M2-8:2 FTS	173	*5+	25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C3 HFPO-DA	75		25 - 150	10/31/22 05:09	11/06/22 13:15	1
13C2 10:2 FTS	145		25 - 150	10/31/22 05:09	11/06/22 13:15	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<11		24	11	ng/L		10/31/22 05:09	11/10/22 04:09	5
Perfluorooctanoic acid (PFOA)	700		9.4	4.0	ng/L		10/31/22 05:09	11/10/22 04:09	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	36		25 - 150	10/31/22 05:09	11/10/22 04:09	5			
13C4 PFOA	96		25 - 150	10/31/22 05:09	11/10/22 04:09	5			

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-7
Date Collected: 10/26/22 13:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-24
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorohexanoic acid (PFHxA)	11		1.8	0.53	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluoroheptanoic acid (PFHpA)	44		1.8	0.23	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorononanoic acid (PFNA)	1.6 J		1.8	0.25	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorohexanesulfonic acid (PFHxS)	0.95 J		1.8	0.52	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorooctanesulfonic acid (PFOS)	3.8		1.8	0.49	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/31/22 05:09	11/06/22 13:25	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/31/22 05:09	11/06/22 13:25	1
NEtFOSA	<0.80		1.8	0.80	ng/L		10/31/22 05:09	11/06/22 13:25	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 05:09	11/06/22 13:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 05:09	11/06/22 13:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 05:09	11/06/22 13:25	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 05:09	11/06/22 13:25	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/31/22 05:09	11/06/22 13:25	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 05:09	11/06/22 13:25	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 05:09	11/06/22 13:25	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 05:09	11/06/22 13:25	1
DONA	<0.37		1.8	0.37	ng/L		10/31/22 05:09	11/06/22 13:25	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 05:09	11/06/22 13:25	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 05:09	11/06/22 13:25	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 05:09	11/06/22 13:25	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	36		25 - 150				10/31/22 05:09	11/06/22 13:25	1
13C5 PFPeA	60		25 - 150				10/31/22 05:09	11/06/22 13:25	1
13C2 PFHxA	71		25 - 150				10/31/22 05:09	11/06/22 13:25	1
13C4 PFHpA	90		25 - 150				10/31/22 05:09	11/06/22 13:25	1
13C4 PFOA	90		25 - 150				10/31/22 05:09	11/06/22 13:25	1
13C5 PFNA	109		25 - 150				10/31/22 05:09	11/06/22 13:25	1
13C2 PFDA	123		25 - 150				10/31/22 05:09	11/06/22 13:25	1
13C2 PFUnA	130		25 - 150				10/31/22 05:09	11/06/22 13:25	1
13C2 PFDoA	135		25 - 150				10/31/22 05:09	11/06/22 13:25	1
13C2 PFTeDA	133		25 - 150				10/31/22 05:09	11/06/22 13:25	1
13C3 PFBS	97		25 - 150				10/31/22 05:09	11/06/22 13:25	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-7

Lab Sample ID: 500-224562-24

Date Collected: 10/26/22 13:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	115		25 - 150	10/31/22 05:09	11/06/22 13:25	1
13C4 PFOS	109		25 - 150	10/31/22 05:09	11/06/22 13:25	1
13C8 FOSA	115		10 - 150	10/31/22 05:09	11/06/22 13:25	1
d3-NMeFOSAA	99		25 - 150	10/31/22 05:09	11/06/22 13:25	1
d5-NEtFOSAA	118		25 - 150	10/31/22 05:09	11/06/22 13:25	1
d-N-MeFOSA-M	114		10 - 150	10/31/22 05:09	11/06/22 13:25	1
d-N-EtFOSA-M	110		10 - 150	10/31/22 05:09	11/06/22 13:25	1
d7-N-MeFOSE-M	118		10 - 150	10/31/22 05:09	11/06/22 13:25	1
d9-N-EtFOSE-M	122		10 - 150	10/31/22 05:09	11/06/22 13:25	1
M2-4:2 FTS	117		25 - 150	10/31/22 05:09	11/06/22 13:25	1
M2-6:2 FTS	133		25 - 150	10/31/22 05:09	11/06/22 13:25	1
M2-8:2 FTS	165	*5+	25 - 150	10/31/22 05:09	11/06/22 13:25	1
13C3 HFPO-DA	88		25 - 150	10/31/22 05:09	11/06/22 13:25	1
13C2 10:2 FTS	152	*5+	25 - 150	10/31/22 05:09	11/06/22 13:25	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorooctanoic acid (PFOA)	2500		18	7.8	ng/L		10/31/22 05:09	11/10/22 04:29	10

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOA	95		25 - 150	10/31/22 05:09	11/10/22 04:29	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: PZ-214

Lab Sample ID: 500-224562-25

Date Collected: 10/26/22 14:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluoroheptanoic acid (PFHpA)	2.0		1.8	0.23	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorooctanoic acid (PFOA)	39		1.8	0.78	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/31/22 05:09	11/06/22 13:35	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/31/22 05:09	11/06/22 13:35	1
NEtFOSA	<0.80		1.8	0.80	ng/L		10/31/22 05:09	11/06/22 13:35	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 05:09	11/06/22 13:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/31/22 05:09	11/06/22 13:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/31/22 05:09	11/06/22 13:35	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 05:09	11/06/22 13:35	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/31/22 05:09	11/06/22 13:35	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 05:09	11/06/22 13:35	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/31/22 05:09	11/06/22 13:35	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/31/22 05:09	11/06/22 13:35	1
DONA	<0.37		1.8	0.37	ng/L		10/31/22 05:09	11/06/22 13:35	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 05:09	11/06/22 13:35	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 05:09	11/06/22 13:35	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 05:09	11/06/22 13:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	53		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C5 PFPeA	72		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C2 PFHxA	89		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C4 PFHpA	95		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C4 PFOA	94		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C5 PFNA	94		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C2 PFDA	98		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C2 PFUnA	99		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C2 PFDoA	99		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C2 PFTeDA	93		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C3 PFBS	88		25 - 150	10/31/22 05:09	11/06/22 13:35	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: PZ-214
Date Collected: 10/26/22 14:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-25
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	94		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C4 PFOS	85		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C8 FOSA	98		10 - 150	10/31/22 05:09	11/06/22 13:35	1
d3-NMeFOSAA	83		25 - 150	10/31/22 05:09	11/06/22 13:35	1
d5-NEtFOSAA	91		25 - 150	10/31/22 05:09	11/06/22 13:35	1
d-N-MeFOSA-M	84		10 - 150	10/31/22 05:09	11/06/22 13:35	1
d-N-EtFOSA-M	81		10 - 150	10/31/22 05:09	11/06/22 13:35	1
d7-N-MeFOSE-M	83		10 - 150	10/31/22 05:09	11/06/22 13:35	1
d9-N-EtFOSE-M	83		10 - 150	10/31/22 05:09	11/06/22 13:35	1
M2-4:2 FTS	99		25 - 150	10/31/22 05:09	11/06/22 13:35	1
M2-6:2 FTS	99		25 - 150	10/31/22 05:09	11/06/22 13:35	1
M2-8:2 FTS	97		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C3 HFPO-DA	83		25 - 150	10/31/22 05:09	11/06/22 13:35	1
13C2 10:2 FTS	99		25 - 150	10/31/22 05:09	11/06/22 13:35	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-31

Lab Sample ID: 500-224562-26

Date Collected: 10/26/22 15:35

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 23:34	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 23:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 23:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 23:34	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 23:34	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 23:34	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 23:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 23:34	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 23:34	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 23:34	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 23:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 23:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 23:34	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 23:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 23:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 23:34	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 23:34	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 23:34	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 23:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 23:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 23:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 23:34	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 23:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 23:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 23:34	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 23:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 23:34	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 23:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 23:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 23:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 23:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 23:34	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 23:34	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 23:34	1
Methylene Chloride	1.7 J		5.0	1.6	ug/L			11/04/22 23:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 23:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 23:34	1
n-Butylbenzene	0.65 J B		1.0	0.39	ug/L			11/04/22 23:34	1
N-Propylbenzene	0.62 J B		1.0	0.41	ug/L			11/04/22 23:34	1
p-Isopropyltoluene	0.94 J B		1.0	0.36	ug/L			11/04/22 23:34	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 23:34	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 23:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 23:34	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 23:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 23:34	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 23:34	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 23:34	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 23:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 23:34	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-31

Lab Sample ID: 500-224562-26

Date Collected: 10/26/22 15:35

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 23:34	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 23:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 23:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 23:34	1
Trichloroethene	3.4		0.50	0.16	ug/L			11/04/22 23:34	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 23:34	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 23:34	1
1,2,4-Trimethylbenzene	0.86	J B	1.0	0.36	ug/L			11/04/22 23:34	1
1,3,5-Trimethylbenzene	0.83	J B	1.0	0.25	ug/L			11/04/22 23:34	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 23:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 23:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124					11/04/22 23:34	1
Dibromofluoromethane (Surr)	95		75 - 120					11/04/22 23:34	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 126					11/04/22 23:34	1
Toluene-d8 (Surr)	93		75 - 120					11/04/22 23:34	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<11		23	11	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluoropentanoic acid (PFPeA)	<2.3		9.3	2.3	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorohexanoic acid (PFHxA)	<2.7		9.3	2.7	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluoroheptanoic acid (PFHpA)	75		9.3	1.2	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorononanoic acid (PFNA)	<1.3		9.3	1.3	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorodecanoic acid (PFDA)	<1.4		9.3	1.4	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluoroundecanoic acid (PFUnA)	<5.1		9.3	5.1	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorododecanoic acid (PFDoA)	<2.6		9.3	2.6	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorotridecanoic acid (PFTriA)	<6.0		9.3	6.0	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorotetradecanoic acid (PFTeA)	<3.4		9.3	3.4	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorobutanesulfonic acid (PFBS)	<0.93		9.3	0.93	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluoropentanesulfonic acid (PFPeS)	<1.4		9.3	1.4	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorohexanesulfonic acid (PFHxS)	<2.6		9.3	2.6	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluoroheptanesulfonic acid (PFHpS)	<0.88		9.3	0.88	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorooctanesulfonic acid (PFOS)	<2.5		9.3	2.5	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorononanesulfonic acid (PFNS)	<1.7		9.3	1.7	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorodecanesulfonic acid (PFDS)	<1.5		9.3	1.5	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorododecanesulfonic acid (PFDoS)	<4.5		9.3	4.5	ng/L		10/31/22 05:09	11/10/22 04:40	5
Perfluorooctanesulfonamide (FOSA)	<4.5		9.3	4.5	ng/L		10/31/22 05:09	11/10/22 04:40	5
NEtFOSA	<4.0		9.3	4.0	ng/L		10/31/22 05:09	11/10/22 04:40	5
NMeFOSA	<2.0		9.3	2.0	ng/L		10/31/22 05:09	11/10/22 04:40	5
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<5.6		23	5.6	ng/L		10/31/22 05:09	11/10/22 04:40	5
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<6.0		23	6.0	ng/L		10/31/22 05:09	11/10/22 04:40	5
NMeFOSE	<6.5		19	6.5	ng/L		10/31/22 05:09	11/10/22 04:40	5
NEtFOSE	<3.9		9.3	3.9	ng/L		10/31/22 05:09	11/10/22 04:40	5
4:2 FTS	<1.1		9.3	1.1	ng/L		10/31/22 05:09	11/10/22 04:40	5

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-31

Lab Sample ID: 500-224562-26

Date Collected: 10/26/22 15:35

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	<12		23	12	ng/L		10/31/22 05:09	11/10/22 04:40	5
8:2 FTS	<2.1		9.3	2.1	ng/L		10/31/22 05:09	11/10/22 04:40	5
DONA	<1.9		9.3	1.9	ng/L		10/31/22 05:09	11/10/22 04:40	5
HFPO-DA (GenX)	<7.0		19	7.0	ng/L		10/31/22 05:09	11/10/22 04:40	5
F-53B Major	<1.1		9.3	1.1	ng/L		10/31/22 05:09	11/10/22 04:40	5
F-53B Minor	<1.5		9.3	1.5	ng/L		10/31/22 05:09	11/10/22 04:40	5

Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	35		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C5 PFPeA	54		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C2 PFHxA	82		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C4 PFHpA	91		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C4 PFOA	84		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C5 PFNA	95		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C2 PFDA	102		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C2 PFUnA	110		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C2 PFDoA	115		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C2 PFTeDA	92		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C3 PFBS	95		25 - 150				10/31/22 05:09	11/10/22 04:40	5
18O2 PFHxS	113		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C4 PFOS	110		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C8 FOSA	96		10 - 150				10/31/22 05:09	11/10/22 04:40	5
d3-NMeFOSAA	84		25 - 150				10/31/22 05:09	11/10/22 04:40	5
d5-NEtFOSAA	108		25 - 150				10/31/22 05:09	11/10/22 04:40	5
d-N-MeFOSA-M	99		10 - 150				10/31/22 05:09	11/10/22 04:40	5
d-N-EtFOSA-M	86		10 - 150				10/31/22 05:09	11/10/22 04:40	5
d7-N-MeFOSE-M	98		10 - 150				10/31/22 05:09	11/10/22 04:40	5
d9-N-EtFOSE-M	90		10 - 150				10/31/22 05:09	11/10/22 04:40	5
M2-4:2 FTS	206	*5+	25 - 150				10/31/22 05:09	11/10/22 04:40	5
M2-6:2 FTS	201	*5+	25 - 150				10/31/22 05:09	11/10/22 04:40	5
M2-8:2 FTS	206	*5+	25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C3 HFPO-DA	80		25 - 150				10/31/22 05:09	11/10/22 04:40	5
13C2 10:2 FTS	182	*5+	25 - 150				10/31/22 05:09	11/10/22 04:40	5

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	3500		19	7.9	ng/L		10/31/22 05:09	11/11/22 09:33	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	91		25 - 150				10/31/22 05:09	11/11/22 09:33	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-209

Lab Sample ID: 500-224562-27

Date Collected: 10/26/22 16:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/05/22 00:01	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/05/22 00:01	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/05/22 00:01	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/05/22 00:01	1
Bromoform	<0.48		1.0	0.48	ug/L			11/05/22 00:01	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/05/22 00:01	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/05/22 00:01	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/05/22 00:01	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/05/22 00:01	1
Chloroform	<0.37		2.0	0.37	ug/L			11/05/22 00:01	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/05/22 00:01	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/05/22 00:01	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/05/22 00:01	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/05/22 00:01	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/05/22 00:01	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/05/22 00:01	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/05/22 00:01	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/05/22 00:01	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/05/22 00:01	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/05/22 00:01	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/05/22 00:01	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/05/22 00:01	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/05/22 00:01	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/05/22 00:01	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/05/22 00:01	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/05/22 00:01	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/05/22 00:01	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/05/22 00:01	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/05/22 00:01	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/05/22 00:01	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/05/22 00:01	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/05/22 00:01	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/05/22 00:01	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/05/22 00:01	1
Methylene Chloride	1.6 J		5.0	1.6	ug/L			11/05/22 00:01	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/05/22 00:01	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/05/22 00:01	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/05/22 00:01	1
N-Propylbenzene	0.62 J B		1.0	0.41	ug/L			11/05/22 00:01	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/05/22 00:01	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/05/22 00:01	1
Styrene	<0.39		1.0	0.39	ug/L			11/05/22 00:01	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/05/22 00:01	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/05/22 00:01	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/05/22 00:01	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/05/22 00:01	1
Toluene	<0.15		0.50	0.15	ug/L			11/05/22 00:01	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/05/22 00:01	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/05/22 00:01	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-209

Lab Sample ID: 500-224562-27

Date Collected: 10/26/22 16:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/05/22 00:01	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/05/22 00:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/05/22 00:01	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/05/22 00:01	1
Trichloroethene	1.9		0.50	0.16	ug/L			11/05/22 00:01	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/05/22 00:01	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/05/22 00:01	1
1,2,4-Trimethylbenzene	0.88	J B	1.0	0.36	ug/L			11/05/22 00:01	1
1,3,5-Trimethylbenzene	0.82	J B	1.0	0.25	ug/L			11/05/22 00:01	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/05/22 00:01	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/05/22 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124					11/05/22 00:01	1
Dibromofluoromethane (Surr)	97		75 - 120					11/05/22 00:01	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 126					11/05/22 00:01	1
Toluene-d8 (Surr)	91		75 - 120					11/05/22 00:01	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.7		4.7	2.2	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluoropentanoic acid (PFPeA)	4.8		1.9	0.46	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorohexanoic acid (PFHxA)	4.1		1.9	0.54	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluoroheptanoic acid (PFHpA)	3.7		1.9	0.23	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorooctanoic acid (PFOA)	78		1.9	0.79	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorononanoic acid (PFNA)	0.56	J	1.9	0.25	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9	0.19	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorohexanesulfonic acid (PFHxS)	8.5		1.9	0.53	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorooctanesulfonic acid (PFOS)	16		1.9	0.50	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/31/22 05:09	11/06/22 13:55	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/31/22 05:09	11/06/22 13:55	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/31/22 05:09	11/06/22 13:55	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/31/22 05:09	11/06/22 13:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 05:09	11/06/22 13:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 05:09	11/06/22 13:55	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-209

Lab Sample ID: 500-224562-27

Date Collected: 10/26/22 16:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSE	<1.3		3.7	1.3	ng/L		10/31/22 05:09	11/06/22 13:55	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/31/22 05:09	11/06/22 13:55	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/31/22 05:09	11/06/22 13:55	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/31/22 05:09	11/06/22 13:55	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/31/22 05:09	11/06/22 13:55	1
DONA	<0.37		1.9	0.37	ng/L		10/31/22 05:09	11/06/22 13:55	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/31/22 05:09	11/06/22 13:55	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/31/22 05:09	11/06/22 13:55	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 05:09	11/06/22 13:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	58		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C5 PFPeA	74		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C2 PFHxA	86		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C4 PFHpA	96		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C4 PFOA	90		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C5 PFNA	89		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C2 PFDA	97		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C2 PFUnA	92		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C2 PFDoA	92		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C2 PFTeDA	87		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C3 PFBS	87		25 - 150				10/31/22 05:09	11/06/22 13:55	1
18O2 PFHxS	93		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C4 PFOS	86		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C8 FOSA	91		10 - 150				10/31/22 05:09	11/06/22 13:55	1
d3-NMeFOSAA	75		25 - 150				10/31/22 05:09	11/06/22 13:55	1
d5-NEtFOSAA	79		25 - 150				10/31/22 05:09	11/06/22 13:55	1
d-N-MeFOSA-M	76		10 - 150				10/31/22 05:09	11/06/22 13:55	1
d-N-EtFOSA-M	76		10 - 150				10/31/22 05:09	11/06/22 13:55	1
d7-N-MeFOSE-M	82		10 - 150				10/31/22 05:09	11/06/22 13:55	1
d9-N-EtFOSE-M	80		10 - 150				10/31/22 05:09	11/06/22 13:55	1
M2-4:2 FTS	88		25 - 150				10/31/22 05:09	11/06/22 13:55	1
M2-6:2 FTS	80		25 - 150				10/31/22 05:09	11/06/22 13:55	1
M2-8:2 FTS	82		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C3 HFPO-DA	87		25 - 150				10/31/22 05:09	11/06/22 13:55	1
13C2 10:2 FTS	74		25 - 150				10/31/22 05:09	11/06/22 13:55	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-209 DUP

Lab Sample ID: 500-224562-28

Date Collected: 10/26/22 16:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/05/22 00:28	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/05/22 00:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/05/22 00:28	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/05/22 00:28	1
Bromoform	<0.48		1.0	0.48	ug/L			11/05/22 00:28	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/05/22 00:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/05/22 00:28	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/05/22 00:28	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/05/22 00:28	1
Chloroform	<0.37		2.0	0.37	ug/L			11/05/22 00:28	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/05/22 00:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/05/22 00:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/05/22 00:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/05/22 00:28	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/05/22 00:28	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/05/22 00:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/05/22 00:28	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/05/22 00:28	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/05/22 00:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/05/22 00:28	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/05/22 00:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/05/22 00:28	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/05/22 00:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/05/22 00:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/05/22 00:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/05/22 00:28	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/05/22 00:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/05/22 00:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/05/22 00:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/05/22 00:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/05/22 00:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/05/22 00:28	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/05/22 00:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/05/22 00:28	1
Methylene Chloride	1.7 J		5.0	1.6	ug/L			11/05/22 00:28	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/05/22 00:28	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/05/22 00:28	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/05/22 00:28	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/05/22 00:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/05/22 00:28	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/05/22 00:28	1
Styrene	<0.39		1.0	0.39	ug/L			11/05/22 00:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/05/22 00:28	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/05/22 00:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/05/22 00:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/05/22 00:28	1
Toluene	<0.15		0.50	0.15	ug/L			11/05/22 00:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/05/22 00:28	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/05/22 00:28	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-209 DUP

Lab Sample ID: 500-224562-28

Date Collected: 10/26/22 16:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/05/22 00:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/05/22 00:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/05/22 00:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/05/22 00:28	1
Trichloroethene	1.9		0.50	0.16	ug/L			11/05/22 00:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/05/22 00:28	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/05/22 00:28	1
1,2,4-Trimethylbenzene	0.84	J B	1.0	0.36	ug/L			11/05/22 00:28	1
1,3,5-Trimethylbenzene	0.81	J B	1.0	0.25	ug/L			11/05/22 00:28	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/05/22 00:28	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/05/22 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		72 - 124					11/05/22 00:28	1
Dibromofluoromethane (Surr)	98		75 - 120					11/05/22 00:28	1
1,2-Dichloroethane-d4 (Surr)	97		75 - 126					11/05/22 00:28	1
Toluene-d8 (Surr)	92		75 - 120					11/05/22 00:28	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	10		4.7	2.3	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluoropentanoic acid (PFPeA)	3.2		1.9	0.46	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorohexanoic acid (PFHxA)	4.0		1.9	0.55	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluoroheptanoic acid (PFHpA)	4.6		1.9	0.24	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorooctanoic acid (PFOA)	79		1.9	0.80	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorononanoic acid (PFNA)	0.62	J	1.9	0.26	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorobutanesulfonic acid (PFBS)	2.3		1.9	0.19	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorohexanesulfonic acid (PFHxS)	8.7		1.9	0.54	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorooctanesulfonic acid (PFOS)	17		1.9	0.51	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/31/22 05:25	11/06/22 15:56	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		10/31/22 05:25	11/06/22 15:56	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/31/22 05:25	11/06/22 15:56	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 05:25	11/06/22 15:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 05:25	11/06/22 15:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 05:25	11/06/22 15:56	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-209 DUP

Lab Sample ID: 500-224562-28

Date Collected: 10/26/22 16:30

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 05:25	11/06/22 15:56	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/31/22 05:25	11/06/22 15:56	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 05:25	11/06/22 15:56	1
6:2 FTS	<2.4		4.7	2.4	ng/L		10/31/22 05:25	11/06/22 15:56	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 05:25	11/06/22 15:56	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 05:25	11/06/22 15:56	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 05:25	11/06/22 15:56	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 05:25	11/06/22 15:56	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 05:25	11/06/22 15:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	68		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C5 PFPeA	82		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C2 PFHxA	89		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C4 PFHpA	96		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C4 PFOA	91		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C5 PFNA	92		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C2 PFDA	100		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C2 PFUnA	99		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C2 PFDoA	94		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C2 PFTeDA	92		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C3 PFBS	97		25 - 150				10/31/22 05:25	11/06/22 15:56	1
18O2 PFHxS	94		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C4 PFOS	87		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C8 FOSA	99		10 - 150				10/31/22 05:25	11/06/22 15:56	1
d3-NMeFOSAA	90		25 - 150				10/31/22 05:25	11/06/22 15:56	1
d5-NEtFOSAA	90		25 - 150				10/31/22 05:25	11/06/22 15:56	1
d-N-MeFOSA-M	80		10 - 150				10/31/22 05:25	11/06/22 15:56	1
d-N-EtFOSA-M	81		10 - 150				10/31/22 05:25	11/06/22 15:56	1
d7-N-MeFOSE-M	82		10 - 150				10/31/22 05:25	11/06/22 15:56	1
d9-N-EtFOSE-M	86		10 - 150				10/31/22 05:25	11/06/22 15:56	1
M2-4:2 FTS	108		25 - 150				10/31/22 05:25	11/06/22 15:56	1
M2-6:2 FTS	89		25 - 150				10/31/22 05:25	11/06/22 15:56	1
M2-8:2 FTS	85		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C3 HFPO-DA	88		25 - 150				10/31/22 05:25	11/06/22 15:56	1
13C2 10:2 FTS	83		25 - 150				10/31/22 05:25	11/06/22 15:56	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-08
Date Collected: 10/26/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-29
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/05/22 00:54	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/05/22 00:54	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/05/22 00:54	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/05/22 00:54	1
Bromoform	<0.48		1.0	0.48	ug/L			11/05/22 00:54	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/05/22 00:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/05/22 00:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/05/22 00:54	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/05/22 00:54	1
Chloroform	<0.37		2.0	0.37	ug/L			11/05/22 00:54	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/05/22 00:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/05/22 00:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/05/22 00:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/05/22 00:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/05/22 00:54	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/05/22 00:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/05/22 00:54	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/05/22 00:54	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/05/22 00:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/05/22 00:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/05/22 00:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/05/22 00:54	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/05/22 00:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/05/22 00:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/05/22 00:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/05/22 00:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/05/22 00:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/05/22 00:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/05/22 00:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/05/22 00:54	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/05/22 00:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/05/22 00:54	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/05/22 00:54	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/05/22 00:54	1
Methylene Chloride	2.0 J		5.0	1.6	ug/L			11/05/22 00:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/05/22 00:54	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/05/22 00:54	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/05/22 00:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/05/22 00:54	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/05/22 00:54	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/05/22 00:54	1
Styrene	<0.39		1.0	0.39	ug/L			11/05/22 00:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/05/22 00:54	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/05/22 00:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/05/22 00:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/05/22 00:54	1
Toluene	<0.15		0.50	0.15	ug/L			11/05/22 00:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/05/22 00:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/05/22 00:54	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-08
Date Collected: 10/26/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-29
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/05/22 00:54	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/05/22 00:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/05/22 00:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/05/22 00:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/05/22 00:54	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/05/22 00:54	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/05/22 00:54	1
1,2,4-Trimethylbenzene	0.75	J B	1.0	0.36	ug/L			11/05/22 00:54	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/05/22 00:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/05/22 00:54	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/05/22 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124		11/05/22 00:54	1
Dibromofluoromethane (Surr)	97		75 - 120		11/05/22 00:54	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 126		11/05/22 00:54	1
Toluene-d8 (Surr)	93		75 - 120		11/05/22 00:54	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorooctanoic acid (PFOA)	<0.76		1.8	0.76	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		10/31/22 05:25	11/06/22 16:06	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		10/31/22 05:25	11/06/22 16:06	1
NEtFOSA	<0.78		1.8	0.78	ng/L		10/31/22 05:25	11/06/22 16:06	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/31/22 05:25	11/06/22 16:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		10/31/22 05:25	11/06/22 16:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		10/31/22 05:25	11/06/22 16:06	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/31/22 05:25	11/06/22 16:06	1
NEtFOSE	<0.76		1.8	0.76	ng/L		10/31/22 05:25	11/06/22 16:06	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-08
Date Collected: 10/26/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-29
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.22		1.8	0.22	ng/L		10/31/22 05:25	11/06/22 16:06	1
6:2 FTS	<2.2		4.5	2.2	ng/L		10/31/22 05:25	11/06/22 16:06	1
8:2 FTS	<0.41		1.8	0.41	ng/L		10/31/22 05:25	11/06/22 16:06	1
DONA	<0.36		1.8	0.36	ng/L		10/31/22 05:25	11/06/22 16:06	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		10/31/22 05:25	11/06/22 16:06	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/31/22 05:25	11/06/22 16:06	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/31/22 05:25	11/06/22 16:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	92		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C5 PFPeA	95		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C2 PFHxA	94		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C4 PFHpA	98		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C4 PFOA	94		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C5 PFNA	97		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C2 PFDA	99		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C2 PFUnA	97		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C2 PFDoA	92		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C2 PFTeDA	93		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C3 PFBS	97		25 - 150				10/31/22 05:25	11/06/22 16:06	1
18O2 PFHxS	98		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C4 PFOS	92		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C8 FOSA	93		10 - 150				10/31/22 05:25	11/06/22 16:06	1
d3-NMeFOSAA	90		25 - 150				10/31/22 05:25	11/06/22 16:06	1
d5-NEtFOSAA	90		25 - 150				10/31/22 05:25	11/06/22 16:06	1
d-N-MeFOSA-M	83		10 - 150				10/31/22 05:25	11/06/22 16:06	1
d-N-EtFOSA-M	82		10 - 150				10/31/22 05:25	11/06/22 16:06	1
d7-N-MeFOSE-M	87		10 - 150				10/31/22 05:25	11/06/22 16:06	1
d9-N-EtFOSE-M	87		10 - 150				10/31/22 05:25	11/06/22 16:06	1
M2-4:2 FTS	91		25 - 150				10/31/22 05:25	11/06/22 16:06	1
M2-6:2 FTS	87		25 - 150				10/31/22 05:25	11/06/22 16:06	1
M2-8:2 FTS	81		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C3 HFPO-DA	89		25 - 150				10/31/22 05:25	11/06/22 16:06	1
13C2 10:2 FTS	88		25 - 150				10/31/22 05:25	11/06/22 16:06	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: FB-08
Date Collected: 10/26/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-30
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorooctanoic acid (PFOA)	<0.81		1.9	0.81	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/31/22 05:25	11/06/22 16:16	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		10/31/22 05:25	11/06/22 16:16	1
NEtFOSA	<0.83		1.9	0.83	ng/L		10/31/22 05:25	11/06/22 16:16	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/31/22 05:25	11/06/22 16:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/31/22 05:25	11/06/22 16:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/31/22 05:25	11/06/22 16:16	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/31/22 05:25	11/06/22 16:16	1
NEtFOSE	<0.81		1.9	0.81	ng/L		10/31/22 05:25	11/06/22 16:16	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/31/22 05:25	11/06/22 16:16	1
6:2 FTS	<2.4		4.7	2.4	ng/L		10/31/22 05:25	11/06/22 16:16	1
8:2 FTS	<0.44		1.9	0.44	ng/L		10/31/22 05:25	11/06/22 16:16	1
DONA	<0.38		1.9	0.38	ng/L		10/31/22 05:25	11/06/22 16:16	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/31/22 05:25	11/06/22 16:16	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/31/22 05:25	11/06/22 16:16	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/31/22 05:25	11/06/22 16:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C5 PFPeA	98		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C2 PFHxA	101		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C4 PFHpA	102		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C4 PFOA	97		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C5 PFNA	95		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C2 PFDA	102		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C2 PFUnA	107		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C2 PFDoA	107		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C2 PFTeDA	102		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C3 PFBS	101		25 - 150	10/31/22 05:25	11/06/22 16:16	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: FB-08
Date Collected: 10/26/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-30
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	100		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C4 PFOS	95		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C8 FOSA	102		10 - 150	10/31/22 05:25	11/06/22 16:16	1
d3-NMeFOSAA	91		25 - 150	10/31/22 05:25	11/06/22 16:16	1
d5-NEtFOSAA	95		25 - 150	10/31/22 05:25	11/06/22 16:16	1
d-N-MeFOSA-M	88		10 - 150	10/31/22 05:25	11/06/22 16:16	1
d-N-EtFOSA-M	87		10 - 150	10/31/22 05:25	11/06/22 16:16	1
d7-N-MeFOSE-M	100		10 - 150	10/31/22 05:25	11/06/22 16:16	1
d9-N-EtFOSE-M	92		10 - 150	10/31/22 05:25	11/06/22 16:16	1
M2-4:2 FTS	90		25 - 150	10/31/22 05:25	11/06/22 16:16	1
M2-6:2 FTS	83		25 - 150	10/31/22 05:25	11/06/22 16:16	1
M2-8:2 FTS	88		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C3 HFPO-DA	98		25 - 150	10/31/22 05:25	11/06/22 16:16	1
13C2 10:2 FTS	88		25 - 150	10/31/22 05:25	11/06/22 16:16	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-221

Lab Sample ID: 500-224562-31

Date Collected: 10/27/22 08:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<12		25	12	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluoropentanoic acid (PFPeA)	<2.5		10	2.5	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorohexanoic acid (PFHxA)	54		10	2.9	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluoroheptanoic acid (PFHpA)	310		10	1.3	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorooctanoic acid (PFOA)	1200		10	4.3	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorononanoic acid (PFNA)	<1.4		10	1.4	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorodecanoic acid (PFDA)	<1.6		10	1.6	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluoroundecanoic acid (PFUnA)	<5.5		10	5.5	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorododecanoic acid (PFDoA)	<2.8		10	2.8	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorotridecanoic acid (PFTriA)	<6.5		10	6.5	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorotetradecanoic acid (PFTeA)	<3.7		10	3.7	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorobutanesulfonic acid (PFBS)	<1.0		10	1.0	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5		10	1.5	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.9		10	2.9	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.95		10	0.95	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorooctanesulfonic acid (PFOS)	7.7 J		10	2.7	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorononanesulfonic acid (PFNS)	<1.9		10	1.9	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		10	1.6	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorododecanesulfonic acid (PFDoS)	<4.9		10	4.9	ng/L		10/31/22 05:25	11/06/22 16:26	1
Perfluorooctanesulfonamide (FOSA)	<4.9		10	4.9	ng/L		10/31/22 05:25	11/06/22 16:26	1
NEtFOSA	<4.4		10	4.4	ng/L		10/31/22 05:25	11/06/22 16:26	1
NMeFOSA	<2.2		10	2.2	ng/L		10/31/22 05:25	11/06/22 16:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<6.0		25	6.0	ng/L		10/31/22 05:25	11/06/22 16:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<6.5		25	6.5	ng/L		10/31/22 05:25	11/06/22 16:26	1
NMeFOSE	<7.0		20	7.0	ng/L		10/31/22 05:25	11/06/22 16:26	1
NEtFOSE	<4.3		10	4.3	ng/L		10/31/22 05:25	11/06/22 16:26	1
4:2 FTS	<1.2		10	1.2	ng/L		10/31/22 05:25	11/06/22 16:26	1
6:2 FTS	<13		25	13	ng/L		10/31/22 05:25	11/06/22 16:26	1
8:2 FTS	<2.3		10	2.3	ng/L		10/31/22 05:25	11/06/22 16:26	1
DONA	<2.0		10	2.0	ng/L		10/31/22 05:25	11/06/22 16:26	1
HFPO-DA (GenX)	<7.5		20	7.5	ng/L		10/31/22 05:25	11/06/22 16:26	1
F-53B Major	<1.2		10	1.2	ng/L		10/31/22 05:25	11/06/22 16:26	1
F-53B Minor	<1.6		10	1.6	ng/L		10/31/22 05:25	11/06/22 16:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	53		25 - 150				10/31/22 05:25	11/06/22 16:26	1
13C5 PFPeA	69		25 - 150				10/31/22 05:25	11/06/22 16:26	1
13C2 PFHxA	81		25 - 150				10/31/22 05:25	11/06/22 16:26	1
13C4 PFHpA	90		25 - 150				10/31/22 05:25	11/06/22 16:26	1
13C4 PFOA	94		25 - 150				10/31/22 05:25	11/06/22 16:26	1
13C5 PFNA	94		25 - 150				10/31/22 05:25	11/06/22 16:26	1
13C2 PFDA	99		25 - 150				10/31/22 05:25	11/06/22 16:26	1
13C2 PFUnA	99		25 - 150				10/31/22 05:25	11/06/22 16:26	1
13C2 PFDoA	100		25 - 150				10/31/22 05:25	11/06/22 16:26	1
13C2 PFTeDA	96		25 - 150				10/31/22 05:25	11/06/22 16:26	1
13C3 PFBS	88		25 - 150				10/31/22 05:25	11/06/22 16:26	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-221

Lab Sample ID: 500-224562-31

Date Collected: 10/27/22 08:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	94		25 - 150	10/31/22 05:25	11/06/22 16:26	1
13C4 PFOS	92		25 - 150	10/31/22 05:25	11/06/22 16:26	1
13C8 FOSA	98		10 - 150	10/31/22 05:25	11/06/22 16:26	1
d3-NMeFOSAA	86		25 - 150	10/31/22 05:25	11/06/22 16:26	1
d5-NEtFOSAA	93		25 - 150	10/31/22 05:25	11/06/22 16:26	1
d-N-MeFOSA-M	85		10 - 150	10/31/22 05:25	11/06/22 16:26	1
d-N-EtFOSA-M	80		10 - 150	10/31/22 05:25	11/06/22 16:26	1
d7-N-MeFOSE-M	84		10 - 150	10/31/22 05:25	11/06/22 16:26	1
d9-N-EtFOSE-M	86		10 - 150	10/31/22 05:25	11/06/22 16:26	1
M2-4:2 FTS	145		25 - 150	10/31/22 05:25	11/06/22 16:26	1
M2-6:2 FTS	145		25 - 150	10/31/22 05:25	11/06/22 16:26	1
M2-8:2 FTS	125		25 - 150	10/31/22 05:25	11/06/22 16:26	1
13C3 HFPO-DA	82		25 - 150	10/31/22 05:25	11/06/22 16:26	1
13C2 10:2 FTS	99		25 - 150	10/31/22 05:25	11/06/22 16:26	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-12
Date Collected: 10/27/22 09:15
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-32
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	19000	H	500	240	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluoropentanoic acid (PFPeA)	<49	H	200	49	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorohexanoic acid (PFHxA)	<58	H	200	58	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluoroheptanoic acid (PFHpA)	150	J H	200	25	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorooctanoic acid (PFOA)	7100	H	200	85	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorononanoic acid (PFNA)	<27	H	200	27	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorodecanoic acid (PFDA)	<31	H	200	31	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluoroundecanoic acid (PFUnA)	<110	H	200	110	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorododecanoic acid (PFDoA)	<55	H	200	55	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorotridecanoic acid (PFTriA)	<130	H	200	130	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorotetradecanoic acid (PFTeA)	<73	H	200	73	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorobutanesulfonic acid (PFBS)	<20	H	200	20	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluoropentanesulfonic acid (PFPeS)	<30	H	200	30	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluoroheptanesulfonic acid (PFHpS)	<57	H	200	57	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorooctanesulfonic acid (PFOS)	<54	H	200	54	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorononanesulfonic acid (PFNS)	<37	H	200	37	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorodecanesulfonic acid (PFDS)	<32	H	200	32	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorododecanesulfonic acid (PFDoS)	<97	H	200	97	ng/L		11/30/22 08:21	12/01/22 17:59	1
Perfluorooctanesulfonamide (FOSA)	<98	H	200	98	ng/L		11/30/22 08:21	12/01/22 17:59	1
NETFOSA	<87	H	200	87	ng/L		11/30/22 08:21	12/01/22 17:59	1
NMeFOSA	<43	H	200	43	ng/L		11/30/22 08:21	12/01/22 17:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<120	H	500	120	ng/L		11/30/22 08:21	12/01/22 17:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<130	H	500	130	ng/L		11/30/22 08:21	12/01/22 17:59	1
NMeFOSE	<140	H	400	140	ng/L		11/30/22 08:21	12/01/22 17:59	1
NEtFOSE	<85	H	200	85	ng/L		11/30/22 08:21	12/01/22 17:59	1
4:2 FTS	<24	H	200	24	ng/L		11/30/22 08:21	12/01/22 17:59	1
6:2 FTS	<250	H	500	250	ng/L		11/30/22 08:21	12/01/22 17:59	1
8:2 FTS	<46	H	200	46	ng/L		11/30/22 08:21	12/01/22 17:59	1
DONA	<40	H	200	40	ng/L		11/30/22 08:21	12/01/22 17:59	1
HFPO-DA (GenX)	<150	H	400	150	ng/L		11/30/22 08:21	12/01/22 17:59	1
F-53B Major	<24	H	200	24	ng/L		11/30/22 08:21	12/01/22 17:59	1
F-53B Minor	<32	H	200	32	ng/L		11/30/22 08:21	12/01/22 17:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	27		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C5 PFPeA	51		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C2 PFHxA	73		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C4 PFHpA	86		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C4 PFOA	91		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C5 PFNA	118		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C2 PFDA	113		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C2 PFUnA	133		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C2 PFDoA	113		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C2 PFTeDA	88		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C3 PFBS	103		25 - 150	11/30/22 08:21	12/01/22 17:59	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-12
Date Collected: 10/27/22 09:15
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-32
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	110		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C4 PFOS	124		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C8 FOSA	92		10 - 150	11/30/22 08:21	12/01/22 17:59	1
d3-NMeFOSAA	79		25 - 150	11/30/22 08:21	12/01/22 17:59	1
d5-NEtFOSAA	98		25 - 150	11/30/22 08:21	12/01/22 17:59	1
d-N-MeFOSA-M	75		10 - 150	11/30/22 08:21	12/01/22 17:59	1
d-N-EtFOSA-M	80		10 - 150	11/30/22 08:21	12/01/22 17:59	1
d7-N-MeFOSE-M	81		10 - 150	11/30/22 08:21	12/01/22 17:59	1
d9-N-EtFOSE-M	81		10 - 150	11/30/22 08:21	12/01/22 17:59	1
M2-4:2 FTS	99		25 - 150	11/30/22 08:21	12/01/22 17:59	1
M2-6:2 FTS	129		25 - 150	11/30/22 08:21	12/01/22 17:59	1
M2-8:2 FTS	129		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C3 HFPO-DA	106		25 - 150	11/30/22 08:21	12/01/22 17:59	1
13C2 10:2 FTS	137		25 - 150	11/30/22 08:21	12/01/22 17:59	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Aluminum	<250		1000	250	ug/L		11/23/22 08:54	11/28/22 20:54	10
Antimony	<13		30	13	ug/L		11/23/22 08:54	11/28/22 20:54	10
Arsenic	16		10	2.3	ug/L		11/23/22 08:54	11/28/22 20:54	10
Chromium	150		50	11	ug/L		11/23/22 08:54	11/28/22 20:54	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-12 DUP

Lab Sample ID: 500-224562-33

Date Collected: 10/27/22 09:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<240	H	500	240	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluoropentanoic acid (PFPeA)	<49	H	200	49	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorohexanoic acid (PFHxA)	<58	H	200	58	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluoroheptanoic acid (PFHpA)	370	H	200	25	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorooctanoic acid (PFOA)	7900	H	200	85	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorononanoic acid (PFNA)	<27	H	200	27	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorodecanoic acid (PFDA)	<31	H	200	31	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluoroundecanoic acid (PFUnA)	<110	H	200	110	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorododecanoic acid (PFDoA)	<55	H	200	55	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorotridecanoic acid (PFTriA)	<130	H	200	130	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorotetradecanoic acid (PFTeA)	<73	H	200	73	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorobutanesulfonic acid (PFBS)	<20	H	200	20	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluoropentanesulfonic acid (PFPeS)	<30	H	200	30	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorohexanesulfonic acid (PFHxS)	<57	H	200	57	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluoroheptanesulfonic acid (PFHpS)	<19	H	200	19	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorooctanesulfonic acid (PFOS)	<54	H	200	54	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorononanesulfonic acid (PFNS)	<37	H	200	37	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorodecanesulfonic acid (PFDS)	<32	H	200	32	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorododecanesulfonic acid (PFDoS)	<97	H	200	97	ng/L		11/30/22 08:21	12/03/22 13:17	1
Perfluorooctanesulfonamide (FOSA)	<98	H	200	98	ng/L		11/30/22 08:21	12/03/22 13:17	1
NETFOSA	<87	H	200	87	ng/L		11/30/22 08:21	12/03/22 13:17	1
NMeFOSA	<43	H	200	43	ng/L		11/30/22 08:21	12/03/22 13:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<120	H	500	120	ng/L		11/30/22 08:21	12/03/22 13:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<130	H	500	130	ng/L		11/30/22 08:21	12/03/22 13:17	1
NMeFOSE	<140	H	400	140	ng/L		11/30/22 08:21	12/03/22 13:17	1
NEtFOSE	<85	H	200	85	ng/L		11/30/22 08:21	12/03/22 13:17	1
4:2 FTS	<24	H	200	24	ng/L		11/30/22 08:21	12/03/22 13:17	1
6:2 FTS	<250	H	500	250	ng/L		11/30/22 08:21	12/03/22 13:17	1
8:2 FTS	<46	H	200	46	ng/L		11/30/22 08:21	12/03/22 13:17	1
DONA	<40	H	200	40	ng/L		11/30/22 08:21	12/03/22 13:17	1
HFPO-DA (GenX)	<150	H	400	150	ng/L		11/30/22 08:21	12/03/22 13:17	1
F-53B Major	<24	H	200	24	ng/L		11/30/22 08:21	12/03/22 13:17	1
F-53B Minor	<32	H	200	32	ng/L		11/30/22 08:21	12/03/22 13:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	27		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C5 PFPeA	55		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C2 PFHxA	74		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C4 PFHpA	82		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C4 PFOA	91		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C5 PFNA	116		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C2 PFDA	100		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C2 PFUnA	126		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C2 PFDoA	120		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C2 PFTeDA	85		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C3 PFBS	116		25 - 150	11/30/22 08:21	12/03/22 13:17	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-12 DUP

Lab Sample ID: 500-224562-33

Date Collected: 10/27/22 09:15

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	113		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C4 PFOS	128		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C8 FOSA	100		10 - 150	11/30/22 08:21	12/03/22 13:17	1
d3-NMeFOSAA	86		25 - 150	11/30/22 08:21	12/03/22 13:17	1
d5-NEtFOSAA	102		25 - 150	11/30/22 08:21	12/03/22 13:17	1
d-N-MeFOSA-M	95		10 - 150	11/30/22 08:21	12/03/22 13:17	1
d-N-EtFOSA-M	88		10 - 150	11/30/22 08:21	12/03/22 13:17	1
d7-N-MeFOSE-M	95		10 - 150	11/30/22 08:21	12/03/22 13:17	1
d9-N-EtFOSE-M	85		10 - 150	11/30/22 08:21	12/03/22 13:17	1
M2-4:2 FTS	96		25 - 150	11/30/22 08:21	12/03/22 13:17	1
M2-6:2 FTS	126		25 - 150	11/30/22 08:21	12/03/22 13:17	1
M2-8:2 FTS	134		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C3 HFPO-DA	89		25 - 150	11/30/22 08:21	12/03/22 13:17	1
13C2 10:2 FTS	123		25 - 150	11/30/22 08:21	12/03/22 13:17	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<250		1000	250	ug/L		11/23/22 08:54	11/28/22 20:58	10
Antimony	<13		30	13	ug/L		11/23/22 08:54	11/28/22 20:58	10
Arsenic	14		10	2.3	ug/L		11/23/22 08:54	11/28/22 20:58	10
Chromium	150		50	11	ug/L		11/23/22 08:54	11/28/22 20:58	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-9
Date Collected: 10/27/22 10:20
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-34
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/05/22 01:21	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/05/22 01:21	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/05/22 01:21	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/05/22 01:21	1
Bromoform	<0.48		1.0	0.48	ug/L			11/05/22 01:21	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/05/22 01:21	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/05/22 01:21	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/05/22 01:21	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/05/22 01:21	1
Chloroform	<0.37		2.0	0.37	ug/L			11/05/22 01:21	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/05/22 01:21	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/05/22 01:21	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/05/22 01:21	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/05/22 01:21	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/05/22 01:21	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/05/22 01:21	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/05/22 01:21	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/05/22 01:21	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/05/22 01:21	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/05/22 01:21	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/05/22 01:21	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/05/22 01:21	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/05/22 01:21	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/05/22 01:21	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/05/22 01:21	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/05/22 01:21	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/05/22 01:21	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/05/22 01:21	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/05/22 01:21	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/05/22 01:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/05/22 01:21	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/05/22 01:21	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/05/22 01:21	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/05/22 01:21	1
Methylene Chloride	1.7 J		5.0	1.6	ug/L			11/05/22 01:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/05/22 01:21	1
Naphthalene	0.82 J		1.0	0.34	ug/L			11/05/22 01:21	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/05/22 01:21	1
N-Propylbenzene	0.63 J B		1.0	0.41	ug/L			11/05/22 01:21	1
p-Isopropyltoluene	0.78 J B		1.0	0.36	ug/L			11/05/22 01:21	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/05/22 01:21	1
Styrene	<0.39		1.0	0.39	ug/L			11/05/22 01:21	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/05/22 01:21	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/05/22 01:21	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/05/22 01:21	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/05/22 01:21	1
Toluene	0.44 J		0.50	0.15	ug/L			11/05/22 01:21	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/05/22 01:21	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/05/22 01:21	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-9
Date Collected: 10/27/22 10:20
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-34
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/05/22 01:21	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/05/22 01:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/05/22 01:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/05/22 01:21	1
Trichloroethene	11		0.50	0.16	ug/L			11/05/22 01:21	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/05/22 01:21	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/05/22 01:21	1
1,2,4-Trimethylbenzene	0.86	J B	1.0	0.36	ug/L			11/05/22 01:21	1
1,3,5-Trimethylbenzene	0.92	J B	1.0	0.25	ug/L			11/05/22 01:21	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/05/22 01:21	1
Xylenes, Total	0.90	J	1.0	0.22	ug/L			11/05/22 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124					11/05/22 01:21	1
Dibromofluoromethane (Surr)	98		75 - 120					11/05/22 01:21	1
1,2-Dichloroethane-d4 (Surr)	99		75 - 126					11/05/22 01:21	1
Toluene-d8 (Surr)	92		75 - 120					11/05/22 01:21	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4500		250	120	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluoropentanoic acid (PFPeA)	1600		100	25	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorohexanoic acid (PFHxA)	<29		100	29	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluoroheptanoic acid (PFHpA)	<13		100	13	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorooctanoic acid (PFOA)	2800		100	43	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorononanoic acid (PFNA)	<14		100	14	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorodecanoic acid (PFDA)	<16		100	16	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluoroundecanoic acid (PFUnA)	<55		100	55	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorododecanoic acid (PFDoA)	<28		100	28	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorotridecanoic acid (PFTriA)	<65		100	65	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorotetradecanoic acid (PFTeA)	<37		100	37	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorobutanesulfonic acid (PFBS)	<10		100	10	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluoropentanesulfonic acid (PFPeS)	<15		100	15	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorohexanesulfonic acid (PFHxS)	39	J	100	29	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluoroheptanesulfonic acid (PFHpS)	<9.5		100	9.5	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorooctanesulfonic acid (PFOS)	<27		100	27	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorononanesulfonic acid (PFNS)	<19		100	19	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorodecanesulfonic acid (PFDS)	<16		100	16	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorododecanesulfonic acid (PFDoS)	<49		100	49	ng/L		10/31/22 05:25	11/08/22 22:40	10
Perfluorooctanesulfonamide (FOSA)	<49		100	49	ng/L		10/31/22 05:25	11/08/22 22:40	10
NEtFOSA	<44		100	44	ng/L		10/31/22 05:25	11/08/22 22:40	10
NMeFOSA	<22		100	22	ng/L		10/31/22 05:25	11/08/22 22:40	10
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<60		250	60	ng/L		10/31/22 05:25	11/08/22 22:40	10
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<65		250	65	ng/L		10/31/22 05:25	11/08/22 22:40	10
NMeFOSE	<70		200	70	ng/L		10/31/22 05:25	11/08/22 22:40	10

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-9

Lab Sample ID: 500-224562-34

Date Collected: 10/27/22 10:20

Matrix: Water

Date Received: 10/28/22 10:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<43		100	43	ng/L		10/31/22 05:25	11/08/22 22:40	10
4:2 FTS	<12		100	12	ng/L		10/31/22 05:25	11/08/22 22:40	10
6:2 FTS	<130		250	130	ng/L		10/31/22 05:25	11/08/22 22:40	10
8:2 FTS	<23		100	23	ng/L		10/31/22 05:25	11/08/22 22:40	10
DONA	<20		100	20	ng/L		10/31/22 05:25	11/08/22 22:40	10
HFPO-DA (GenX)	<75		200	75	ng/L		10/31/22 05:25	11/08/22 22:40	10
F-53B Major	<12		100	12	ng/L		10/31/22 05:25	11/08/22 22:40	10
F-53B Minor	<16		100	16	ng/L		10/31/22 05:25	11/08/22 22:40	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	24	*5-	25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C5 PFPeA	58		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C2 PFHxA	75		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C4 PFHpA	89		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C4 PFOA	96		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C5 PFNA	110		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C2 PFDA	119		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C2 PFUnA	124		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C2 PFDoA	135		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C2 PFTeDA	108		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C3 PFBS	93		25 - 150				10/31/22 05:25	11/08/22 22:40	10
18O2 PFHxS	103		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C4 PFOS	111		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C8 FOSA	111		10 - 150				10/31/22 05:25	11/08/22 22:40	10
d3-NMeFOSAA	90		25 - 150				10/31/22 05:25	11/08/22 22:40	10
d5-NEtFOSAA	113		25 - 150				10/31/22 05:25	11/08/22 22:40	10
d-N-MeFOSA-M	97		10 - 150				10/31/22 05:25	11/08/22 22:40	10
d-N-EtFOSA-M	94		10 - 150				10/31/22 05:25	11/08/22 22:40	10
d7-N-MeFOSE-M	109		10 - 150				10/31/22 05:25	11/08/22 22:40	10
d9-N-EtFOSE-M	106		10 - 150				10/31/22 05:25	11/08/22 22:40	10
M2-4:2 FTS	170	*5+	25 - 150				10/31/22 05:25	11/08/22 22:40	10
M2-6:2 FTS	208	*5+	25 - 150				10/31/22 05:25	11/08/22 22:40	10
M2-8:2 FTS	211	*5+	25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C3 HFPO-DA	78		25 - 150				10/31/22 05:25	11/08/22 22:40	10
13C2 10:2 FTS	161	*5+	25 - 150				10/31/22 05:25	11/08/22 22:40	10

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-09
Date Collected: 10/27/22 10:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-35
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/05/22 01:47	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/05/22 01:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/05/22 01:47	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/05/22 01:47	1
Bromoform	<0.48		1.0	0.48	ug/L			11/05/22 01:47	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/05/22 01:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/05/22 01:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/05/22 01:47	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/05/22 01:47	1
Chloroform	<0.37		2.0	0.37	ug/L			11/05/22 01:47	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/05/22 01:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/05/22 01:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/05/22 01:47	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/05/22 01:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/05/22 01:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/05/22 01:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/05/22 01:47	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/05/22 01:47	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/05/22 01:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/05/22 01:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/05/22 01:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/05/22 01:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/05/22 01:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/05/22 01:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/05/22 01:47	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/05/22 01:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/05/22 01:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/05/22 01:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/05/22 01:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/05/22 01:47	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/05/22 01:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/05/22 01:47	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/05/22 01:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/05/22 01:47	1
Methylene Chloride	1.7 J		5.0	1.6	ug/L			11/05/22 01:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/05/22 01:47	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/05/22 01:47	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/05/22 01:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/05/22 01:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/05/22 01:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/05/22 01:47	1
Styrene	<0.39		1.0	0.39	ug/L			11/05/22 01:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/05/22 01:47	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/05/22 01:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/05/22 01:47	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/05/22 01:47	1
Toluene	1.3		0.50	0.15	ug/L			11/05/22 01:47	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/05/22 01:47	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/05/22 01:47	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-09
Date Collected: 10/27/22 10:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-35
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/05/22 01:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/05/22 01:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/05/22 01:47	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/05/22 01:47	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/05/22 01:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/05/22 01:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/05/22 01:47	1
1,2,4-Trimethylbenzene	0.74	J B	1.0	0.36	ug/L			11/05/22 01:47	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/05/22 01:47	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/05/22 01:47	1
Xylenes, Total	0.49	J	1.0	0.22	ug/L			11/05/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124					11/05/22 01:47	1
Dibromofluoromethane (Surr)	96		75 - 120					11/05/22 01:47	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 126					11/05/22 01:47	1
Toluene-d8 (Surr)	93		75 - 120					11/05/22 01:47	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		4.9	2.4	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorooctanoic acid (PFOA)	<0.84		2.0	0.84	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		10/31/22 05:25	11/06/22 17:37	1
Perfluorooctanesulfonamide (FOSA)	<0.97		2.0	0.97	ng/L		10/31/22 05:25	11/06/22 17:37	1
NEtFOSA	<0.86		2.0	0.86	ng/L		10/31/22 05:25	11/06/22 17:37	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 05:25	11/06/22 17:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		10/31/22 05:25	11/06/22 17:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		10/31/22 05:25	11/06/22 17:37	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 05:25	11/06/22 17:37	1
NEtFOSE	<0.84		2.0	0.84	ng/L		10/31/22 05:25	11/06/22 17:37	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-09
Date Collected: 10/27/22 10:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-35
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 05:25	11/06/22 17:37	1
6:2 FTS	<2.5		4.9	2.5	ng/L		10/31/22 05:25	11/06/22 17:37	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 05:25	11/06/22 17:37	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 05:25	11/06/22 17:37	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 05:25	11/06/22 17:37	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 05:25	11/06/22 17:37	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 05:25	11/06/22 17:37	1

Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	98		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C5 PFPeA	92		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C2 PFHxA	99		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C4 PFHpA	95		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C4 PFOA	97		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C5 PFNA	95		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C2 PFDA	103		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C2 PFUnA	106		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C2 PFDoA	108		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C2 PFTeDA	105		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C3 PFBS	104		25 - 150				10/31/22 05:25	11/06/22 17:37	1
18O2 PFHxS	98		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C4 PFOS	94		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C8 FOSA	99		10 - 150				10/31/22 05:25	11/06/22 17:37	1
d3-NMeFOSAA	92		25 - 150				10/31/22 05:25	11/06/22 17:37	1
d5-NEtFOSAA	93		25 - 150				10/31/22 05:25	11/06/22 17:37	1
d-N-MeFOSA-M	80		10 - 150				10/31/22 05:25	11/06/22 17:37	1
d-N-EtFOSA-M	88		10 - 150				10/31/22 05:25	11/06/22 17:37	1
d7-N-MeFOSE-M	90		10 - 150				10/31/22 05:25	11/06/22 17:37	1
d9-N-EtFOSE-M	96		10 - 150				10/31/22 05:25	11/06/22 17:37	1
M2-4:2 FTS	99		25 - 150				10/31/22 05:25	11/06/22 17:37	1
M2-6:2 FTS	92		25 - 150				10/31/22 05:25	11/06/22 17:37	1
M2-8:2 FTS	89		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C3 HFPO-DA	85		25 - 150				10/31/22 05:25	11/06/22 17:37	1
13C2 10:2 FTS	92		25 - 150				10/31/22 05:25	11/06/22 17:37	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		11/23/22 08:54	11/28/22 21:01	1
Antimony	<1.3		3.0	1.3	ug/L		11/23/22 08:54	11/28/22 21:01	1
Arsenic	<0.23		1.0	0.23	ug/L		11/23/22 08:54	11/28/22 21:01	1
Chromium	<1.1		5.0	1.1	ug/L		11/23/22 08:54	11/28/22 21:01	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: FB-09
Date Collected: 10/27/22 10:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-36
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.5		5.3	2.5	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluoropentanoic acid (PFPeA)	<0.52		2.1	0.52	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorohexanoic acid (PFHxA)	<0.61		2.1	0.61	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.1	0.26	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorooctanoic acid (PFOA)	<0.90		2.1	0.90	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorononanoic acid (PFNA)	<0.29		2.1	0.29	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorodecanoic acid (PFDA)	<0.33		2.1	0.33	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.1	1.2	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorododecanoic acid (PFDoA)	<0.58		2.1	0.58	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorotridecanoic acid (PFTriA)	<1.4		2.1	1.4	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorotetradecanoic acid (PFTeA)	<0.77		2.1	0.77	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluoropentanesulfonic acid (PFPeS)	<0.32		2.1	0.32	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorohexanesulfonic acid (PFHxS)	<0.60		2.1	0.60	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorooctanesulfonic acid (PFOS)	<0.57		2.1	0.57	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorononanesulfonic acid (PFNS)	<0.39		2.1	0.39	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorodecanesulfonic acid (PFDS)	<0.34		2.1	0.34	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		10/31/22 05:25	11/06/22 17:47	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		10/31/22 05:25	11/06/22 17:47	1
NEtFOSA	<0.92		2.1	0.92	ng/L		10/31/22 05:25	11/06/22 17:47	1
NMeFOSA	<0.45		2.1	0.45	ng/L		10/31/22 05:25	11/06/22 17:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.3		5.3	1.3	ng/L		10/31/22 05:25	11/06/22 17:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.4		5.3	1.4	ng/L		10/31/22 05:25	11/06/22 17:47	1
NMeFOSE	<1.5		4.2	1.5	ng/L		10/31/22 05:25	11/06/22 17:47	1
NEtFOSE	<0.90		2.1	0.90	ng/L		10/31/22 05:25	11/06/22 17:47	1
4:2 FTS	<0.25		2.1	0.25	ng/L		10/31/22 05:25	11/06/22 17:47	1
6:2 FTS	<2.6		5.3	2.6	ng/L		10/31/22 05:25	11/06/22 17:47	1
8:2 FTS	<0.49		2.1	0.49	ng/L		10/31/22 05:25	11/06/22 17:47	1
DONA	<0.42		2.1	0.42	ng/L		10/31/22 05:25	11/06/22 17:47	1
HFPO-DA (GenX)	<1.6		4.2	1.6	ng/L		10/31/22 05:25	11/06/22 17:47	1
F-53B Major	<0.25		2.1	0.25	ng/L		10/31/22 05:25	11/06/22 17:47	1
F-53B Minor	<0.34		2.1	0.34	ng/L		10/31/22 05:25	11/06/22 17:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	101		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C5 PFPeA	97		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C2 PFHxA	104		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C4 PFHpA	101		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C4 PFOA	102		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C5 PFNA	99		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C2 PFDA	104		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C2 PFUnA	104		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C2 PFDoA	104		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C2 PFTeDA	104		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C3 PFBS	107		25 - 150	10/31/22 05:25	11/06/22 17:47	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: FB-09
Date Collected: 10/27/22 10:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-36
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	104		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C4 PFOS	94		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C8 FOSA	101		10 - 150	10/31/22 05:25	11/06/22 17:47	1
d3-NMeFOSAA	96		25 - 150	10/31/22 05:25	11/06/22 17:47	1
d5-NEtFOSAA	98		25 - 150	10/31/22 05:25	11/06/22 17:47	1
d-N-MeFOSA-M	83		10 - 150	10/31/22 05:25	11/06/22 17:47	1
d-N-EtFOSA-M	86		10 - 150	10/31/22 05:25	11/06/22 17:47	1
d7-N-MeFOSE-M	96		10 - 150	10/31/22 05:25	11/06/22 17:47	1
d9-N-EtFOSE-M	93		10 - 150	10/31/22 05:25	11/06/22 17:47	1
M2-4:2 FTS	99		25 - 150	10/31/22 05:25	11/06/22 17:47	1
M2-6:2 FTS	94		25 - 150	10/31/22 05:25	11/06/22 17:47	1
M2-8:2 FTS	88		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C3 HFPO-DA	93		25 - 150	10/31/22 05:25	11/06/22 17:47	1
13C2 10:2 FTS	91		25 - 150	10/31/22 05:25	11/06/22 17:47	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 500-224562-37

Date Collected: 10/27/22 00:00

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 22:55	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 22:55	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 22:55	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 22:55	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 22:55	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 22:55	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 22:55	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 22:55	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 22:55	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 22:55	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 22:55	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 22:55	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 22:55	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 22:55	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 22:55	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 22:55	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 22:55	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 22:55	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 22:55	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 22:55	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 22:55	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 22:55	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 22:55	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 22:55	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 22:55	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 22:55	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 22:55	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 22:55	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 22:55	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 22:55	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 22:55	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 22:55	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 22:55	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 22:55	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/22 22:55	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 22:55	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 22:55	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 22:55	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 22:55	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 22:55	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 22:55	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 22:55	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 22:55	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 22:55	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 22:55	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 22:55	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 22:55	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 22:55	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 22:55	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 500-224562-37

Date Collected: 10/27/22 00:00

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 22:55	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 22:55	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 22:55	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 22:55	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/22 22:55	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 22:55	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 22:55	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/04/22 22:55	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/22 22:55	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 22:55	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		72 - 124		11/04/22 22:55	1
Dibromofluoromethane (Surr)	110		75 - 120		11/04/22 22:55	1
1,2-Dichloroethane-d4 (Surr)	108		75 - 126		11/04/22 22:55	1
Toluene-d8 (Surr)	90		75 - 120		11/04/22 22:55	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: TRIP BLANK 3

Lab Sample ID: 500-224562-38

Date Collected: 10/27/22 00:00

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 23:18	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 23:18	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 23:18	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 23:18	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 23:18	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 23:18	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 23:18	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 23:18	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 23:18	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 23:18	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 23:18	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 23:18	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 23:18	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 23:18	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 23:18	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 23:18	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 23:18	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 23:18	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 23:18	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 23:18	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 23:18	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 23:18	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 23:18	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 23:18	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 23:18	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 23:18	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 23:18	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 23:18	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 23:18	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 23:18	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 23:18	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 23:18	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 23:18	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 23:18	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/22 23:18	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 23:18	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 23:18	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 23:18	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 23:18	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 23:18	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 23:18	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 23:18	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 23:18	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 23:18	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 23:18	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 23:18	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 23:18	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 23:18	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 23:18	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: TRIP BLANK 3

Lab Sample ID: 500-224562-38

Date Collected: 10/27/22 00:00

Matrix: Water

Date Received: 10/28/22 10:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 23:18	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 23:18	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 23:18	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 23:18	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/22 23:18	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 23:18	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 23:18	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/04/22 23:18	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/22 23:18	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 23:18	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		72 - 124		11/04/22 23:18	1
Dibromofluoromethane (Surr)	110		75 - 120		11/04/22 23:18	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		11/04/22 23:18	1
Toluene-d8 (Surr)	91		75 - 120		11/04/22 23:18	1

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
H	Sample was prepped or analyzed beyond the specified holding time
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

QC Association Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

GC/MS VOA

Analysis Batch: 683229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-37	TRIP BLANK 2	Total/NA	Water	8260B	
500-224562-38	TRIP BLANK 3	Total/NA	Water	8260B	
MB 500-683229/7	Method Blank	Total/NA	Water	8260B	
LCS 500-683229/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 683234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-2	AECOM MW-19	Total/NA	Water	8260B	
500-224562-3	MW-17	Total/NA	Water	8260B	
500-224562-5	EB-01	Total/NA	Water	8260B	
500-224562-6	MW-19	Total/NA	Water	8260B	
500-224562-7	MW-19 DUP	Total/NA	Water	8260B	
500-224562-8	MW-37	Total/NA	Water	8260B	
500-224562-14	EB-03	Total/NA	Water	8260B	
500-224562-18 - DL	MW-5	Total/NA	Water	8260B	
500-224562-20	MW-16	Total/NA	Water	8260B	
500-224562-21	MW-15	Total/NA	Water	8260B	
500-224562-21 - DL	MW-15	Total/NA	Water	8260B	
500-224562-22	MW-3	Total/NA	Water	8260B	
500-224562-23	MW-8	Total/NA	Water	8260B	
500-224562-26	MW-31	Total/NA	Water	8260B	
500-224562-27	MW-209	Total/NA	Water	8260B	
500-224562-28	MW-209 DUP	Total/NA	Water	8260B	
500-224562-29	EB-08	Total/NA	Water	8260B	
500-224562-34	MW-9	Total/NA	Water	8260B	
500-224562-35	EB-09	Total/NA	Water	8260B	
MB 500-683234/6	Method Blank	Total/NA	Water	8260B	
LCS 500-683234/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 683417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-18	MW-5	Total/NA	Water	8260B	
MB 500-683417/6	Method Blank	Total/NA	Water	8260B	
LCS 500-683417/4	Lab Control Sample	Total/NA	Water	8260B	
500-224562-6 MS	MW-19	Total/NA	Water	8260B	
500-224562-6 MSD	MW-19	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 682605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-6	MW-19	Total/NA	Water	3510C	
500-224562-7	MW-19 DUP	Total/NA	Water	3510C	
500-224562-8	MW-37	Total/NA	Water	3510C	
500-224562-9	MW-233	Total/NA	Water	3510C	
500-224562-10	MW-67	Total/NA	Water	3510C	
500-224562-12	MW-60	Total/NA	Water	3510C	
500-224562-13	MW-6	Total/NA	Water	3510C	
500-224562-14	EB-03	Total/NA	Water	3510C	
MB 500-682605/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-682605/2-A	Lab Control Sample	Total/NA	Water	3510C	

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

GC Semi VOA (Continued)

Prep Batch: 682605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-6 MS	MW-19	Total/NA	Water	3510C	
500-224562-6 MSD	MW-19	Total/NA	Water	3510C	

Analysis Batch: 683153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-6	MW-19	Total/NA	Water	8082A	682605
500-224562-7	MW-19 DUP	Total/NA	Water	8082A	682605
500-224562-9	MW-233	Total/NA	Water	8082A	682605
500-224562-10	MW-67	Total/NA	Water	8082A	682605
500-224562-12	MW-60	Total/NA	Water	8082A	682605
500-224562-13	MW-6	Total/NA	Water	8082A	682605
500-224562-14	EB-03	Total/NA	Water	8082A	682605
MB 500-682605/1-A	Method Blank	Total/NA	Water	8082A	682605
LCS 500-682605/2-A	Lab Control Sample	Total/NA	Water	8082A	682605
500-224562-6 MS	MW-19	Total/NA	Water	8082A	682605
500-224562-6 MSD	MW-19	Total/NA	Water	8082A	682605

Analysis Batch: 683527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-8	MW-37	Total/NA	Water	8082A	682605

LCMS

Prep Batch: 628958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-1	AECOM MW-18	Total/NA	Water	3535	
500-224562-1 - DL	AECOM MW-18	Total/NA	Water	3535	
500-224562-2	AECOM MW-19	Total/NA	Water	3535	
500-224562-2 - DL	AECOM MW-19	Total/NA	Water	3535	
500-224562-3	MW-17	Total/NA	Water	3535	
500-224562-3 - DL	MW-17	Total/NA	Water	3535	
500-224562-4	FB-01	Total/NA	Water	3535	
500-224562-5	EB-01	Total/NA	Water	3535	
500-224562-6	MW-19	Total/NA	Water	3535	
500-224562-6 - DL	MW-19	Total/NA	Water	3535	
500-224562-7 - DL	MW-19 DUP	Total/NA	Water	3535	
500-224562-7	MW-19 DUP	Total/NA	Water	3535	
500-224562-8	MW-37	Total/NA	Water	3535	
500-224562-8 - DL	MW-37	Total/NA	Water	3535	
500-224562-9	MW-233	Total/NA	Water	3535	
500-224562-10	MW-67	Total/NA	Water	3535	
500-224562-11	PZ-206	Total/NA	Water	3535	
500-224562-12	MW-60	Total/NA	Water	3535	
500-224562-13	MW-6	Total/NA	Water	3535	
MB 320-628958/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-628958/2-A	Lab Control Sample	Total/NA	Water	3535	
500-224562-6 MS - DL	MW-19	Total/NA	Water	3535	
500-224562-6 MS	MW-19	Total/NA	Water	3535	
500-224562-6 MSD - DL	MW-19	Total/NA	Water	3535	
500-224562-6 MSD	MW-19	Total/NA	Water	3535	

QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

LCMS

Prep Batch: 628962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-14	EB-03	Total/NA	Water	3535	
500-224562-15	FB-03	Total/NA	Water	3535	
500-224562-16	PZ-200	Total/NA	Water	3535	
500-224562-17	MW-200	Total/NA	Water	3535	
500-224562-18 - DL	MW-5	Total/NA	Water	3535	
500-224562-18	MW-5	Total/NA	Water	3535	
500-224562-19	MW-220	Total/NA	Water	3535	
500-224562-20	MW-16	Total/NA	Water	3535	
500-224562-21	MW-15	Total/NA	Water	3535	
500-224562-21 - DL	MW-15	Total/NA	Water	3535	
500-224562-22 - DL	MW-3	Total/NA	Water	3535	
500-224562-22	MW-3	Total/NA	Water	3535	
500-224562-23	MW-8	Total/NA	Water	3535	
500-224562-23 - DL	MW-8	Total/NA	Water	3535	
500-224562-24 - DL	MW-7	Total/NA	Water	3535	
500-224562-24	MW-7	Total/NA	Water	3535	
500-224562-25	PZ-214	Total/NA	Water	3535	
500-224562-26	MW-31	Total/NA	Water	3535	
500-224562-26 - DL	MW-31	Total/NA	Water	3535	
500-224562-27	MW-209	Total/NA	Water	3535	
MB 320-628962/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-628962/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-628962/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 628963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-28	MW-209 DUP	Total/NA	Water	3535	
500-224562-29	EB-08	Total/NA	Water	3535	
500-224562-30	FB-08	Total/NA	Water	3535	
500-224562-31	MW-221	Total/NA	Water	3535	
500-224562-34	MW-9	Total/NA	Water	3535	
500-224562-35	EB-09	Total/NA	Water	3535	
500-224562-36	FB-09	Total/NA	Water	3535	
MB 320-628963/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-628963/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-628963/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 630489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-1	AECOM MW-18	Total/NA	Water	537 (modified)	628958
500-224562-2	AECOM MW-19	Total/NA	Water	537 (modified)	628958
500-224562-3	MW-17	Total/NA	Water	537 (modified)	628958
500-224562-4	FB-01	Total/NA	Water	537 (modified)	628958
500-224562-5	EB-01	Total/NA	Water	537 (modified)	628958
500-224562-6	MW-19	Total/NA	Water	537 (modified)	628958
500-224562-7	MW-19 DUP	Total/NA	Water	537 (modified)	628958
500-224562-8	MW-37	Total/NA	Water	537 (modified)	628958
500-224562-9	MW-233	Total/NA	Water	537 (modified)	628958
500-224562-10	MW-67	Total/NA	Water	537 (modified)	628958
500-224562-11	PZ-206	Total/NA	Water	537 (modified)	628958
500-224562-12	MW-60	Total/NA	Water	537 (modified)	628958

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

LCMS (Continued)

Analysis Batch: 630489 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-628958/1-A	Method Blank	Total/NA	Water	537 (modified)	628958
LCS 320-628958/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	628958
500-224562-6 MS	MW-19	Total/NA	Water	537 (modified)	628958
500-224562-6 MSD	MW-19	Total/NA	Water	537 (modified)	628958

Analysis Batch: 630496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-14	EB-03	Total/NA	Water	537 (modified)	628962
500-224562-15	FB-03	Total/NA	Water	537 (modified)	628962
500-224562-16	PZ-200	Total/NA	Water	537 (modified)	628962
500-224562-17	MW-200	Total/NA	Water	537 (modified)	628962
500-224562-18	MW-5	Total/NA	Water	537 (modified)	628962
500-224562-19	MW-220	Total/NA	Water	537 (modified)	628962
500-224562-20	MW-16	Total/NA	Water	537 (modified)	628962
500-224562-21	MW-15	Total/NA	Water	537 (modified)	628962
500-224562-22	MW-3	Total/NA	Water	537 (modified)	628962
500-224562-23	MW-8	Total/NA	Water	537 (modified)	628962
500-224562-24	MW-7	Total/NA	Water	537 (modified)	628962
500-224562-25	PZ-214	Total/NA	Water	537 (modified)	628962
500-224562-27	MW-209	Total/NA	Water	537 (modified)	628962
MB 320-628962/1-A	Method Blank	Total/NA	Water	537 (modified)	628962
LCS 320-628962/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	628962
LCSD 320-628962/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	628962

Analysis Batch: 630502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-28	MW-209 DUP	Total/NA	Water	537 (modified)	628963
500-224562-29	EB-08	Total/NA	Water	537 (modified)	628963
500-224562-30	FB-08	Total/NA	Water	537 (modified)	628963
500-224562-31	MW-221	Total/NA	Water	537 (modified)	628963
500-224562-35	EB-09	Total/NA	Water	537 (modified)	628963
500-224562-36	FB-09	Total/NA	Water	537 (modified)	628963
MB 320-628963/1-A	Method Blank	Total/NA	Water	537 (modified)	628963
LCS 320-628963/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	628963
LCSD 320-628963/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	628963

Analysis Batch: 631597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-34	MW-9	Total/NA	Water	537 (modified)	628963

Analysis Batch: 631830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-1 - DL	AECOM MW-18	Total/NA	Water	537 (modified)	628958
500-224562-6 - DL	MW-19	Total/NA	Water	537 (modified)	628958
500-224562-7 - DL	MW-19 DUP	Total/NA	Water	537 (modified)	628958
500-224562-13	MW-6	Total/NA	Water	537 (modified)	628958
500-224562-18 - DL	MW-5	Total/NA	Water	537 (modified)	628962
500-224562-21 - DL	MW-15	Total/NA	Water	537 (modified)	628962
500-224562-23 - DL	MW-8	Total/NA	Water	537 (modified)	628962
500-224562-24 - DL	MW-7	Total/NA	Water	537 (modified)	628962
500-224562-26	MW-31	Total/NA	Water	537 (modified)	628962

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

LCMS (Continued)

Analysis Batch: 631830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-6 MS - DL	MW-19	Total/NA	Water	537 (modified)	628958
500-224562-6 MSD - DL	MW-19	Total/NA	Water	537 (modified)	628958

Analysis Batch: 632222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-2 - DL	AECOM MW-19	Total/NA	Water	537 (modified)	628958
500-224562-3 - DL	MW-17	Total/NA	Water	537 (modified)	628958
500-224562-26 - DL	MW-31	Total/NA	Water	537 (modified)	628962

Analysis Batch: 632964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-8 - DL	MW-37	Total/NA	Water	537 (modified)	628958
500-224562-22 - DL	MW-3	Total/NA	Water	537 (modified)	628962

Prep Batch: 636130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-32	MW-12	Total/NA	Water	3535	
500-224562-33	MW-12 DUP	Total/NA	Water	3535	
MB 320-636130/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-636130/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-636130/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 636491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-32	MW-12	Total/NA	Water	537 (modified)	636130
MB 320-636130/1-A	Method Blank	Total/NA	Water	537 (modified)	636130
LCS 320-636130/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	636130
LCSD 320-636130/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	636130

Analysis Batch: 637154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-33	MW-12 DUP	Total/NA	Water	537 (modified)	636130

Metals

Prep Batch: 686689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-6	MW-19	Dissolved	Water	3005A	
500-224562-7	MW-19 DUP	Dissolved	Water	3005A	
500-224562-12	MW-60	Dissolved	Water	3005A	
500-224562-13	MW-6	Dissolved	Water	3005A	
500-224562-14	EB-03	Dissolved	Water	3005A	
500-224562-32	MW-12	Dissolved	Water	3005A	
500-224562-33	MW-12 DUP	Dissolved	Water	3005A	
500-224562-35	EB-09	Dissolved	Water	3005A	
MB 500-686689/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-686689/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-224562-6 MS	MW-19	Dissolved	Water	3005A	
500-224562-6 MSD	MW-19	Dissolved	Water	3005A	
500-224562-6 DU	MW-19	Dissolved	Water	3005A	

QC Association Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Metals

Analysis Batch: 687308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224562-6	MW-19	Dissolved	Water	6020A	686689
500-224562-7	MW-19 DUP	Dissolved	Water	6020A	686689
500-224562-12	MW-60	Dissolved	Water	6020A	686689
500-224562-13	MW-6	Dissolved	Water	6020A	686689
500-224562-14	EB-03	Dissolved	Water	6020A	686689
500-224562-32	MW-12	Dissolved	Water	6020A	686689
500-224562-33	MW-12 DUP	Dissolved	Water	6020A	686689
500-224562-35	EB-09	Dissolved	Water	6020A	686689
MB 500-686689/1-A	Method Blank	Total Recoverable	Water	6020A	686689
LCS 500-686689/2-A	Lab Control Sample	Total Recoverable	Water	6020A	686689
500-224562-6 MS	MW-19	Dissolved	Water	6020A	686689
500-224562-6 MSD	MW-19	Dissolved	Water	6020A	686689
500-224562-6 DU	MW-19	Dissolved	Water	6020A	686689

Surrogate Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-224562-2	AECOM MW-19	98	92	92	94
500-224562-3	MW-17	97	95	94	93
500-224562-5	EB-01	99	94	93	93
500-224562-6	MW-19	97	95	93	93
500-224562-6 MS	MW-19	103	95	105	105
500-224562-6 MSD	MW-19	106	95	102	104
500-224562-7	MW-19 DUP	98	96	94	93
500-224562-8	MW-37	98	96	95	93
500-224562-14	EB-03	99	95	93	93
500-224562-18 - DL	MW-5	94	98	96	93
500-224562-18	MW-5	93	91	106	105
500-224562-20	MW-16	100	96	96	92
500-224562-21	MW-15	103	97	95	91
500-224562-21 - DL	MW-15	96	95	92	93
500-224562-22	MW-3	99	94	94	93
500-224562-23	MW-8	99	95	95	92
500-224562-26	MW-31	96	95	95	93
500-224562-27	MW-209	100	97	95	91
500-224562-28	MW-209 DUP	99	98	97	92
500-224562-29	EB-08	100	97	95	93
500-224562-34	MW-9	94	98	99	92
500-224562-35	EB-09	101	96	96	93
500-224562-37	TRIP BLANK 2	82	110	108	90
500-224562-38	TRIP BLANK 3	85	110	107	91
LCS 500-683229/4	Lab Control Sample	82	106	99	97
LCS 500-683234/4	Lab Control Sample	99	87	86	95
LCS 500-683417/4	Lab Control Sample	102	94	102	105
MB 500-683229/7	Method Blank	84	108	104	95
MB 500-683234/6	Method Blank	102	93	93	94
MB 500-683417/6	Method Blank	110	95	107	110

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (30-120)	DCBP1 (30-140)
500-224562-6	MW-19	69	70
500-224562-6 MS	MW-19	65	79
500-224562-6 MSD	MW-19	116	164 S1+
500-224562-7	MW-19 DUP	66	79
500-224562-8	MW-37	67	57
500-224562-9	MW-233	68	83
500-224562-10	MW-67	64	90

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Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (30-120)	DCBP1 (30-140)
500-224562-12	MW-60	71	55
500-224562-13	MW-6	47	74
500-224562-14	EB-03	57	67
LCS 500-682605/2-A	Lab Control Sample	75	114
MB 500-682605/1-A	Method Blank	90	122

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-683229/7
Matrix: Water
Analysis Batch: 683229

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 17:09	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 17:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 17:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 17:09	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 17:09	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 17:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 17:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 17:09	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 17:09	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 17:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 17:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 17:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 17:09	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 17:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 17:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 17:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 17:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 17:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 17:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 17:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 17:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 17:09	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 17:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 17:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 17:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 17:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 17:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 17:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 17:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 17:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 17:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 17:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 17:09	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 17:09	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/22 17:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 17:09	1
Naphthalene	0.466	J	1.0	0.34	ug/L			11/04/22 17:09	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 17:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/22 17:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/22 17:09	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 17:09	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 17:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 17:09	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 17:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 17:09	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 17:09	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 17:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 17:09	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-683229/7
Matrix: Water
Analysis Batch: 683229

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 17:09	1
1,2,3-Trichlorobenzene	0.513	J	1.0	0.46	ug/L			11/04/22 17:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 17:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 17:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 17:09	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/22 17:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 17:09	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 17:09	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/04/22 17:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/22 17:09	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 17:09	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 17:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	84		72 - 124		11/04/22 17:09	1
Dibromofluoromethane (Surr)	108		75 - 120		11/04/22 17:09	1
1,2-Dichloroethane-d4 (Surr)	104		75 - 126		11/04/22 17:09	1
Toluene-d8 (Surr)	95		75 - 120		11/04/22 17:09	1

Lab Sample ID: LCS 500-683229/4
Matrix: Water
Analysis Batch: 683229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	54.9		ug/L		110	70 - 122
Bromochloromethane	50.0	60.0		ug/L		120	65 - 122
Bromodichloromethane	50.0	57.1		ug/L		114	69 - 120
Bromoform	50.0	62.6		ug/L		125	56 - 132
Bromomethane	50.0	55.4		ug/L		111	40 - 152
Carbon tetrachloride	50.0	64.6		ug/L		129	59 - 133
Chlorobenzene	50.0	54.6		ug/L		109	70 - 120
Chloroethane	50.0	51.7		ug/L		103	48 - 136
Chloroform	50.0	55.8		ug/L		112	70 - 120
Chloromethane	50.0	36.9		ug/L		74	56 - 152
2-Chlorotoluene	50.0	51.3		ug/L		103	70 - 125
4-Chlorotoluene	50.0	49.9		ug/L		100	68 - 124
cis-1,2-Dichloroethene	50.0	56.1		ug/L		112	70 - 125
cis-1,3-Dichloropropene	50.0	49.0		ug/L		98	64 - 127
Dibromochloromethane	50.0	56.6		ug/L		113	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.7		ug/L		81	56 - 123
1,2-Dibromoethane	50.0	48.3		ug/L		97	70 - 125
Dibromomethane	50.0	54.2		ug/L		108	70 - 120
1,2-Dichlorobenzene	50.0	53.2		ug/L		106	70 - 125
1,3-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 125
1,4-Dichlorobenzene	50.0	51.9		ug/L		104	70 - 120
Dichlorodifluoromethane	50.0	40.6		ug/L		81	40 - 159
1,1-Dichloroethane	50.0	51.3		ug/L		103	70 - 125

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-683229/4
Matrix: Water
Analysis Batch: 683229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	50.0	56.0		ug/L		112	68 - 127
1,1-Dichloroethene	50.0	58.0		ug/L		116	67 - 122
1,2-Dichloropropane	50.0	47.8		ug/L		96	67 - 130
1,3-Dichloropropane	50.0	48.4		ug/L		97	62 - 136
2,2-Dichloropropane	50.0	51.0		ug/L		102	58 - 139
1,1-Dichloropropene	50.0	54.1		ug/L		108	70 - 121
Ethylbenzene	50.0	50.2		ug/L		100	70 - 123
Hexachlorobutadiene	50.0	61.8		ug/L		124	51 - 150
Isopropylbenzene	50.0	50.7		ug/L		101	70 - 126
Methylene Chloride	50.0	55.4		ug/L		111	69 - 125
Methyl tert-butyl ether	50.0	47.9		ug/L		96	55 - 123
Naphthalene	50.0	42.8		ug/L		86	53 - 144
n-Butylbenzene	50.0	50.2		ug/L		100	68 - 125
N-Propylbenzene	50.0	50.9		ug/L		102	69 - 127
p-Isopropyltoluene	50.0	48.8		ug/L		98	70 - 125
sec-Butylbenzene	50.0	52.3		ug/L		105	70 - 123
Styrene	50.0	53.8		ug/L		108	70 - 120
tert-Butylbenzene	50.0	48.3		ug/L		97	70 - 121
1,1,1,2-Tetrachloroethane	50.0	59.3		ug/L		119	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.3		ug/L		93	62 - 140
Tetrachloroethene	50.0	63.3		ug/L		127	70 - 128
Toluene	50.0	51.7		ug/L		103	70 - 125
trans-1,2-Dichloroethene	50.0	56.3		ug/L		113	70 - 125
trans-1,3-Dichloropropene	50.0	46.7		ug/L		93	62 - 128
1,2,3-Trichlorobenzene	50.0	50.4		ug/L		101	51 - 145
1,2,4-Trichlorobenzene	50.0	54.8		ug/L		110	57 - 137
1,1,1-Trichloroethane	50.0	58.4		ug/L		117	70 - 125
1,1,2-Trichloroethane	50.0	50.3		ug/L		101	71 - 130
Trichloroethene	50.0	55.7		ug/L		111	70 - 125
Trichlorofluoromethane	50.0	54.4		ug/L		109	55 - 128
1,2,3-Trichloropropane	50.0	44.6		ug/L		89	50 - 133
1,2,4-Trimethylbenzene	50.0	52.0		ug/L		104	70 - 123
1,3,5-Trimethylbenzene	50.0	51.8		ug/L		104	70 - 123
Vinyl chloride	50.0	35.6		ug/L		71	64 - 126
Xylenes, Total	100	111		ug/L		111	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		72 - 124
Dibromofluoromethane (Surr)	106		75 - 120
1,2-Dichloroethane-d4 (Surr)	99		75 - 126
Toluene-d8 (Surr)	97		75 - 120

Lab Sample ID: MB 500-683234/6
Matrix: Water
Analysis Batch: 683234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/04/22 16:49	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-683234/6
Matrix: Water
Analysis Batch: 683234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/22 16:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/22 16:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/22 16:49	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/22 16:49	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/22 16:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/22 16:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/22 16:49	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/22 16:49	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/22 16:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/22 16:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/22 16:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/22 16:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/22 16:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/22 16:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/22 16:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/22 16:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/22 16:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/22 16:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/22 16:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/22 16:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/22 16:49	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/22 16:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/22 16:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/22 16:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/22 16:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/22 16:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/22 16:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/22 16:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/22 16:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/22 16:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/22 16:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/22 16:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/22 16:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/22 16:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/22 16:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/22 16:49	1
n-Butylbenzene	0.653	J	1.0	0.39	ug/L			11/04/22 16:49	1
N-Propylbenzene	0.616	J	1.0	0.41	ug/L			11/04/22 16:49	1
p-Isopropyltoluene	0.745	J	1.0	0.36	ug/L			11/04/22 16:49	1
sec-Butylbenzene	0.651	J	1.0	0.40	ug/L			11/04/22 16:49	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/22 16:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/22 16:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/22 16:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/22 16:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/22 16:49	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/22 16:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/22 16:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/22 16:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/22 16:49	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-683234/6
Matrix: Water
Analysis Batch: 683234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/22 16:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/22 16:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/22 16:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/22 16:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/22 16:49	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/22 16:49	1
1,2,4-Trimethylbenzene	0.742	J	1.0	0.36	ug/L			11/04/22 16:49	1
1,3,5-Trimethylbenzene	0.782	J	1.0	0.25	ug/L			11/04/22 16:49	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/22 16:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/22 16:49	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		72 - 124		11/04/22 16:49	1
Dibromofluoromethane (Surr)	93		75 - 120		11/04/22 16:49	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 126		11/04/22 16:49	1
Toluene-d8 (Surr)	94		75 - 120		11/04/22 16:49	1

Lab Sample ID: LCS 500-683234/4
Matrix: Water
Analysis Batch: 683234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	48.8		ug/L		98	70 - 122
Bromochloromethane	50.0	43.4		ug/L		87	65 - 122
Bromodichloromethane	50.0	40.4		ug/L		81	69 - 120
Bromoform	50.0	39.5		ug/L		79	56 - 132
Bromomethane	50.0	34.1		ug/L		68	40 - 152
Carbon tetrachloride	50.0	38.4		ug/L		77	59 - 133
Chlorobenzene	50.0	46.4		ug/L		93	70 - 120
Chloroethane	50.0	42.7		ug/L		85	48 - 136
Chloroform	50.0	39.0		ug/L		78	70 - 120
Chloromethane	50.0	57.9		ug/L		116	56 - 152
2-Chlorotoluene	50.0	48.3		ug/L		97	70 - 125
4-Chlorotoluene	50.0	47.7		ug/L		95	68 - 124
cis-1,2-Dichloroethene	50.0	44.2		ug/L		88	70 - 125
cis-1,3-Dichloropropene	50.0	35.1		ug/L		70	64 - 127
Dibromochloromethane	50.0	41.2		ug/L		82	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	32.2		ug/L		64	56 - 123
1,2-Dibromoethane	50.0	37.5		ug/L		75	70 - 125
Dibromomethane	50.0	36.9		ug/L		74	70 - 120
1,2-Dichlorobenzene	50.0	46.3		ug/L		93	70 - 125
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 125
1,4-Dichlorobenzene	50.0	45.2		ug/L		90	70 - 120
Dichlorodifluoromethane	50.0	28.9		ug/L		58	40 - 159
1,1-Dichloroethane	50.0	47.7		ug/L		95	70 - 125
1,2-Dichloroethane	50.0	44.4		ug/L		89	68 - 127
1,1-Dichloroethene	50.0	39.0		ug/L		78	67 - 122

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-683234/4
Matrix: Water
Analysis Batch: 683234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	50.0	50.8		ug/L		102	67 - 130
1,3-Dichloropropane	50.0	38.7		ug/L		77	62 - 136
2,2-Dichloropropane	50.0	40.1		ug/L		80	58 - 139
1,1-Dichloropropene	50.0	41.9		ug/L		84	70 - 121
Ethylbenzene	50.0	46.9		ug/L		94	70 - 123
Hexachlorobutadiene	50.0	50.0		ug/L		100	51 - 150
Isopropylbenzene	50.0	42.9		ug/L		86	70 - 126
Methylene Chloride	50.0	40.2		ug/L		80	69 - 125
Methyl tert-butyl ether	50.0	33.2		ug/L		66	55 - 123
Naphthalene	50.0	36.5		ug/L		73	53 - 144
n-Butylbenzene	50.0	39.9		ug/L		80	68 - 125
N-Propylbenzene	50.0	43.0		ug/L		86	69 - 127
p-Isopropyltoluene	50.0	43.5		ug/L		87	70 - 125
sec-Butylbenzene	50.0	42.1		ug/L		84	70 - 123
Styrene	50.0	40.2		ug/L		80	70 - 120
tert-Butylbenzene	50.0	44.2		ug/L		88	70 - 121
1,1,1,2-Tetrachloroethane	50.0	44.6		ug/L		89	70 - 125
1,1,2,2-Tetrachloroethane	50.0	37.7		ug/L		75	62 - 140
Tetrachloroethene	50.0	47.4		ug/L		95	70 - 128
Toluene	50.0	46.0		ug/L		92	70 - 125
trans-1,2-Dichloroethene	50.0	43.3		ug/L		87	70 - 125
trans-1,3-Dichloropropene	50.0	34.3		ug/L		69	62 - 128
1,2,3-Trichlorobenzene	50.0	45.8		ug/L		92	51 - 145
1,2,4-Trichlorobenzene	50.0	46.4		ug/L		93	57 - 137
1,1,1-Trichloroethane	50.0	40.6		ug/L		81	70 - 125
1,1,2-Trichloroethane	50.0	41.7		ug/L		83	71 - 130
Trichloroethene	50.0	48.3		ug/L		97	70 - 125
Trichlorofluoromethane	50.0	33.5		ug/L		67	55 - 128
1,2,3-Trichloropropane	50.0	37.3		ug/L		75	50 - 133
1,2,4-Trimethylbenzene	50.0	42.6		ug/L		85	70 - 123
1,3,5-Trimethylbenzene	50.0	42.5		ug/L		85	70 - 123
Vinyl chloride	50.0	38.6		ug/L		77	64 - 126
Xylenes, Total	100	87.1		ug/L		87	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		72 - 124
Dibromofluoromethane (Surr)	87		75 - 120
1,2-Dichloroethane-d4 (Surr)	86		75 - 126
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: MB 500-683417/6
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/07/22 10:42	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/07/22 10:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/07/22 10:42	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-683417/6
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/07/22 10:42	1
Bromoform	<0.48		1.0	0.48	ug/L			11/07/22 10:42	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/07/22 10:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/07/22 10:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/07/22 10:42	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/07/22 10:42	1
Chloroform	<0.37		2.0	0.37	ug/L			11/07/22 10:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/07/22 10:42	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/07/22 10:42	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/07/22 10:42	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/07/22 10:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/07/22 10:42	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/07/22 10:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/07/22 10:42	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/07/22 10:42	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/07/22 10:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/07/22 10:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/07/22 10:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/07/22 10:42	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/07/22 10:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/07/22 10:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/07/22 10:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/07/22 10:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/07/22 10:42	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/07/22 10:42	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/07/22 10:42	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/07/22 10:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/07/22 10:42	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/07/22 10:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/07/22 10:42	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/07/22 10:42	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/07/22 10:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/07/22 10:42	1
Naphthalene	0.345	J	1.0	0.34	ug/L			11/07/22 10:42	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/07/22 10:42	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/07/22 10:42	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/07/22 10:42	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/07/22 10:42	1
Styrene	<0.39		1.0	0.39	ug/L			11/07/22 10:42	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/07/22 10:42	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/07/22 10:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/07/22 10:42	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/07/22 10:42	1
Toluene	<0.15		0.50	0.15	ug/L			11/07/22 10:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/07/22 10:42	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/07/22 10:42	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/07/22 10:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/07/22 10:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/07/22 10:42	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-683417/6
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/07/22 10:42	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/07/22 10:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/07/22 10:42	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/07/22 10:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/07/22 10:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/07/22 10:42	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/07/22 10:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/07/22 10:42	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	110		72 - 124		11/07/22 10:42	1
Dibromofluoromethane (Surr)	95		75 - 120		11/07/22 10:42	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		11/07/22 10:42	1
Toluene-d8 (Surr)	110		75 - 120		11/07/22 10:42	1

Lab Sample ID: LCS 500-683417/4
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	48.0		ug/L		96	70 - 120
Bromobenzene	50.0	46.0		ug/L		92	70 - 122
Bromochloromethane	50.0	42.3		ug/L		85	65 - 122
Bromodichloromethane	50.0	48.4		ug/L		97	69 - 120
Bromoform	50.0	42.3		ug/L		85	56 - 132
Bromomethane	50.0	52.8		ug/L		106	40 - 152
Carbon tetrachloride	50.0	48.0		ug/L		96	59 - 133
Chlorobenzene	50.0	47.2		ug/L		94	70 - 120
Chloroethane	50.0	44.6		ug/L		89	48 - 136
Chloroform	50.0	46.3		ug/L		93	70 - 120
Chloromethane	50.0	34.3		ug/L		69	56 - 152
2-Chlorotoluene	50.0	47.3		ug/L		95	70 - 125
4-Chlorotoluene	50.0	49.2		ug/L		98	68 - 124
cis-1,2-Dichloroethene	50.0	47.0		ug/L		94	70 - 125
cis-1,3-Dichloropropene	50.0	47.4		ug/L		95	64 - 127
Dibromochloromethane	50.0	44.1		ug/L		88	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	34.9		ug/L		70	56 - 123
1,2-Dibromoethane	50.0	48.9		ug/L		98	70 - 125
Dibromomethane	50.0	47.8		ug/L		96	70 - 120
1,2-Dichlorobenzene	50.0	45.0		ug/L		90	70 - 125
1,3-Dichlorobenzene	50.0	46.4		ug/L		93	70 - 125
1,4-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 120
Dichlorodifluoromethane	50.0	33.9		ug/L		68	40 - 159
1,1-Dichloroethane	50.0	43.4		ug/L		87	70 - 125
1,2-Dichloroethane	50.0	46.6		ug/L		93	68 - 127
1,1-Dichloroethene	50.0	46.5		ug/L		93	67 - 122
1,2-Dichloropropane	50.0	43.7		ug/L		87	67 - 130
1,3-Dichloropropane	50.0	48.8		ug/L		98	62 - 136

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-683417/4
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	50.0	50.7		ug/L		101	58 - 139
1,1-Dichloropropene	50.0	49.2		ug/L		98	70 - 121
Ethylbenzene	50.0	48.7		ug/L		97	70 - 123
Hexachlorobutadiene	50.0	42.8		ug/L		86	51 - 150
Isopropylbenzene	50.0	46.3		ug/L		93	70 - 126
Methylene Chloride	50.0	45.7		ug/L		91	69 - 125
Methyl tert-butyl ether	50.0	46.7		ug/L		93	55 - 123
Naphthalene	50.0	31.0		ug/L		62	53 - 144
n-Butylbenzene	50.0	48.5		ug/L		97	68 - 125
N-Propylbenzene	50.0	48.3		ug/L		97	69 - 127
p-Isopropyltoluene	50.0	46.3		ug/L		93	70 - 125
sec-Butylbenzene	50.0	47.4		ug/L		95	70 - 123
Styrene	50.0	51.1		ug/L		102	70 - 120
tert-Butylbenzene	50.0	45.4		ug/L		91	70 - 121
1,1,1,2-Tetrachloroethane	50.0	43.7		ug/L		87	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.6		ug/L		87	62 - 140
Tetrachloroethene	50.0	47.4		ug/L		95	70 - 128
Toluene	50.0	48.4		ug/L		97	70 - 125
trans-1,2-Dichloroethene	50.0	47.7		ug/L		95	70 - 125
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	62 - 128
1,2,3-Trichlorobenzene	50.0	35.0		ug/L		70	51 - 145
1,2,4-Trichlorobenzene	50.0	38.8		ug/L		78	57 - 137
1,1,1-Trichloroethane	50.0	49.7		ug/L		99	70 - 125
1,1,2-Trichloroethane	50.0	48.3		ug/L		97	71 - 130
Trichloroethene	50.0	44.7		ug/L		89	70 - 125
Trichlorofluoromethane	50.0	42.4		ug/L		85	55 - 128
1,2,3-Trichloropropane	50.0	47.6		ug/L		95	50 - 133
1,2,4-Trimethylbenzene	50.0	47.2		ug/L		94	70 - 123
1,3,5-Trimethylbenzene	50.0	47.4		ug/L		95	70 - 123
Vinyl chloride	50.0	38.1		ug/L		76	64 - 126
Xylenes, Total	100	101		ug/L		101	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		72 - 124
Dibromofluoromethane (Surr)	94		75 - 120
1,2-Dichloroethane-d4 (Surr)	102		75 - 126
Toluene-d8 (Surr)	105		75 - 120

Lab Sample ID: 500-224562-6 MS
Matrix: Water
Analysis Batch: 683417

Client Sample ID: MW-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.15		50.0	52.5		ug/L		105	70 - 120
Bromobenzene	<0.36		50.0	49.8		ug/L		100	70 - 122
Bromochloromethane	<0.43		50.0	46.6		ug/L		93	65 - 122
Bromodichloromethane	<0.37		50.0	51.3		ug/L		103	69 - 120
Bromoform	<0.48		50.0	43.3		ug/L		87	56 - 132

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-224562-6 MS

Matrix: Water

Analysis Batch: 683417

Client Sample ID: MW-19

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	<0.80		50.0	57.2		ug/L		114	40 - 152
Carbon tetrachloride	<0.38		50.0	52.1		ug/L		104	59 - 133
Chlorobenzene	<0.39		50.0	51.1		ug/L		102	70 - 120
Chloroethane	<0.51		50.0	46.6		ug/L		93	48 - 136
Chloroform	<0.37		50.0	51.6		ug/L		103	70 - 120
Chloromethane	<0.32		50.0	38.4		ug/L		77	56 - 152
2-Chlorotoluene	<0.31		50.0	52.3		ug/L		105	70 - 125
4-Chlorotoluene	<0.35		50.0	53.6		ug/L		107	68 - 124
cis-1,2-Dichloroethene	<0.41		50.0	51.0		ug/L		102	70 - 125
cis-1,3-Dichloropropene	<0.42	F1	50.0	50.7		ug/L		101	64 - 127
Dibromochloromethane	<0.49		50.0	46.7		ug/L		93	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	40.8		ug/L		82	56 - 123
1,2-Dibromoethane	<0.39	F1	50.0	53.1		ug/L		106	70 - 125
Dibromomethane	<0.27	F1	50.0	52.2		ug/L		104	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	49.3		ug/L		99	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	50.2		ug/L		100	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	50.1		ug/L		100	70 - 120
Dichlorodifluoromethane	<0.67		50.0	38.3		ug/L		77	40 - 159
1,1-Dichloroethane	<0.41		50.0	48.6		ug/L		97	70 - 125
1,2-Dichloroethane	<0.39		50.0	51.8		ug/L		104	68 - 127
1,1-Dichloroethene	<0.39		50.0	51.0		ug/L		102	67 - 122
1,2-Dichloropropane	<0.43		50.0	48.0		ug/L		96	67 - 130
1,3-Dichloropropane	<0.36		50.0	53.8		ug/L		108	62 - 136
2,2-Dichloropropane	<0.44		50.0	57.1		ug/L		114	58 - 139
1,1-Dichloropropene	<0.30		50.0	52.6		ug/L		105	70 - 121
Ethylbenzene	<0.18		50.0	52.0		ug/L		104	70 - 123
Hexachlorobutadiene	<0.45		50.0	46.4		ug/L		93	51 - 150
Isopropylbenzene	<0.39		50.0	51.7		ug/L		103	70 - 126
Methylene Chloride	1.7	J	50.0	51.4		ug/L		99	69 - 125
Methyl tert-butyl ether	<0.39	F2	50.0	53.3		ug/L		107	55 - 123
Naphthalene	<0.34	F2	50.0	36.1		ug/L		72	53 - 144
n-Butylbenzene	<0.39		50.0	52.7		ug/L		105	68 - 125
N-Propylbenzene	<0.41		50.0	53.3		ug/L		107	69 - 127
p-Isopropyltoluene	<0.36		50.0	51.4		ug/L		103	70 - 125
sec-Butylbenzene	<0.40		50.0	52.8		ug/L		106	70 - 123
Styrene	<0.39		50.0	53.7		ug/L		107	70 - 120
tert-Butylbenzene	<0.40		50.0	51.4		ug/L		103	70 - 121
1,1,1,2-Tetrachloroethane	<0.46		50.0	47.3		ug/L		95	70 - 125
1,1,1,2,2-Tetrachloroethane	<0.40		50.0	50.3		ug/L		101	62 - 140
Tetrachloroethene	<0.37		50.0	50.0		ug/L		100	70 - 128
Toluene	<0.15		50.0	52.4		ug/L		105	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	53.0		ug/L		106	70 - 125
trans-1,3-Dichloropropene	<0.36	F1 F2	50.0	52.6		ug/L		105	62 - 128
1,2,3-Trichlorobenzene	<0.46	F2	50.0	38.8		ug/L		78	51 - 145
1,2,4-Trichlorobenzene	<0.34	F2	50.0	40.6		ug/L		81	57 - 137
1,1,1-Trichloroethane	<0.38		50.0	55.2		ug/L		110	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	52.6		ug/L		105	71 - 130
Trichloroethene	6.5		50.0	52.8		ug/L		93	70 - 125
Trichlorofluoromethane	<0.43		50.0	45.2		ug/L		90	55 - 128

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-224562-6 MS

Matrix: Water

Analysis Batch: 683417

Client Sample ID: MW-19

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	<0.41	F2	50.0	52.0		ug/L		104	50 - 133
1,2,4-Trimethylbenzene	0.72	J B	50.0	53.0		ug/L		105	70 - 123
1,3,5-Trimethylbenzene	<0.25		50.0	52.5		ug/L		105	70 - 123
Vinyl chloride	<0.20		50.0	42.3		ug/L		85	64 - 126
Xylenes, Total	<0.22		100	109		ug/L		109	70 - 125
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		72 - 124						
Dibromofluoromethane (Surr)	95		75 - 120						
1,2-Dichloroethane-d4 (Surr)	105		75 - 126						
Toluene-d8 (Surr)	105		75 - 120						

Lab Sample ID: 500-224562-6 MSD

Matrix: Water

Analysis Batch: 683417

Client Sample ID: MW-19

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.15		50.0	50.0		ug/L		100	70 - 120	5	20
Bromobenzene	<0.36		50.0	49.6		ug/L		99	70 - 122	0	20
Bromochloromethane	<0.43		50.0	43.7		ug/L		87	65 - 122	6	20
Bromodichloromethane	<0.37		50.0	49.5		ug/L		99	69 - 120	4	20
Bromoform	<0.48		50.0	40.7		ug/L		81	56 - 132	6	20
Bromomethane	<0.80		50.0	50.2		ug/L		100	40 - 152	13	20
Carbon tetrachloride	<0.38		50.0	50.2		ug/L		100	59 - 133	4	20
Chlorobenzene	<0.39		50.0	48.4		ug/L		97	70 - 120	5	20
Chloroethane	<0.51		50.0	44.1		ug/L		88	48 - 136	6	20
Chloroform	<0.37		50.0	48.3		ug/L		97	70 - 120	7	20
Chloromethane	<0.32		50.0	34.4		ug/L		69	56 - 152	11	20
2-Chlorotoluene	<0.31		50.0	51.6		ug/L		103	70 - 125	1	20
4-Chlorotoluene	<0.35		50.0	52.8		ug/L		106	68 - 124	2	20
cis-1,2-Dichloroethene	<0.41		50.0	48.8		ug/L		98	70 - 125	4	20
cis-1,3-Dichloropropene	<0.42	F1	50.0	48.2		ug/L		96	64 - 127	5	20
Dibromochloromethane	<0.49		50.0	44.7		ug/L		89	68 - 125	4	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	36.7		ug/L		73	56 - 123	11	20
1,2-Dibromoethane	<0.39	F1	50.0	49.5		ug/L		99	70 - 125	7	20
Dibromomethane	<0.27	F1	50.0	49.1		ug/L		98	70 - 120	6	20
1,2-Dichlorobenzene	<0.33		50.0	46.8		ug/L		94	70 - 125	5	20
1,3-Dichlorobenzene	<0.40		50.0	48.5		ug/L		97	70 - 125	3	20
1,4-Dichlorobenzene	<0.36		50.0	48.8		ug/L		98	70 - 120	3	20
Dichlorodifluoromethane	<0.67		50.0	34.4		ug/L		69	40 - 159	11	20
1,1-Dichloroethane	<0.41		50.0	45.6		ug/L		91	70 - 125	6	20
1,2-Dichloroethane	<0.39		50.0	47.7		ug/L		95	68 - 127	8	20
1,1-Dichloroethene	<0.39		50.0	49.0		ug/L		98	67 - 122	4	20
1,2-Dichloropropane	<0.43		50.0	45.5		ug/L		91	67 - 130	5	20
1,3-Dichloropropane	<0.36		50.0	50.4		ug/L		101	62 - 136	7	20
2,2-Dichloropropane	<0.44		50.0	54.8		ug/L		110	58 - 139	4	20
1,1-Dichloropropene	<0.30		50.0	50.2		ug/L		100	70 - 121	5	20
Ethylbenzene	<0.18		50.0	50.2		ug/L		100	70 - 123	3	20

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-224562-6 MSD
 Matrix: Water
 Analysis Batch: 683417

Client Sample ID: MW-19
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene	<0.45		50.0	45.5		ug/L		91	51 - 150	2	20
Isopropylbenzene	<0.39		50.0	50.8		ug/L		102	70 - 126	2	20
Methylene Chloride	1.7	J	50.0	48.0		ug/L		93	69 - 125	7	20
Methyl tert-butyl ether	<0.39	F2	50.0	48.8		ug/L		98	55 - 123	9	20
Naphthalene	<0.34	F2	50.0	31.9		ug/L		64	53 - 144	12	20
n-Butylbenzene	<0.39		50.0	51.0		ug/L		102	68 - 125	3	20
N-Propylbenzene	<0.41		50.0	52.7		ug/L		105	69 - 127	1	20
p-Isopropyltoluene	<0.36		50.0	50.1		ug/L		100	70 - 125	2	20
sec-Butylbenzene	<0.40		50.0	51.9		ug/L		104	70 - 123	2	20
Styrene	<0.39		50.0	52.0		ug/L		104	70 - 120	3	20
tert-Butylbenzene	<0.40		50.0	50.7		ug/L		101	70 - 121	1	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	44.7		ug/L		89	70 - 125	6	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	46.9		ug/L		94	62 - 140	7	20
Tetrachloroethene	<0.37		50.0	48.1		ug/L		96	70 - 128	4	20
Toluene	<0.15		50.0	49.6		ug/L		99	70 - 125	5	20
trans-1,2-Dichloroethene	<0.35		50.0	49.7		ug/L		99	70 - 125	6	20
trans-1,3-Dichloropropene	<0.36	F1 F2	50.0	50.0		ug/L		100	62 - 128	5	20
1,2,3-Trichlorobenzene	<0.46	F2	50.0	35.2		ug/L		70	51 - 145	10	20
1,2,4-Trichlorobenzene	<0.34	F2	50.0	37.9		ug/L		76	57 - 137	7	20
1,1,1-Trichloroethane	<0.38		50.0	52.4		ug/L		105	70 - 125	5	20
1,1,2-Trichloroethane	<0.35		50.0	48.9		ug/L		98	71 - 130	7	20
Trichloroethene	6.5		50.0	50.8		ug/L		89	70 - 125	4	20
Trichlorofluoromethane	<0.43		50.0	41.2		ug/L		82	55 - 128	9	20
1,2,3-Trichloropropane	<0.41	F2	50.0	49.5		ug/L		99	50 - 133	5	20
1,2,4-Trimethylbenzene	0.72	J B	50.0	51.0		ug/L		101	70 - 123	4	20
1,3,5-Trimethylbenzene	<0.25		50.0	50.8		ug/L		102	70 - 123	3	20
Vinyl chloride	<0.20		50.0	37.2		ug/L		74	64 - 126	13	20
Xylenes, Total	<0.22		100	104		ug/L		104	70 - 125	4	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	106		72 - 124
Dibromofluoromethane (Surr)	95		75 - 120
1,2-Dichloroethane-d4 (Surr)	102		75 - 126
Toluene-d8 (Surr)	104		75 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-682605/1-A
 Matrix: Water
 Analysis Batch: 683153

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 682605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		11/02/22 09:25	11/04/22 10:59	1
PCB-1221	<0.20		0.40	0.20	ug/L		11/02/22 09:25	11/04/22 10:59	1
PCB-1232	<0.20		0.40	0.20	ug/L		11/02/22 09:25	11/04/22 10:59	1
PCB-1242	<0.20		0.40	0.20	ug/L		11/02/22 09:25	11/04/22 10:59	1
PCB-1248	<0.20		0.40	0.20	ug/L		11/02/22 09:25	11/04/22 10:59	1
PCB-1254	<0.20		0.40	0.20	ug/L		11/02/22 09:25	11/04/22 10:59	1
PCB-1260	<0.070		0.40	0.070	ug/L		11/02/22 09:25	11/04/22 10:59	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	90		30 - 120	11/02/22 09:25	11/04/22 10:59	1
DCB Decachlorobiphenyl	122		30 - 140	11/02/22 09:25	11/04/22 10:59	1

Lab Sample ID: LCS 500-682605/2-A
Matrix: Water
Analysis Batch: 683153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 682605

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	4.00	3.46		ug/L		87	56 - 120
PCB-1260	4.00	4.50		ug/L		112	53 - 137

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	75		30 - 120
DCB Decachlorobiphenyl	114		30 - 140

Lab Sample ID: 500-224562-6 MS
Matrix: Water
Analysis Batch: 683153

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 682605

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
PCB-1016	<0.060		3.51	2.62		ug/L		75	56 - 120
PCB-1260	<0.062		3.51	3.22		ug/L		92	53 - 137

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	65		30 - 120
DCB Decachlorobiphenyl	79		30 - 140

Lab Sample ID: 500-224562-6 MSD
Matrix: Water
Analysis Batch: 683153

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 682605

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	
				Result	Qualifier					RPD	Limit
PCB-1016	<0.060		3.34	2.44		ug/L		73	56 - 120	7	20
PCB-1260	<0.062		3.34	3.02		ug/L		90	53 - 137	6	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	116		30 - 120
DCB Decachlorobiphenyl	164	S1+	30 - 140

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-628958/1-A
Matrix: Water
Analysis Batch: 630489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628958

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/31/22 04:40	11/06/22 06:31	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628958/1-A
Matrix: Water
Analysis Batch: 630489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628958

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 04:40	11/06/22 06:31	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 04:40	11/06/22 06:31	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 04:40	11/06/22 06:31	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 04:40	11/06/22 06:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 04:40	11/06/22 06:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 04:40	11/06/22 06:31	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 04:40	11/06/22 06:31	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 04:40	11/06/22 06:31	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 04:40	11/06/22 06:31	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 04:40	11/06/22 06:31	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 04:40	11/06/22 06:31	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 04:40	11/06/22 06:31	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 04:40	11/06/22 06:31	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 04:40	11/06/22 06:31	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 04:40	11/06/22 06:31	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	92		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C5 PFPeA	97		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C2 PFHxA	101		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C4 PFHpA	97		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C4 PFOA	97		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C5 PFNA	94		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C2 PFDA	109		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C2 PFUnA	103		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C2 PFDoA	99		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C2 PFTeDA	100		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C3 PFBS	100		25 - 150	10/31/22 04:40	11/06/22 06:31	1
18O2 PFHxS	105		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C4 PFOS	93		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C8 FOSA	100		10 - 150	10/31/22 04:40	11/06/22 06:31	1
d3-NMeFOSAA	94		25 - 150	10/31/22 04:40	11/06/22 06:31	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628958/1-A
Matrix: Water
Analysis Batch: 630489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628958

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	94		25 - 150	10/31/22 04:40	11/06/22 06:31	1
d-N-MeFOSA-M	78		10 - 150	10/31/22 04:40	11/06/22 06:31	1
d-N-EtFOSA-M	79		10 - 150	10/31/22 04:40	11/06/22 06:31	1
d7-N-MeFOSE-M	89		10 - 150	10/31/22 04:40	11/06/22 06:31	1
d9-N-EtFOSE-M	89		10 - 150	10/31/22 04:40	11/06/22 06:31	1
M2-4:2 FTS	84		25 - 150	10/31/22 04:40	11/06/22 06:31	1
M2-6:2 FTS	77		25 - 150	10/31/22 04:40	11/06/22 06:31	1
M2-8:2 FTS	84		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C3 HFPO-DA	93		25 - 150	10/31/22 04:40	11/06/22 06:31	1
13C2 10:2 FTS	77		25 - 150	10/31/22 04:40	11/06/22 06:31	1

Lab Sample ID: LCS 320-628958/2-A
Matrix: Water
Analysis Batch: 630489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	42.8		ng/L		107	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.2		ng/L		106	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	38.5		ng/L		96	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	41.4		ng/L		104	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	41.6		ng/L		104	60 - 135
Perfluorononanoic acid (PFNA)	40.0	42.7		ng/L		107	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	37.9		ng/L		95	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	40.3		ng/L		101	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	41.8		ng/L		104	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	44.1		ng/L		110	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	37.3		ng/L		93	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	33.8		ng/L		95	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.6		ng/L		95	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.6		ng/L		95	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	42.8		ng/L		112	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	38.3		ng/L		103	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	39.2		ng/L		102	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	37.0		ng/L		96	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	32.9		ng/L		85	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	37.7		ng/L		94	60 - 135
NEtFOSA	40.0	42.2		ng/L		105	60 - 135
NMeFOSA	40.0	40.6		ng/L		101	60 - 135

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628958/2-A
Matrix: Water
Analysis Batch: 630489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	40.0	40.0		ng/L		100	60 - 135
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	40.0	41.9		ng/L		105	60 - 135
NMeFOSE	40.0	42.0		ng/L		105	60 - 135
NEtFOSE	40.0	40.3		ng/L		101	60 - 135
4:2 FTS	37.5	36.7		ng/L		98	60 - 135
6:2 FTS	38.1	40.9		ng/L		108	60 - 135
8:2 FTS	38.4	40.1		ng/L		104	60 - 135
DONA	37.8	45.1		ng/L		120	60 - 135
HFPO-DA (GenX)	40.0	36.4		ng/L		91	60 - 135
F-53B Major	37.4	39.3		ng/L		105	60 - 135
F-53B Minor	37.8	41.9		ng/L		111	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	96		25 - 150
13C5 PFPeA	95		25 - 150
13C2 PFHxA	104		25 - 150
13C4 PFHpA	96		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	93		25 - 150
13C2 PFDA	96		25 - 150
13C2 PFUnA	95		25 - 150
13C2 PFDoA	93		25 - 150
13C2 PFTeDA	91		25 - 150
13C3 PFBS	104		25 - 150
18O2 PFHxS	101		25 - 150
13C4 PFOS	92		25 - 150
13C8 FOSA	97		10 - 150
d3-NMeFOSAA	87		25 - 150
d5-NEtFOSAA	85		25 - 150
d-N-MeFOSA-M	78		10 - 150
d-N-EtFOSA-M	79		10 - 150
d7-N-MeFOSE-M	87		10 - 150
d9-N-EtFOSE-M	86		10 - 150
M2-4:2 FTS	83		25 - 150
M2-6:2 FTS	74		25 - 150
M2-8:2 FTS	70		25 - 150
13C3 HFPO-DA	87		25 - 150
13C2 10:2 FTS	71		25 - 150

Lab Sample ID: 500-224562-6 MS
Matrix: Water
Analysis Batch: 630489

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 628958

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	4.5	J	37.0	44.0		ng/L		107	70 - 130
Perfluoropentanoic acid (PFPeA)	<0.46		37.0	39.6		ng/L		107	70 - 130
Perfluorohexanoic acid (PFHxA)	9.7		37.0	47.1		ng/L		101	70 - 130

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 500-224562-6 MS

Matrix: Water

Analysis Batch: 630489

Client Sample ID: MW-19

Prep Type: Total/NA

Prep Batch: 628958

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result			Result	Qualifier				
Perfluoroheptanoic acid (PFHpA)	51		37.0	89.9		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	1.3	J	37.0	41.0		ng/L		107	70 - 130
Perfluorodecanoic acid (PFDA)	<0.29		37.0	38.1		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	<1.0		37.0	37.0		ng/L		100	70 - 130
Perfluorododecanoic acid (PFDoA)	<0.52		37.0	38.7		ng/L		104	70 - 130
Perfluorotridecanoic acid (PFTriA)	<1.2		37.0	39.4		ng/L		106	70 - 130
Perfluorotetradecanoic acid (PFTeA)	<0.69		37.0	35.0		ng/L		95	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<0.19		32.9	32.3		ng/L		98	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<0.28		34.7	37.6		ng/L		108	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	2.8		33.8	34.6		ng/L		94	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		35.3	37.0		ng/L		105	70 - 130
Perfluorooctanesulfonic acid (PFOS)	2.7		34.4	37.7		ng/L		102	70 - 130
Perfluorononanesulfonic acid (PFNS)	<0.35		35.6	37.1		ng/L		104	70 - 130
Perfluorodecanesulfonic acid (PFDS)	<0.30		35.7	35.2		ng/L		99	70 - 130
Perfluorododecanesulfonic acid (PFDoS)	<0.92		35.9	32.1		ng/L		89	70 - 130
Perfluorooctanesulfonamide (FOSA)	<0.93		37.0	35.1		ng/L		95	70 - 130
NEtFOSA	<0.83		37.0	36.7		ng/L		99	70 - 130
NMeFOSA	<0.41		37.0	37.6		ng/L		101	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		37.0	38.8		ng/L		105	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		37.0	37.4		ng/L		101	70 - 130
NMeFOSE	<1.3		37.0	35.7		ng/L		96	70 - 130
NEtFOSE	<0.81		37.0	39.1		ng/L		106	70 - 130
4:2 FTS	<0.23		34.7	33.8		ng/L		97	70 - 130
6:2 FTS	<2.4		35.2	35.4		ng/L		100	70 - 130
8:2 FTS	<0.44		35.5	36.0		ng/L		101	70 - 130
DONA	<0.38		35.0	37.7		ng/L		108	70 - 130
HFPO-DA (GenX)	<1.4		37.0	36.3		ng/L		98	70 - 130
F-53B Major	<0.23		34.6	36.8		ng/L		107	70 - 130
F-53B Minor	<0.30		35.0	36.2		ng/L		104	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C4 PFBA	48		25 - 150
13C5 PFPeA	67		25 - 150
13C2 PFHxA	88		25 - 150
13C4 PFHpA	96		25 - 150
13C5 PFNA	103		25 - 150
13C2 PFDA	111		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 500-224562-6 MS
Matrix: Water
Analysis Batch: 630489

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 628958

<i>Isotope Dilution</i>	<i>MS</i>	<i>MS</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>		
13C2 PFUnA	109		25 - 150
13C2 PFDoA	102		25 - 150
13C2 PFTeDA	103		25 - 150
13C3 PFBS	98		25 - 150
18O2 PFHxS	112		25 - 150
13C4 PFOS	100		25 - 150
13C8 FOSA	114		10 - 150
d3-NMeFOSAA	99		25 - 150
d5-NEtFOSAA	104		25 - 150
d-N-MeFOSA-M	86		10 - 150
d-N-EtFOSA-M	86		10 - 150
d7-N-MeFOSE-M	92		10 - 150
d9-N-EtFOSE-M	85		10 - 150
M2-4:2 FTS	139		25 - 150
M2-6:2 FTS	118		25 - 150
M2-8:2 FTS	105		25 - 150
13C3 HFPO-DA	80		25 - 150
13C2 10:2 FTS	86		25 - 150

Lab Sample ID: 500-224562-6 MSD
Matrix: Water
Analysis Batch: 630489

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 628958

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MSD</i>	<i>MSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>RPD</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	<i>RPD</i>		
Perfluorobutanoic acid (PFBA)	4.5	J	37.9	45.2		ng/L		108	70 - 130	3		30
Perfluoropentanoic acid (PFPeA)	<0.46		37.9	44.9		ng/L		119	70 - 130	13		30
Perfluorohexanoic acid (PFHxA)	9.7		37.9	47.0		ng/L		98	70 - 130	0		30
Perfluoroheptanoic acid (PFHpA)	51		37.9	91.8		ng/L		107	70 - 130	2		30
Perfluorononanoic acid (PFNA)	1.3	J	37.9	42.6		ng/L		109	70 - 130	4		30
Perfluorodecanoic acid (PFDA)	<0.29		37.9	38.9		ng/L		103	70 - 130	2		30
Perfluoroundecanoic acid (PFUnA)	<1.0		37.9	38.7		ng/L		102	70 - 130	5		30
Perfluorododecanoic acid (PFDoA)	<0.52		37.9	36.4		ng/L		96	70 - 130	6		30
Perfluorotridecanoic acid (PFTriA)	<1.2		37.9	37.7		ng/L		100	70 - 130	4		30
Perfluorotetradecanoic acid (PFTeA)	<0.69		37.9	38.5		ng/L		102	70 - 130	10		30
Perfluorobutanesulfonic acid (PFBS)	<0.19		33.6	31.5		ng/L		94	70 - 130	3		30
Perfluoropentanesulfonic acid (PFPeS)	<0.28		35.5	38.4		ng/L		108	70 - 130	2		30
Perfluorohexanesulfonic acid (PFHxS)	2.8		34.5	35.7		ng/L		95	70 - 130	3		30
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		36.1	39.8		ng/L		110	70 - 130	7		30
Perfluorooctanesulfonic acid (PFOS)	2.7		35.2	38.7		ng/L		102	70 - 130	3		30
Perfluorononanesulfonic acid (PFNS)	<0.35		36.4	37.2		ng/L		102	70 - 130	0		30
Perfluorodecanesulfonic acid (PFDS)	<0.30		36.5	34.7		ng/L		95	70 - 130	1		30

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 500-224562-6 MSD

Matrix: Water

Analysis Batch: 630489

Client Sample ID: MW-19

Prep Type: Total/NA

Prep Batch: 628958

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorododecanesulfonic acid (PFDoS)	<0.92		36.7	30.8		ng/L		84	70 - 130	4	30
Perfluorooctanesulfonamide (FOSA)	<0.93		37.9	37.5		ng/L		99	70 - 130	6	30
NEtFOSA	<0.83		37.9	39.3		ng/L		104	70 - 130	7	30
NMeFOSA	<0.41		37.9	38.7		ng/L		102	70 - 130	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		37.9	38.3		ng/L		101	70 - 130	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		37.9	38.5		ng/L		102	70 - 130	3	30
NMeFOSE	<1.3		37.9	39.8		ng/L		105	70 - 130	11	30
NEtFOSE	<0.81		37.9	37.0		ng/L		98	70 - 130	5	30
4:2 FTS	<0.23		35.5	34.9		ng/L		98	70 - 130	3	30
6:2 FTS	<2.4		36.0	37.6		ng/L		104	70 - 130	6	30
8:2 FTS	<0.44		36.3	36.8		ng/L		101	70 - 130	2	30
DONA	<0.38		35.7	38.5		ng/L		108	70 - 130	2	30
HFPO-DA (GenX)	<1.4		37.9	38.6		ng/L		102	70 - 130	6	30
F-53B Major	<0.23		35.4	36.5		ng/L		103	70 - 130	1	30
F-53B Minor	<0.30		35.7	37.0		ng/L		103	70 - 130	2	30

Isotope Dilution	MSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	46		25 - 150
13C5 PFPeA	65		25 - 150
13C2 PFHxA	86		25 - 150
13C4 PFHpA	93		25 - 150
13C5 PFNA	97		25 - 150
13C2 PFDA	107		25 - 150
13C2 PFUnA	106		25 - 150
13C2 PFDaA	101		25 - 150
13C2 PFTeDA	92		25 - 150
13C3 PFBS	95		25 - 150
18O2 PFHxS	110		25 - 150
13C4 PFOS	97		25 - 150
13C8 FOSA	110		10 - 150
d3-NMeFOSAA	95		25 - 150
d5-NEtFOSAA	98		25 - 150
d-N-MeFOSA-M	81		10 - 150
d-N-EtFOSA-M	78		10 - 150
d7-N-MeFOSE-M	80		10 - 150
d9-N-EtFOSE-M	80		10 - 150
M2-4:2 FTS	135		25 - 150
M2-6:2 FTS	116		25 - 150
M2-8:2 FTS	99		25 - 150
13C3 HFPO-DA	80		25 - 150
13C2 10:2 FTS	82		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628962/1-A
Matrix: Water
Analysis Batch: 630496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628962

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 05:09	11/06/22 10:43	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 05:09	11/06/22 10:43	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 05:09	11/06/22 10:43	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 05:09	11/06/22 10:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 05:09	11/06/22 10:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 05:09	11/06/22 10:43	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 05:09	11/06/22 10:43	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 05:09	11/06/22 10:43	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 05:09	11/06/22 10:43	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 05:09	11/06/22 10:43	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 05:09	11/06/22 10:43	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 05:09	11/06/22 10:43	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 05:09	11/06/22 10:43	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 05:09	11/06/22 10:43	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 05:09	11/06/22 10:43	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	92		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C5 PFPeA	97		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C2 PFHxA	100		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C4 PFHpA	96		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C4 PFOA	96		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C5 PFNA	91		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C2 PFDA	101		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C2 PFUnA	98		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C2 PFDoA	98		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C2 PFTeDA	101		25 - 150	10/31/22 05:09	11/06/22 10:43	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628962/1-A
Matrix: Water
Analysis Batch: 630496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628962

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	106		25 - 150	10/31/22 05:09	11/06/22 10:43	1
18O2 PFHxS	103		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C4 PFOS	93		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C8 FOSA	99		10 - 150	10/31/22 05:09	11/06/22 10:43	1
d3-NMeFOSAA	90		25 - 150	10/31/22 05:09	11/06/22 10:43	1
d5-NEtFOSAA	93		25 - 150	10/31/22 05:09	11/06/22 10:43	1
d-N-MeFOSA-M	81		10 - 150	10/31/22 05:09	11/06/22 10:43	1
d-N-EtFOSA-M	85		10 - 150	10/31/22 05:09	11/06/22 10:43	1
d7-N-MeFOSE-M	89		10 - 150	10/31/22 05:09	11/06/22 10:43	1
d9-N-EtFOSE-M	92		10 - 150	10/31/22 05:09	11/06/22 10:43	1
M2-4:2 FTS	82		25 - 150	10/31/22 05:09	11/06/22 10:43	1
M2-6:2 FTS	79		25 - 150	10/31/22 05:09	11/06/22 10:43	1
M2-8:2 FTS	75		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C3 HFPO-DA	90		25 - 150	10/31/22 05:09	11/06/22 10:43	1
13C2 10:2 FTS	76		25 - 150	10/31/22 05:09	11/06/22 10:43	1

Lab Sample ID: LCS 320-628962/2-A
Matrix: Water
Analysis Batch: 630496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	47.9		ng/L		120	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	41.6		ng/L		104	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	44.8		ng/L		112	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	46.6		ng/L		116	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	45.7		ng/L		114	60 - 135
Perfluorononanoic acid (PFNA)	40.0	46.2		ng/L		116	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	41.9		ng/L		105	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	44.5		ng/L		111	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	43.6		ng/L		109	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	46.1		ng/L		115	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	41.2		ng/L		103	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	37.2		ng/L		105	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	40.1		ng/L		107	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	39.6		ng/L		109	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	47.1		ng/L		123	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	42.6		ng/L		114	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	43.5		ng/L		113	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.9		ng/L		109	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	42.0		ng/L		108	60 - 135

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628962/2-A
Matrix: Water
Analysis Batch: 630496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	41.8		ng/L		105	60 - 135
NEtFOSA	40.0	45.4		ng/L		113	60 - 135
NMeFOSA	40.0	42.5		ng/L		106	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.0		ng/L		105	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	44.1		ng/L		110	60 - 135
NMeFOSE	40.0	48.0		ng/L		120	60 - 135
NEtFOSE	40.0	44.1		ng/L		110	60 - 135
4:2 FTS	37.5	40.0		ng/L		107	60 - 135
6:2 FTS	38.1	41.2		ng/L		108	60 - 135
8:2 FTS	38.4	41.1		ng/L		107	60 - 135
DONA	37.8	48.6		ng/L		129	60 - 135
HFPO-DA (GenX)	40.0	39.5		ng/L		99	60 - 135
F-53B Major	37.4	43.2		ng/L		116	60 - 135
F-53B Minor	37.8	46.2		ng/L		122	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	90		25 - 150
13C5 PFPeA	95		25 - 150
13C2 PFHxA	97		25 - 150
13C4 PFHpA	94		25 - 150
13C4 PFOA	96		25 - 150
13C5 PFNA	90		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	95		25 - 150
13C2 PFDoA	95		25 - 150
13C2 PFTeDA	96		25 - 150
13C3 PFBS	99		25 - 150
18O2 PFHxS	95		25 - 150
13C4 PFOS	87		25 - 150
13C8 FOSA	94		10 - 150
d3-NMeFOSAA	87		25 - 150
d5-NEtFOSAA	87		25 - 150
d-N-MeFOSA-M	79		10 - 150
d-N-EtFOSA-M	80		10 - 150
d7-N-MeFOSE-M	88		10 - 150
d9-N-EtFOSE-M	90		10 - 150
M2-4:2 FTS	83		25 - 150
M2-6:2 FTS	77		25 - 150
M2-8:2 FTS	73		25 - 150
13C3 HFPO-DA	92		25 - 150
13C2 10:2 FTS	76		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628962/3-A
Matrix: Water
Analysis Batch: 630496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628962

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	46.7		ng/L		117	60 - 135	2	30	
Perfluoropentanoic acid (PFPeA)	40.0	42.3		ng/L		106	60 - 135	2	30	
Perfluorohexanoic acid (PFHxA)	40.0	41.5		ng/L		104	60 - 135	8	30	
Perfluoroheptanoic acid (PFHpA)	40.0	45.1		ng/L		113	60 - 135	3	30	
Perfluorooctanoic acid (PFOA)	40.0	43.3		ng/L		108	60 - 135	5	30	
Perfluorononanoic acid (PFNA)	40.0	46.7		ng/L		117	60 - 135	1	30	
Perfluorodecanoic acid (PFDA)	40.0	42.4		ng/L		106	60 - 135	1	30	
Perfluoroundecanoic acid (PFUnA)	40.0	43.0		ng/L		107	60 - 135	3	30	
Perfluorododecanoic acid (PFDoA)	40.0	42.7		ng/L		107	60 - 135	2	30	
Perfluorotridecanoic acid (PFTriA)	40.0	45.2		ng/L		113	60 - 135	2	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	41.2		ng/L		103	60 - 135	0	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	37.0		ng/L		104	60 - 135	1	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	41.0		ng/L		109	60 - 135	2	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.1		ng/L		99	60 - 135	9	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	47.1		ng/L		124	60 - 135	0	30	
Perfluorooctanesulfonic acid (PFOS)	37.2	41.6		ng/L		112	60 - 135	2	30	
Perfluorononanesulfonic acid (PFNS)	38.5	43.3		ng/L		113	60 - 135	0	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	42.1		ng/L		109	60 - 135	0	30	
Perfluorododecanesulfonic acid (PFDoS)	38.8	40.9		ng/L		105	60 - 135	3	30	
Perfluorooctanesulfonamide (FOSA)	40.0	39.6		ng/L		99	60 - 135	6	30	
NEtFOSA	40.0	45.6		ng/L		114	60 - 135	1	30	
NMeFOSA	40.0	42.0		ng/L		105	60 - 135	1	30	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	39.8		ng/L		99	60 - 135	5	30	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	45.3		ng/L		113	60 - 135	3	30	
NMeFOSE	40.0	45.5		ng/L		114	60 - 135	5	30	
NEtFOSE	40.0	40.8		ng/L		102	60 - 135	8	30	
4:2 FTS	37.5	38.2		ng/L		102	60 - 135	4	30	
6:2 FTS	38.1	38.4		ng/L		101	60 - 135	7	30	
8:2 FTS	38.4	40.2		ng/L		105	60 - 135	2	30	
DONA	37.8	50.4		ng/L		133	60 - 135	4	30	
HFPO-DA (GenX)	40.0	36.9		ng/L		92	60 - 135	7	30	
F-53B Major	37.4	44.6		ng/L		119	60 - 135	3	30	
F-53B Minor	37.8	45.8		ng/L		121	60 - 135	1	30	

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
¹³ C4 PFBA	94		25 - 150
¹³ C5 PFPeA	94		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628962/3-A
Matrix: Water
Analysis Batch: 630496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628962

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C2 PFHxA	101		25 - 150
13C4 PFHpA	99		25 - 150
13C4 PFOA	96		25 - 150
13C5 PFNA	90		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	97		25 - 150
13C2 PFDoA	98		25 - 150
13C2 PFTeDA	100		25 - 150
13C3 PFBS	99		25 - 150
18O2 PFHxS	102		25 - 150
13C4 PFOS	87		25 - 150
13C8 FOSA	101		10 - 150
d3-NMeFOSAA	94		25 - 150
d5-NEtFOSAA	90		25 - 150
d-N-MeFOSA-M	84		10 - 150
d-N-EtFOSA-M	84		10 - 150
d7-N-MeFOSE-M	94		10 - 150
d9-N-EtFOSE-M	96		10 - 150
M2-4:2 FTS	84		25 - 150
M2-6:2 FTS	80		25 - 150
M2-8:2 FTS	78		25 - 150
13C3 HFPO-DA	96		25 - 150
13C2 10:2 FTS	79		25 - 150

Lab Sample ID: MB 320-628963/1-A
Matrix: Water
Analysis Batch: 630502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628963

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/31/22 05:25	11/06/22 15:26	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-628963/1-A
Matrix: Water
Analysis Batch: 630502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/31/22 05:25	11/06/22 15:26	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/31/22 05:25	11/06/22 15:26	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/31/22 05:25	11/06/22 15:26	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/31/22 05:25	11/06/22 15:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/31/22 05:25	11/06/22 15:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/31/22 05:25	11/06/22 15:26	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/31/22 05:25	11/06/22 15:26	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/31/22 05:25	11/06/22 15:26	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/31/22 05:25	11/06/22 15:26	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/31/22 05:25	11/06/22 15:26	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/31/22 05:25	11/06/22 15:26	1
DONA	<0.40		2.0	0.40	ng/L		10/31/22 05:25	11/06/22 15:26	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/31/22 05:25	11/06/22 15:26	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/31/22 05:25	11/06/22 15:26	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/31/22 05:25	11/06/22 15:26	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C5 PFPeA	100		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C2 PFHxA	103		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C4 PFHpA	100		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C4 PFOA	99		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C5 PFNA	97		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C2 PFDA	100		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C2 PFUnA	102		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C2 PFDoA	103		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C2 PFTeDA	103		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C3 PFBS	109		25 - 150	10/31/22 05:25	11/06/22 15:26	1
18O2 PFHxS	102		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C4 PFOS	98		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C8 FOSA	99		10 - 150	10/31/22 05:25	11/06/22 15:26	1
d3-NMeFOSAA	91		25 - 150	10/31/22 05:25	11/06/22 15:26	1
d5-NEtFOSAA	93		25 - 150	10/31/22 05:25	11/06/22 15:26	1
d-N-MeFOSA-M	82		10 - 150	10/31/22 05:25	11/06/22 15:26	1
d-N-EtFOSA-M	83		10 - 150	10/31/22 05:25	11/06/22 15:26	1
d7-N-MeFOSE-M	92		10 - 150	10/31/22 05:25	11/06/22 15:26	1
d9-N-EtFOSE-M	96		10 - 150	10/31/22 05:25	11/06/22 15:26	1
M2-4:2 FTS	95		25 - 150	10/31/22 05:25	11/06/22 15:26	1
M2-6:2 FTS	85		25 - 150	10/31/22 05:25	11/06/22 15:26	1
M2-8:2 FTS	89		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C3 HFPO-DA	97		25 - 150	10/31/22 05:25	11/06/22 15:26	1
13C2 10:2 FTS	93		25 - 150	10/31/22 05:25	11/06/22 15:26	1

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628963/2-A
Matrix: Water
Analysis Batch: 630502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	47.0		ng/L		117	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	41.9		ng/L		105	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	43.6		ng/L		109	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	44.9		ng/L		112	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	45.1		ng/L		113	60 - 135
Perfluorononanoic acid (PFNA)	40.0	45.6		ng/L		114	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	39.8		ng/L		99	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	43.1		ng/L		108	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	42.8		ng/L		107	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	47.8		ng/L		120	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	41.5		ng/L		104	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	34.8		ng/L		98	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	38.6		ng/L		103	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	37.0		ng/L		102	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	42.1		ng/L		110	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	39.1		ng/L		105	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	39.5		ng/L		103	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	39.8		ng/L		103	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	39.5		ng/L		102	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	40.2		ng/L		100	60 - 135
NEtFOSA	40.0	45.2		ng/L		113	60 - 135
NMeFOSA	40.0	41.4		ng/L		104	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.9		ng/L		110	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.7		ng/L		107	60 - 135
NMeFOSE	40.0	46.5		ng/L		116	60 - 135
NEtFOSE	40.0	42.9		ng/L		107	60 - 135
4:2 FTS	37.5	38.5		ng/L		103	60 - 135
6:2 FTS	38.1	42.7		ng/L		112	60 - 135
8:2 FTS	38.4	41.2		ng/L		107	60 - 135
DONA	37.8	45.0		ng/L		119	60 - 135
HFPO-DA (GenX)	40.0	39.2		ng/L		98	60 - 135
F-53B Major	37.4	41.2		ng/L		110	60 - 135
F-53B Minor	37.8	43.5		ng/L		115	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
¹³ C4 PFBA	94		25 - 150
¹³ C5 PFPeA	99		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-628963/2-A
Matrix: Water
Analysis Batch: 630502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628963

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C2 PFHxA	99		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	93		25 - 150
13C5 PFNA	94		25 - 150
13C2 PFDA	102		25 - 150
13C2 PFUnA	104		25 - 150
13C2 PFDoA	97		25 - 150
13C2 PFTeDA	98		25 - 150
13C3 PFBS	101		25 - 150
18O2 PFHxS	99		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	95		10 - 150
d3-NMeFOSAA	85		25 - 150
d5-NEtFOSAA	90		25 - 150
d-N-MeFOSA-M	80		10 - 150
d-N-EtFOSA-M	81		10 - 150
d7-N-MeFOSE-M	91		10 - 150
d9-N-EtFOSE-M	94		10 - 150
M2-4:2 FTS	89		25 - 150
M2-6:2 FTS	80		25 - 150
M2-8:2 FTS	84		25 - 150
13C3 HFPO-DA	97		25 - 150
13C2 10:2 FTS	86		25 - 150

Lab Sample ID: LCSD 320-628963/3-A
Matrix: Water
Analysis Batch: 630502

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628963

<i>Analyte</i>	<i>Spike</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>RPD</i>	<i>RPD</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	<i>RPD</i>	<i>Limit</i>
Perfluorobutanoic acid (PFBA)	40.0	45.5		ng/L		114	60 - 135	3	30
Perfluoropentanoic acid (PFPeA)	40.0	41.9		ng/L		105	60 - 135	0	30
Perfluorohexanoic acid (PFHxA)	40.0	43.5		ng/L		109	60 - 135	0	30
Perfluoroheptanoic acid (PFHpA)	40.0	46.5		ng/L		116	60 - 135	3	30
Perfluorooctanoic acid (PFOA)	40.0	44.4		ng/L		111	60 - 135	2	30
Perfluorononanoic acid (PFNA)	40.0	44.5		ng/L		111	60 - 135	2	30
Perfluorodecanoic acid (PFDA)	40.0	42.8		ng/L		107	60 - 135	7	30
Perfluoroundecanoic acid (PFUnA)	40.0	45.1		ng/L		113	60 - 135	4	30
Perfluorododecanoic acid (PFDoA)	40.0	41.3		ng/L		103	60 - 135	4	30
Perfluorotridecanoic acid (PFTriA)	40.0	44.1		ng/L		110	60 - 135	8	30
Perfluorotetradecanoic acid (PFTeA)	40.0	41.1		ng/L		103	60 - 135	1	30
Perfluorobutanesulfonic acid (PFBS)	35.5	35.6		ng/L		100	60 - 135	2	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	39.9		ng/L		106	60 - 135	3	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.9		ng/L		101	60 - 135	0	30

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628963/3-A
Matrix: Water
Analysis Batch: 630502

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628963

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanesulfonic acid (PFHpS)	38.2	44.5		ng/L		117	60 - 135	6	30
Perfluorooctanesulfonic acid (PFOS)	37.2	41.3		ng/L		111	60 - 135	5	30
Perfluorononanesulfonic acid (PFNS)	38.5	42.8		ng/L		111	60 - 135	8	30
Perfluorodecanesulfonic acid (PFDS)	38.6	39.1		ng/L		101	60 - 135	2	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	41.6		ng/L		107	60 - 135	5	30
Perfluorooctanesulfonamide (FOSA)	40.0	40.5		ng/L		101	60 - 135	1	30
NEtFOSA	40.0	41.9		ng/L		105	60 - 135	8	30
NMeFOSA	40.0	42.3		ng/L		106	60 - 135	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.0		ng/L		105	60 - 135	4	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	43.1		ng/L		108	60 - 135	1	30
NMeFOSE	40.0	46.3		ng/L		116	60 - 135	1	30
NEtFOSE	40.0	43.0		ng/L		108	60 - 135	0	30
4:2 FTS	37.5	38.3		ng/L		102	60 - 135	0	30
6:2 FTS	38.1	41.4		ng/L		109	60 - 135	3	30
8:2 FTS	38.4	41.1		ng/L		107	60 - 135	0	30
DONA	37.8	46.3		ng/L		123	60 - 135	3	30
HFPO-DA (GenX)	40.0	38.4		ng/L		96	60 - 135	2	30
F-53B Major	37.4	43.2		ng/L		116	60 - 135	5	30
F-53B Minor	37.8	45.4		ng/L		120	60 - 135	4	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	95		25 - 150
13C5 PFPeA	95		25 - 150
13C2 PFHxA	100		25 - 150
13C4 PFHpA	99		25 - 150
13C4 PFOA	98		25 - 150
13C5 PFNA	98		25 - 150
13C2 PFDA	100		25 - 150
13C2 PFUnA	97		25 - 150
13C2 PFDoA	105		25 - 150
13C2 PFTeDA	98		25 - 150
13C3 PFBS	100		25 - 150
18O2 PFHxS	100		25 - 150
13C4 PFOS	91		25 - 150
13C8 FOSA	98		10 - 150
d3-NMeFOSAA	89		25 - 150
d5-NEtFOSAA	87		25 - 150
d-N-MeFOSA-M	84		10 - 150
d-N-EtFOSA-M	88		10 - 150
d7-N-MeFOSE-M	89		10 - 150
d9-N-EtFOSE-M	94		10 - 150
M2-4:2 FTS	95		25 - 150
M2-6:2 FTS	82		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-628963/3-A
Matrix: Water
Analysis Batch: 630502

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628963

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
M2-8:2 FTS	84		25 - 150
13C3 HFPO-DA	99		25 - 150
13C2 10:2 FTS	88		25 - 150

Lab Sample ID: MB 320-636130/1-A
Matrix: Water
Analysis Batch: 636491

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636130

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		11/30/22 08:21	12/01/22 17:29	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		11/30/22 08:21	12/01/22 17:29	1
NEtFOSA	<0.87		2.0	0.87	ng/L		11/30/22 08:21	12/01/22 17:29	1
NMeFOSA	<0.43		2.0	0.43	ng/L		11/30/22 08:21	12/01/22 17:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		11/30/22 08:21	12/01/22 17:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		11/30/22 08:21	12/01/22 17:29	1
NMeFOSE	<1.4		4.0	1.4	ng/L		11/30/22 08:21	12/01/22 17:29	1
NEtFOSE	<0.85		2.0	0.85	ng/L		11/30/22 08:21	12/01/22 17:29	1
4:2 FTS	<0.24		2.0	0.24	ng/L		11/30/22 08:21	12/01/22 17:29	1
6:2 FTS	<2.5		5.0	2.5	ng/L		11/30/22 08:21	12/01/22 17:29	1
8:2 FTS	<0.46		2.0	0.46	ng/L		11/30/22 08:21	12/01/22 17:29	1
DONA	<0.40		2.0	0.40	ng/L		11/30/22 08:21	12/01/22 17:29	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		11/30/22 08:21	12/01/22 17:29	1
F-53B Major	<0.24		2.0	0.24	ng/L		11/30/22 08:21	12/01/22 17:29	1
F-53B Minor	<0.32		2.0	0.32	ng/L		11/30/22 08:21	12/01/22 17:29	1

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	83		25 - 150	11/30/22 08:21	12/01/22 17:29	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-636130/1-A
Matrix: Water
Analysis Batch: 636491

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636130

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C5 PFPeA	89		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C2 PFHxA	91		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C4 PFHpA	95		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C4 PFOA	93		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C5 PFNA	96		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C2 PFDA	82		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C2 PFUnA	82		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C2 PFDoA	80		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C2 PFTeDA	75		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C3 PFBS	87		25 - 150	11/30/22 08:21	12/01/22 17:29	1
18O2 PFHxS	83		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C4 PFOS	88		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C8 FOSA	73		10 - 150	11/30/22 08:21	12/01/22 17:29	1
d3-NMeFOSAA	71		25 - 150	11/30/22 08:21	12/01/22 17:29	1
d5-NEtFOSAA	69		25 - 150	11/30/22 08:21	12/01/22 17:29	1
d-N-MeFOSA-M	56		10 - 150	11/30/22 08:21	12/01/22 17:29	1
d-N-EtFOSA-M	58		10 - 150	11/30/22 08:21	12/01/22 17:29	1
d7-N-MeFOSE-M	69		10 - 150	11/30/22 08:21	12/01/22 17:29	1
d9-N-EtFOSE-M	71		10 - 150	11/30/22 08:21	12/01/22 17:29	1
M2-4:2 FTS	107		25 - 150	11/30/22 08:21	12/01/22 17:29	1
M2-6:2 FTS	102		25 - 150	11/30/22 08:21	12/01/22 17:29	1
M2-8:2 FTS	88		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C3 HFPO-DA	104		25 - 150	11/30/22 08:21	12/01/22 17:29	1
13C2 10:2 FTS	96		25 - 150	11/30/22 08:21	12/01/22 17:29	1

Lab Sample ID: LCS 320-636130/2-A
Matrix: Water
Analysis Batch: 636491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	40.0	38.3		ng/L		96	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	37.8		ng/L		94	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	39.7		ng/L		99	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	39.8		ng/L		100	60 - 135
Perfluorononanoic acid (PFNA)	40.0	38.5		ng/L		96	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	38.2		ng/L		95	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	37.7		ng/L		94	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	39.7		ng/L		99	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	36.4		ng/L		91	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.8		ng/L		92	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	34.7		ng/L		98	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	37.6		ng/L		100	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	37.0		ng/L		101	60 - 135

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-636130/2-A
Matrix: Water
Analysis Batch: 636491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	38.2	36.0		ng/L		94	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	36.7		ng/L		99	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	31.2		ng/L		81	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	32.4		ng/L		84	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	31.5		ng/L		81	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	35.9		ng/L		90	60 - 135
NEtFOSA	40.0	42.1		ng/L		105	60 - 135
NMeFOSA	40.0	42.6		ng/L		107	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	36.1		ng/L		90	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.1		ng/L		95	60 - 135
NMeFOSE	40.0	40.0		ng/L		100	60 - 135
NEtFOSE	40.0	37.5		ng/L		94	60 - 135
4:2 FTS	37.5	31.6		ng/L		84	60 - 135
6:2 FTS	38.1	37.4		ng/L		98	60 - 135
8:2 FTS	38.4	36.0		ng/L		94	60 - 135
DONA	37.8	37.6		ng/L		100	60 - 135
HFPO-DA (GenX)	40.0	37.1		ng/L		93	60 - 135
F-53B Major	37.4	32.9		ng/L		88	60 - 135
F-53B Minor	37.8	34.6		ng/L		92	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	85		25 - 150
13C5 PFPeA	89		25 - 150
13C2 PFHxA	95		25 - 150
13C4 PFHpA	97		25 - 150
13C4 PFOA	95		25 - 150
13C5 PFNA	102		25 - 150
13C2 PFDA	84		25 - 150
13C2 PFUnA	88		25 - 150
13C2 PFDoA	85		25 - 150
13C2 PFTeDA	81		25 - 150
13C3 PFBS	85		25 - 150
18O2 PFHxS	83		25 - 150
13C4 PFOS	90		25 - 150
13C8 FOSA	72		10 - 150
d3-NMeFOSAA	67		25 - 150
d5-NEtFOSAA	74		25 - 150
d-N-MeFOSA-M	59		10 - 150
d-N-EtFOSA-M	58		10 - 150
d7-N-MeFOSE-M	73		10 - 150
d9-N-EtFOSE-M	76		10 - 150
M2-4:2 FTS	110		25 - 150
M2-6:2 FTS	103		25 - 150

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-636130/2-A
Matrix: Water
Analysis Batch: 636491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636130

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-8:2 FTS	87		25 - 150
13C3 HFPO-DA	102		25 - 150
13C2 10:2 FTS	96		25 - 150

Lab Sample ID: LCSD 320-636130/3-A
Matrix: Water
Analysis Batch: 636491

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 636130

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	37.8		ng/L		95	60 - 135	0	30	
Perfluoropentanoic acid (PFPeA)	40.0	36.1		ng/L		90	60 - 135	6	30	
Perfluorohexanoic acid (PFHxA)	40.0	36.6		ng/L		92	60 - 135	3	30	
Perfluoroheptanoic acid (PFHpA)	40.0	40.7		ng/L		102	60 - 135	2	30	
Perfluorooctanoic acid (PFOA)	40.0	38.4		ng/L		96	60 - 135	3	30	
Perfluorononanoic acid (PFNA)	40.0	37.8		ng/L		95	60 - 135	2	30	
Perfluorodecanoic acid (PFDA)	40.0	38.7		ng/L		97	60 - 135	1	30	
Perfluoroundecanoic acid (PFUnA)	40.0	37.5		ng/L		94	60 - 135	0	30	
Perfluorododecanoic acid (PFDoA)	40.0	40.3		ng/L		101	60 - 135	1	30	
Perfluorotridecanoic acid (PFTriA)	40.0	38.3		ng/L		96	60 - 135	5	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	37.8		ng/L		95	60 - 135	3	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	34.7		ng/L		98	60 - 135	0	30	
Perfluoropentanesulfonic acid (PFPeS)	37.6	38.3		ng/L		102	60 - 135	2	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	32.1		ng/L		88	60 - 135	14	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	36.2		ng/L		95	60 - 135	0	30	
Perfluorooctanesulfonic acid (PFOS)	37.2	36.6		ng/L		99	60 - 135	0	30	
Perfluorononanesulfonic acid (PFNS)	38.5	32.2		ng/L		84	60 - 135	3	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	32.5		ng/L		84	60 - 135	0	30	
Perfluorododecanesulfonic acid (PFDoS)	38.8	31.1		ng/L		80	60 - 135	1	30	
Perfluorooctanesulfonamide (FOSA)	40.0	36.0		ng/L		90	60 - 135	0	30	
NEtFOSA	40.0	42.5		ng/L		106	60 - 135	1	30	
NMeFOSA	40.0	39.8		ng/L		100	60 - 135	7	30	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	36.9		ng/L		92	60 - 135	2	30	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.7		ng/L		99	60 - 135	4	30	
NMeFOSE	40.0	39.9		ng/L		100	60 - 135	0	30	
NEtFOSE	40.0	37.3		ng/L		93	60 - 135	1	30	
4:2 FTS	37.5	33.3		ng/L		89	60 - 135	5	30	
6:2 FTS	38.1	35.0		ng/L		92	60 - 135	7	30	
8:2 FTS	38.4	34.6		ng/L		90	60 - 135	4	30	

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-636130/3-A
Matrix: Water
Analysis Batch: 636491

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 636130

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DONA	37.8	38.1		ng/L		101	60 - 135	1	30
HFPO-DA (GenX)	40.0	35.9		ng/L		90	60 - 135	3	30
F-53B Major	37.4	32.2		ng/L		86	60 - 135	2	30
F-53B Minor	37.8	33.6		ng/L		89	60 - 135	3	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	86		25 - 150
13C5 PFPeA	96		25 - 150
13C2 PFHxA	100		25 - 150
13C4 PFHpA	97		25 - 150
13C4 PFOA	99		25 - 150
13C5 PFNA	107		25 - 150
13C2 PFDA	85		25 - 150
13C2 PFUnA	90		25 - 150
13C2 PFDoA	90		25 - 150
13C2 PFTeDA	89		25 - 150
13C3 PFBS	88		25 - 150
18O2 PFHxS	94		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	76		10 - 150
d3-NMeFOSAA	74		25 - 150
d5-NEtFOSAA	80		25 - 150
d-N-MeFOSA-M	63		10 - 150
d-N-EtFOSA-M	63		10 - 150
d7-N-MeFOSE-M	74		10 - 150
d9-N-EtFOSE-M	77		10 - 150
M2-4:2 FTS	114		25 - 150
M2-6:2 FTS	112		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	100		25 - 150
13C2 10:2 FTS	102		25 - 150

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Lab Sample ID: 500-224562-6 MS
Matrix: Water
Analysis Batch: 631830

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 628958

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA) - DL	1200		37.0	1200	4	ng/L		-33	70 - 130
Isotope Dilution	MS %Recovery	MS Qualifier	MS Limits						
13C4 PFOA - DL	99		25 - 150						

QC Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL (Continued)

Lab Sample ID: 500-224562-6 MSD
Matrix: Water
Analysis Batch: 631830

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 628958

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Perfluorooctanoic acid (PFOA) - DL	1200		37.9	1190	4	ng/L		-50	70 - 130	1	30
		<i>MSD</i>	<i>MSD</i>								
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>								
13C4 PFOA - DL	92		25 - 150								

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-686689/1-A
Matrix: Water
Analysis Batch: 687308

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 686689

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	<25		100	25	ug/L		11/23/22 08:54	11/28/22 20:09	1
Antimony	<1.3		3.0	1.3	ug/L		11/23/22 08:54	11/28/22 20:09	1
Arsenic	<0.23		1.0	0.23	ug/L		11/23/22 08:54	11/28/22 20:09	1
Chromium	<1.1		5.0	1.1	ug/L		11/23/22 08:54	11/28/22 20:09	1
Lead	<0.19	^+	0.50	0.19	ug/L		11/23/22 08:54	11/28/22 20:09	1

Lab Sample ID: LCS 500-686689/2-A
Matrix: Water
Analysis Batch: 687308

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 686689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Aluminum	2000	1970		ug/L		99	80 - 120
Antimony	500	486		ug/L		97	80 - 120
Arsenic	100	87.7		ug/L		88	80 - 120
Chromium	200	196		ug/L		98	80 - 120
Lead	100	104	^+	ug/L		104	80 - 120

Lab Sample ID: 500-224562-6 MS
Matrix: Water
Analysis Batch: 687308

Client Sample ID: MW-19
Prep Type: Dissolved
Prep Batch: 686689

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
Chromium	130		200	325		ug/L		99	75 - 125

Lab Sample ID: 500-224562-6 MSD
Matrix: Water
Analysis Batch: 687308

Client Sample ID: MW-19
Prep Type: Dissolved
Prep Batch: 686689

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Chromium	130		200	330		ug/L		101	75 - 125	1	20

Lab Sample ID: 500-224562-6 DU
Matrix: Water
Analysis Batch: 687308

Client Sample ID: MW-19
Prep Type: Dissolved
Prep Batch: 686689

Analyte	Sample	Sample	DU Result	DU	Unit	D	RPD	RPD
	Result	Qualifier		Qualifier				Limit
Aluminum	46	J	46.9	J	ug/L		2	20

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QC Sample Results

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-224562-6 DU

Matrix: Water

Analysis Batch: 687308

Client Sample ID: MW-19

Prep Type: Dissolved

Prep Batch: 686689

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<1.3		<1.3		ug/L		NC	20
Arsenic	1.9		1.95		ug/L		4	20
Chromium	130		127		ug/L		0.7	20
Lead	<0.19	^+	<0.19	^+	ug/L		NC	20

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: AECOM MW-18

Lab Sample ID: 500-224562-1

Date Collected: 10/24/22 14:15

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 06:51
Total/NA	Prep	3535	DL		628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)	DL	5	631830	RS1	EET SAC	11/10/22 01:48

Client Sample ID: AECOM MW-19

Lab Sample ID: 500-224562-2

Date Collected: 10/24/22 15:15

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 17:23
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 07:01
Total/NA	Prep	3535	DL		628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)	DL	20	632222	K1S	EET SAC	11/11/22 09:43

Client Sample ID: MW-17

Lab Sample ID: 500-224562-3

Date Collected: 10/24/22 16:10

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 17:49
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 07:11
Total/NA	Prep	3535	DL		628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)	DL	20	632222	K1S	EET SAC	11/11/22 09:53

Client Sample ID: FB-01

Lab Sample ID: 500-224562-4

Date Collected: 10/24/22 16:45

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 07:21

Client Sample ID: EB-01

Lab Sample ID: 500-224562-5

Date Collected: 10/24/22 16:50

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 18:16
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 07:31

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-19
Date Collected: 10/25/22 08:10
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 18:42
Total/NA	Prep	3510C			682605	TS	EET CHI	11/02/22 09:25
Total/NA	Analysis	8082A		1	683153	NB	EET CHI	11/04/22 12:36
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 07:41
Total/NA	Prep	3535	DL		628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)	DL	5	631830	RS1	EET SAC	11/10/22 01:58
Dissolved	Prep	3005A			686689	BDE	EET CHI	11/23/22 08:54 - 11/23/22 09:24 ¹
Dissolved	Analysis	6020A		1	687308	FXG	EET CHI	11/28/22 20:16

Client Sample ID: MW-19 DUP
Date Collected: 10/25/22 08:10
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 19:09
Total/NA	Prep	3510C			682605	TS	EET CHI	11/02/22 09:25
Total/NA	Analysis	8082A		1	683153	NB	EET CHI	11/04/22 13:24
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 08:42
Total/NA	Prep	3535	DL		628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)	DL	5	631830	RS1	EET SAC	11/10/22 02:28
Dissolved	Prep	3005A			686689	BDE	EET CHI	11/23/22 08:54 - 11/23/22 09:24 ¹
Dissolved	Analysis	6020A		1	687308	FXG	EET CHI	11/28/22 20:34

Client Sample ID: MW-37
Date Collected: 10/25/22 09:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 19:35
Total/NA	Prep	3510C			682605	TS	EET CHI	11/02/22 09:25
Total/NA	Analysis	8082A		5	683527	NB	EET CHI	11/07/22 13:30
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 08:52
Total/NA	Prep	3535	DL		628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)	DL	20	632964	S1M	EET SAC	11/15/22 15:37

Client Sample ID: MW-233
Date Collected: 10/25/22 11:15
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			682605	TS	EET CHI	11/02/22 09:25
Total/NA	Analysis	8082A		1	683153	NB	EET CHI	11/04/22 13:57

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-233

Lab Sample ID: 500-224562-9

Date Collected: 10/25/22 11:15

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 09:02

Client Sample ID: MW-67

Lab Sample ID: 500-224562-10

Date Collected: 10/25/22 12:35

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			682605	TS	EET CHI	11/02/22 09:25
Total/NA	Analysis	8082A		1	683153	NB	EET CHI	11/04/22 14:13
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 09:12

Client Sample ID: PZ-206

Lab Sample ID: 500-224562-11

Date Collected: 10/25/22 13:35

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 09:22

Client Sample ID: MW-60

Lab Sample ID: 500-224562-12

Date Collected: 10/25/22 15:50

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			682605	TS	EET CHI	11/02/22 09:25
Total/NA	Analysis	8082A		1	683153	NB	EET CHI	11/04/22 14:29
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		1	630489	RS1	EET SAC	11/06/22 09:32
Dissolved	Prep	3005A			686689	BDE	EET CHI	11/23/22 08:54 - 11/23/22 09:24 ¹
Dissolved	Analysis	6020A		1	687308	FXG	EET CHI	11/28/22 20:37

Client Sample ID: MW-6

Lab Sample ID: 500-224562-13

Date Collected: 10/25/22 14:40

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			682605	TS	EET CHI	11/02/22 09:25
Total/NA	Analysis	8082A		1	683153	NB	EET CHI	11/04/22 14:45
Total/NA	Prep	3535			628958	EFG	EET SAC	10/31/22 04:40
Total/NA	Analysis	537 (modified)		5	631830	RS1	EET SAC	11/10/22 03:29
Dissolved	Prep	3005A			686689	BDE	EET CHI	11/23/22 08:54 - 11/23/22 09:24 ¹
Dissolved	Analysis	6020A		1	687308	FXG	EET CHI	11/28/22 20:41

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-03
Date Collected: 10/25/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 20:02
Total/NA	Prep	3510C			682605	TS	EET CHI	11/02/22 09:25
Total/NA	Analysis	8082A		1	683153	NB	EET CHI	11/04/22 15:01
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 11:13
Dissolved	Prep	3005A			686689	BDE	EET CHI	11/23/22 08:54 - 11/23/22 09:24 ¹
Dissolved	Analysis	6020A		1	687308	FXG	EET CHI	11/28/22 20:51

Client Sample ID: FB-03
Date Collected: 10/25/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 11:23

Client Sample ID: PZ-200
Date Collected: 10/26/22 07:40
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 11:34

Client Sample ID: MW-200
Date Collected: 10/26/22 08:20
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 11:44

Client Sample ID: MW-5
Date Collected: 10/26/22 08:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683417	W1T	EET CHI	11/07/22 18:00
Total/NA	Analysis	8260B	DL	5	683234	JDD	EET CHI	11/04/22 20:29
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 11:54
Total/NA	Prep	3535	DL		628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)	DL	5	631830	RS1	EET SAC	11/10/22 03:49

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-220
Date Collected: 10/26/22 09:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 12:04

Client Sample ID: MW-16
Date Collected: 10/26/22 10:30
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 21:22
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 12:14

Client Sample ID: MW-15
Date Collected: 10/26/22 11:10
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	683234	JDD	EET CHI	11/04/22 21:48
Total/NA	Analysis	8260B	DL	50	683234	JDD	EET CHI	11/04/22 22:15
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 12:54
Total/NA	Prep	3535	DL		628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)	DL	5	631830	RS1	EET SAC	11/10/22 03:59

Client Sample ID: MW-3
Date Collected: 10/26/22 11:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 22:41
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 13:04
Total/NA	Prep	3535	DL		628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)	DL	20	632964	S1M	EET SAC	11/15/22 15:58

Client Sample ID: MW-8
Date Collected: 10/26/22 12:40
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 23:08
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 13:15
Total/NA	Prep	3535	DL		628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)	DL	5	631830	RS1	EET SAC	11/10/22 04:09

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-7

Lab Sample ID: 500-224562-24

Date Collected: 10/26/22 13:30

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 13:25
Total/NA	Prep	3535	DL		628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)	DL	10	631830	RS1	EET SAC	11/10/22 04:29

Client Sample ID: PZ-214

Lab Sample ID: 500-224562-25

Date Collected: 10/26/22 14:30

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 13:35

Client Sample ID: MW-31

Lab Sample ID: 500-224562-26

Date Collected: 10/26/22 15:35

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/04/22 23:34
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		5	631830	RS1	EET SAC	11/10/22 04:40
Total/NA	Prep	3535	DL		628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)	DL	10	632222	K1S	EET SAC	11/11/22 09:33

Client Sample ID: MW-209

Lab Sample ID: 500-224562-27

Date Collected: 10/26/22 16:30

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/05/22 00:01
Total/NA	Prep	3535			628962	EJR	EET SAC	10/31/22 05:09
Total/NA	Analysis	537 (modified)		1	630496	RS1	EET SAC	11/06/22 13:55

Client Sample ID: MW-209 DUP

Lab Sample ID: 500-224562-28

Date Collected: 10/26/22 16:30

Matrix: Water

Date Received: 10/28/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/05/22 00:28
Total/NA	Prep	3535			628963	EJR	EET SAC	10/31/22 05:25
Total/NA	Analysis	537 (modified)		1	630502	RS1	EET SAC	11/06/22 15:56

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: EB-08
Date Collected: 10/26/22 16:50
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/05/22 00:54
Total/NA	Prep	3535			628963	EJR	EET SAC	10/31/22 05:25
Total/NA	Analysis	537 (modified)		1	630502	RS1	EET SAC	11/06/22 16:06

Client Sample ID: FB-08
Date Collected: 10/26/22 16:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628963	EJR	EET SAC	10/31/22 05:25
Total/NA	Analysis	537 (modified)		1	630502	RS1	EET SAC	11/06/22 16:16

Client Sample ID: MW-221
Date Collected: 10/27/22 08:15
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628963	EJR	EET SAC	10/31/22 05:25
Total/NA	Analysis	537 (modified)		1	630502	RS1	EET SAC	11/06/22 16:26

Client Sample ID: MW-12
Date Collected: 10/27/22 09:15
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			636130	VP	EET SAC	11/30/22 08:21
Total/NA	Analysis	537 (modified)		1	636491	AEC	EET SAC	12/01/22 17:59
Dissolved	Prep	3005A			686689	BDE	EET CHI	11/23/22 08:54 - 11/23/22 09:24 ¹
Dissolved	Analysis	6020A		10	687308	FXG	EET CHI	11/28/22 20:54

Client Sample ID: MW-12 DUP
Date Collected: 10/27/22 09:15
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			636130	VP	EET SAC	11/30/22 08:21
Total/NA	Analysis	537 (modified)		1	637154	RS1	EET SAC	12/03/22 13:17
Dissolved	Prep	3005A			686689	BDE	EET CHI	11/23/22 08:54 - 11/23/22 09:24 ¹
Dissolved	Analysis	6020A		10	687308	FXG	EET CHI	11/28/22 20:58

Client Sample ID: MW-9
Date Collected: 10/27/22 10:20
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/05/22 01:21

Eurofins Chicago

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Client Sample ID: MW-9
Date Collected: 10/27/22 10:20
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628963	EJR	EET SAC	10/31/22 05:25
Total/NA	Analysis	537 (modified)		10	631597	K1S	EET SAC	11/08/22 22:40

Client Sample ID: EB-09
Date Collected: 10/27/22 10:45
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683234	JDD	EET CHI	11/05/22 01:47
Total/NA	Prep	3535			628963	EJR	EET SAC	10/31/22 05:25
Total/NA	Analysis	537 (modified)		1	630502	RS1	EET SAC	11/06/22 17:37
Dissolved	Prep	3005A			686689	BDE	EET CHI	11/23/22 08:54 - 11/23/22 09:24 ¹
Dissolved	Analysis	6020A		1	687308	FXG	EET CHI	11/28/22 21:01

Client Sample ID: FB-09
Date Collected: 10/27/22 10:55
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			628963	EJR	EET SAC	10/31/22 05:25
Total/NA	Analysis	537 (modified)		1	630502	RS1	EET SAC	11/06/22 17:47

Client Sample ID: TRIP BLANK 2
Date Collected: 10/27/22 00:00
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683229	JDD	EET CHI	11/04/22 22:55

Client Sample ID: TRIP BLANK 3
Date Collected: 10/27/22 00:00
Date Received: 10/28/22 10:10

Lab Sample ID: 500-224562-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	683229	JDD	EET CHI	11/04/22 23:18

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
 EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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Eurofins TestAmerica, Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins Test America

Client Information		Sampler: D. GRASFORD		Lab PM: Fredrick Sandie		Carrier Tracking No(s)		COC No: 500-87887-39456 1		
Client Contact: Paul Lindquist		Phone		E-Mail: sandra.fredrick@eurofinset.com		State of Origin: WI		Page 1 of 4		
Company: Ramboll US Corporation		PWSID		Analysis Requested		Job #: 500-224562		Preservation Codes		
Address: 234 W Florida Street City: Milwaukee State Zip: WI 53204 Phone: 262-901-3510(Tel) Email: plindquist@ramboll.com		Due Date Requested		TAT Requested (days): STD		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)		
Project Name: Former Mirro Plant No 9 1690019647		Project #: 50018382		PO #: 1690019647		WO #		Other:		
Site		SSOW#		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers		
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		
								VOCs 8260B PFAS Extended List (36 Analytes) PFC_IDA_WI 6020A (Metals) FILTERED PCBs 8082A		
								Preservation Code: <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> N		
1 2 3 4 5 6 7 8 9 10 11		AECOM MW-18		10-24-22 1415		G		Water		
		AECOM MW-19		1515				Water		
		MW-17		1610				Water		
		FB-01		1645				Water		
		EB-01		1650				Water		
		MW-19		10-25-22 810				Water		
		MW-19 DUP		810				Water		
		MW-37		930				Water		
		MW-233		1115				Water		
		MW-67		1235				Water		
		PZ-206		1335				Water		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements					
Empty Kit Relinquished by		Date		Time		Method of Shipment				
Relinquished by: <i>[Signature]</i>		Date/Time: 10-27-22 1510		Company: RAMBOLL		Received by: <i>[Signature]</i>		Date/Time: 10-27-22 1510		Company: Eurofins
Relinquished by: <i>[Signature]</i>		Date/Time: 10-27-22 1700		Company: Eurofins		Received by: <i>[Signature]</i>		Date/Time: 10/28/22 1010		Company: BETA
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 4.6 → 4.8, 2.5 → 2.7						

Eurofins TestAmerica, Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



Client Information		Samples: D. GLASFORD		Lab PM: Fredrick Sandie		Carrier Tracking No(s)		COC No: 500-87887-39456 1					
Client Contact: Paul Lindquist		Phone		E-Mail: sandra.fredrick@eurofinset.com		State of Origin: WI		Page 3 of 4					
Company: Ramboll US Corporation		PWSID		Analysis Requested						Job # 500-224562			
Address: 234 W Florida Street		Due Date Requested		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> PFAS Extended List (36 Analytes) PFC_IDA_WI <input type="checkbox"/> VOCs 8260B <input type="checkbox"/> AI <input type="checkbox"/> Sb <input type="checkbox"/> As <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> 6020A (Metals) FILTERED PCBs 8082A <input type="checkbox"/>						Preservation Codes			
City: Milwaukee		TAT Requested (days): STD								A HCL M Hexane			
State Zip: WI 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								B NaOH N None			
Phone: 262-901-3510(Tel)		PO #: 1690019647								C Zn Acetate O AsNaO2			
Email: plindquist@ramboll.com		WO #								D Nitric Acid P Na2O4S			
Project Name: Former Mirro Plant No 9 1690019647		Project #: 50018382		E NaHSO4 Q Na2SO3									
Site		SSOW#		F MeOH R Na2S2O3									
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Total Number of containers		Special Instructions/Note	
23 MW-8		10-26-22		1240		G		Water					
24 MW-7		↓		1330		↓		Water					
25 PZ-214		↓		1430		↓		Water					
26 MW-31		↓		1535		↓		Water					
27 MW 209		↓		1630		↓		Water					
28 MW-209 DUP		↓		1630		↓		Water					
29 EB-08		↓		1650		↓		Water					
30 FB-08		↓		1655		↓		Water					
31 MW-221		10-27-22		815		G		Water					
32 MW-12		↓		915		↓		Water				SCREEN	
33 MW-12 DUP		↓		915		↓		Water				SCREEN	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements							
Empty Kit Relinquished by		Date		Time		Method of Shipment							
Relinquished by: <i>[Signature]</i>		Date/Time: 10-27-22 1510		Company: RAMBOLL		Received by: <i>[Signature]</i>		Date/Time: 10-27-22 1510		Company: Eurofins			
Relinquished by: <i>[Signature]</i>		Date/Time: 10-27-22 1700		Company: Eurofins		Received by: <i>[Signature]</i>		Date/Time: 10/28/22 1010		Company: EPA			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks									

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Chain of Custody Record

Client Information		Sampler: D. GLASFORD		Lab PM: Fredrick Sandie		Carrier Tracking No(s)		COC No: 500-87887-39456 1																																							
Client Contact: Paul Lindquist		Phone		E-Mail: sandra.fredrick@eurofinset.com		State of Origin: WI		Page: 4 of 4																																							
Company: Ramboll US Corporation		PWSID		Analysis Requested						Job #: 500-224562																																					
Address: 234 W Florida Street		Due Date Requested		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">PFAS Extended List (36 Analytes)</td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">PFC_IDA_WI</td> <td colspan="6" style="text-align: center;">6020A (Metals)</td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of Containers</td> <td colspan="2" rowspan="5"> Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other: </td> </tr> <tr> <td colspan="6"></td> </tr> <tr> <td colspan="6"></td> </tr> <tr> <td colspan="6"></td> </tr> <tr> <td colspan="6"></td> </tr> </table>						Field Filtered Sample (Yes or No)	PFAS Extended List (36 Analytes)	PFC_IDA_WI	6020A (Metals)						Total Number of Containers	Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:																										Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:	
Field Filtered Sample (Yes or No)	PFAS Extended List (36 Analytes)	PFC_IDA_WI	6020A (Metals)										Total Number of Containers	Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:																																	
City: Milwaukee		TAT Requested (days): STD																																													
State/Zip: WI 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																																													
Phone: 262-901-3510(Tel)		PO #: 1690019647																																													
Email: plindquist@ramboll.com		WO #																																													
Project Name: Former Mirro Plant No 9 1690019647		Project #: 50018382																																													
Site		SSOW#																																													
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		Special Instructions/Note																																			
34	MW-9		10-27-22	1020	G	Water				X	X		SCREEN																																		
35	EB-09		↓	1045	↓	Water				X	X	X	X																																		
36	FB-09		↓	1055	↓	Water				X																																					
37	TRIP BLANK 2		↓	—	↓	Water				X																																					
38	TRIP BLANK 3					Water				X																																					
	TRIP BLANK 4					Water				X																																					
	TRIP BLANK 5					Water				X																																					
	TRIP BLANK 6					Water				X																																					
	TRIP BLANK 7					Water				X																																					
	Water					Water				X																																					
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																									
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements																																									
Empty Kit Relinquished by		Date		Time		Method of Shipment:																																									
Relinquished by: <i>[Signature]</i>		Date/Time: 10/27/22 1510		Company: Ramboll		Received by: <i>[Signature]</i>		Date/Time: 10/27/22 1510		Company: Eurofins																																					
Relinquished by: <i>[Signature]</i>		Date/Time: 10/27/22 1700		Company: Eurofins		Received by: <i>[Signature]</i>		Date/Time: 10/28/22 1010		Company: Eurofins																																					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																																					
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks																																											

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 52.60 LB
CAD: 0269688/CAFE3616

BILL RECIPIENT

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.



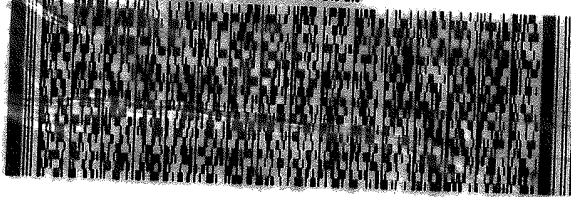
500 224562 Waybl

UNIVERSITY PARK IL 60484

(262) 202-5955
REF: INU: PO:

REF:

DEPT:



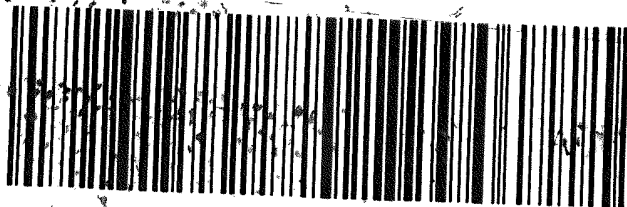
J222022032801UV

1 of 7
TRK# 6058 8696 6405
0201
MASTER

FRI - 28 OCT 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 51.20 LB
CAD: 0269688/CAFE3616

BILL RECIPIENT

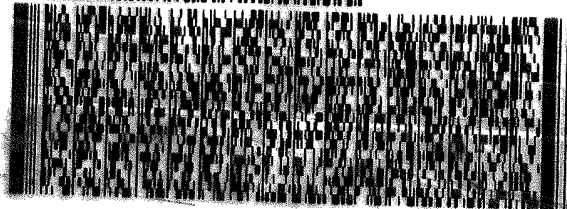
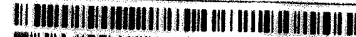
TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

UNIVERSITY PARK IL 60484

(262) 202-5955
REF: INU: PO:

REF:

DEPT:



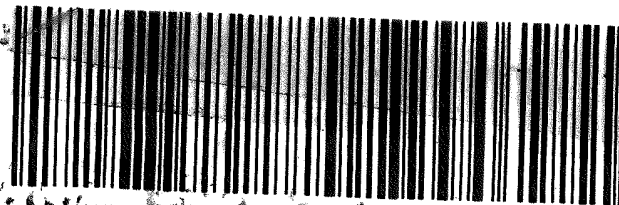
J222022032801UV

3 of 7
MPS# 6058 8696 6427
0263
Mstr# 6058 8696 6405

FRI - 28 OCT 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



Chain of Custody Record

Client Information Client Contact: Paul Lindquist Company: Ramboll US Corporation Address: 234 W Florida Street City: Milwaukee State, Zip: WI, 53204 Phone: 262-901-3510(Tel) Email: plindquist@ramboll.com Project Name: Former Mirro Plant No. 9 - 1690019647 Site:		Lab PM: Fredrick, Sandie E-Mail: sandra.fredrick@eurofinset.com Carrier Tracking No(s): State of Origin: WI Page 1 of 4 Job #	
Due Date Requested: TAT Requested (days): 5 DP Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 1690019647 WO #:		Analysis Requested PFAS Extended List (36 Analytes) - PFC_IDA_WI VOCs - 8260B 6020A (Metals) PCBS - 8082A Total Number of Containers:	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Special Instructions/Note: ADDITIONAL Vol for ms/eng	
Sample Identification AECOM MW-18 AECOM MW-19 MW-17 QFB-01 EB-01 MW-19 MW-19 DUP MW-37 MW-233 MW-67 PZ-206		Matrix (W=Water, S=Soil, O=Organic, G=Grab) Water Water Water Water Water Water Water Water Water Water	
Sample Date 10-24-22 10-25-22 10-25-22		Sample Time 1415 1515 1610 1645 1650 810 810 930 1115 1235 1335	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>[Signature]</i> Date/Time: 10-27-22 1510 Company: Ramboll		Received by: <i>[Signature]</i> Date/Time: 10-27-22 1510 Company: Eurofins	
Relinquished by: <i>[Signature]</i> Date/Time: 10-27-22 1700 Company: Eurofins		Received by: <i>[Signature]</i> Date/Time: 10/25/22 955 Company: Eurofins	
Relinquished by:		Received by:	
Custody Seal No.: 2051730 / 2051768 / 2051769 / 2051773 Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 33.6, 1.4	



Chain of Custody Record

Client Information Client Contact: Paul Lindquist Company: Ramboll US Corporation Address: 234 W Florida Street City: Milwaukee State, Zip: WI, 53204 Phone: 262-901-3510(Tel) Email: plindquist@ramboll.com Project Name: Former Mirro Plant No 9 - 1690019647 Site:		Lab PMI: Fredrick, Sandie E-Mail: sandra.fredrick@eurofinset.com Carrier Tracking No(s): State of Origin: WI Page 2 of 4 Job #: 4									
Due Date Requested: TAT Requested (days): 5TD Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 1690019647 WO #: Project #: 50018382 SSOW#:		Analysis Requested PFAS Extended List (36 Analytes) - PFC_IDA_WI VOCs - 82608 6020A (Metals) PCBs - 8082A Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amidlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexene N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)									
Special Instructions/Note: Special Instructions/OC Requirements: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Sample Identification											
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=on-site, B=lab, A=air)	PFAS	VOCs	6020A	PCBs	Special Instructions/Note		
MW-60	10-25-22	1550	G	Water	X	X		X			
MW-66		1440		Water	X	X		X			
EB-03		11050		Water	X	X		X			
FB-03		11055		Water	X	X		X			
PZ-200	10-26-22	740		Water	X	X		X			
MW-700		820		Water	X	X		X			
MW-5		845		Water	X	X		X			
MW-220		930		Water	X	X		X			
MW-16		1030		Water	X	X		X			
MW-15		1110		Water	X	X		X			
MW-3		1155		Water	X	X		X			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:				Method of Shipment:							
Relinquished by: <i>Don Gald</i>		Date/Time: 10-27-22 1510		Company: Ramboll		Received by: <i>[Signature]</i>		Date/Time: 10-27-22 1510		Company: Eurofins	
Relinquished by: <i>[Signature]</i>		Date/Time: 10-27-22 1700		Company: Eurofins		Received by: <i>[Signature]</i>		Date/Time: 10-26-22 835		Company: Eurofins	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		2551720/205768/2051269/2051773		Cooler Temperature(s) °C and Other Remarks:		3/510-222		33/119.66	



Chain of Custody Record

Client Information		Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456.1
Client Contact: Paul Lindquist		E-Mail: sandra.fredrick@eurofinset.com	State of Origin: WI	Page 3 of 4
Company: Ramboll US Corporation		PWSID:	Job #:	
Address: 234 W Florida Street		Due Date Requested:		
City: Milwaukee		TAT Requested (days): 5		
State, Zip: WI, 53204		Compliance Project: Δ Yes Δ No		
Phone: 262-901-3510(Tel)		PO #: 1690019647		
Email: plindquist@ramboll.com		WO #: 50018382		
Project Name: Former Mirro Plant No 9 - 1690019647		SSOW#:		
Site:		Site:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=sludge, A=air)	Analysis Requested	Special Instructions/Note:
MW-8	10-26-22	1240	G	Water	PCBs - 8082A	
MW-7		1330		Water	PCBs - 8082A	
PZ-214		1430		Water	PCBs - 8082A	
MW-31		1535		Water	PCBs - 8082A	
MW-209		1630		Water	PCBs - 8082A	
MW-209 DUP		1630		Water	PCBs - 8082A	
FB-08		1650		Water	PCBs - 8082A	
FB-08		1655		Water	PCBs - 8082A	
MW-221	10-27-22	815	G	Water	PCBs - 8082A	
MW-12		915		Water	PCBs - 8082A	
MW-12 DUP		915		Water	PCBs - 8082A	

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)	
Empty Kit Relinquished by:	
Relinquished by: <i>Don Lafel</i>	Date: 10-27-22 1510
Relinquished by: <i>John</i>	Date: 10-27-22 1700
Relinquished by:	Date:

Relinquished by: <i>John</i>	Date: 10-27-22 1510	Company: Eurofins
Relinquished by: <i>John</i>	Date: 10-27-22 1735	Company: Eurofins
Relinquished by:	Date:	Company:

Custody Seals Intact:	Custody Seal No.: 2051320/2051768/2051369/2051373
Cooler Temperature(s) °C and Other Remarks:	33, 19.6



Chain of Custody Record



Client Information Client Contact: Paul Lindquist Company: Ramboll US Corporation Address: 234 W Florida Street City: Milwaukee State, Zip: WI, 53204 Phone: 262-901-3510(Tel) Email: plindquist@ramboll.com Project Name: Former Mirro Plant No 9 - 1690019647 Site:		Lab PM: Fredrick, Sandie E-Mail: sandra.fredrick@eurofinsset.com Camer Tracking No(s): State of Origin: WI COC No: 500-87887-39456.1 Page: Page H of 4 Job #:	
Due Date Requested: TAT Requested (days): STD Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: 1690019647 WO #: 50018382 Project #: 50018382 SSOW#:		Analysis Requested PFAS, Extended List (36 Analytes) - PFC_IDA_WI VOCs - 8260B 6020A (Metals) PCBs - 8082A Real Number of Analytes:	
Sample Identification MW-9 EB-09 FB-09 TRIP BLANK 2 TRIP BLANK 3 TRIP BLANK 4 TRIP BLANK 5 TRIP BLANK 6 TRIP BLANK 7		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Date 10-27-22 Sample Time 1045 1055 - - - -		Sample Type (C=Comp, G=grab) G - - - - - -	
Matrix (W=water, S=solid, O=soil, G=grab, RT=Rub, AA=As) Water Water Water Water Water Water Water Water Water		Special Instructions/Note: SCREEN	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Received: [Signature] Received: [Signature] Received by: [Signature]	
Date: 10-27-22 1510 Date/Time: 10-27-22 1700 Date/Time: 10-27-22 1510		Date/Time: 10-27-22 1510 Date/Time: 10-28-22 935 Date/Time: 10-28-22 935	
Company: Ramboll Company: Eurofins Company: Eurofins		Company: Eurofins Company: Eurofins Company: Eurofins	
Custody Seal No.: 2551730 / 2051768 / 251769 / 251733 Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Temperature(s) °C and Other Remarks: 33, 1.6, 1.5 2010.9 cm	



Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-224562-1

Login Number: 224562

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8.2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-224562-1

Login Number: 224562

List Number: 2

Creator: Oropeza, Salvador

List Source: Eurofins Sacramento

List Creation: 10/29/22 03:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2051773/2051770/2051769/2051768
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3C, 1.6C, 1.9C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Place Field Sheet Label Here

Tracking #: _____

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: 609 Corr. Factor: (+/-) _____ °C

Ice _____ Wet _____ Gel _____ Other _____

Cooler Custody Seal: 2050770

Cooler ID: 2 of 5

Temp Observed: 1.6 °C Corrected: 1.6 °C
From: Temp Blank Sample

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: JF Date: 10/28/22

Unpacking/Labeling The Samples	Yes	No	NA
COC is complete w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples require splitting/compositing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: SD Date: 10/29/22

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: SD Date: 10/29/22

W3 13D



Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-224562-1	AECOM MW-18	26	50	74	91		101	108	108
500-224562-1 - DL	AECOM MW-18					95			
500-224562-2	AECOM MW-19		45	72	90		110	126	129
500-224562-2 - DL	AECOM MW-19	67				90			
500-224562-3	MW-17	54	72	90	102		103	109	109
500-224562-3 - DL	MW-17					86			
500-224562-4	FB-01	95	98	103	105	98	98	105	100
500-224562-5	EB-01	102	99	104	100	100	92	101	101
500-224562-6	MW-19	50	68	88	97		101	115	103
500-224562-6 - DL	MW-19					92			
500-224562-6 MS	MW-19	48	67	88	96		103	111	109
500-224562-6 MS - DL	MW-19					99			
500-224562-6 MSD	MW-19	46	65	86	93		97	107	106
500-224562-6 MSD - DL	MW-19					92			
500-224562-7	MW-19 DUP	46	69	95	95		104	108	103
500-224562-7 - DL	MW-19 DUP					94			
500-224562-8	MW-37	34	59	83	99		103	116	118
500-224562-8 - DL	MW-37					88			
500-224562-9	MW-233	73	88	108	104	100	95	101	97
500-224562-10	MW-67	53	69	89	100	97	97	103	108
500-224562-11	PZ-206	74	90	97	98	95	93	93	88
500-224562-12	MW-60	67	89	98	99	101	95	97	92
500-224562-13	MW-6	30	47	71	89	93	104	119	121
500-224562-14	EB-03	93	94	96	95	98	90	97	101
500-224562-15	FB-03	89	93	95	95	95	92	95	92
500-224562-16	PZ-200	63	76	94	107	94	88	95	91
500-224562-17	MW-200	77	87	93	90	91	88	91	86
500-224562-18	MW-5	68	80	95	106		101	110	115
500-224562-18 - DL	MW-5					98			
500-224562-19	MW-220	46	60	79	89	93	92	100	97
500-224562-20	MW-16	66	81	90	90	94	89	91	89
500-224562-21	MW-15	36	60	81	94		105	116	118
500-224562-21 - DL	MW-15					96			
500-224562-22	MW-3	30	54	78	92		99	108	106
500-224562-22 - DL	MW-3					82			
500-224562-23	MW-8		33	64	85		107	129	141
500-224562-23 - DL	MW-8	36				96			
500-224562-24	MW-7	36	60	71	90	90	109	123	130
500-224562-24 - DL	MW-7					95			
500-224562-25	PZ-214	53	72	89	95	94	94	98	99
500-224562-26	MW-31	35	54	82	91	84	95	102	110
500-224562-26 - DL	MW-31					91			
500-224562-27	MW-209	58	74	86	96	90	89	97	92
500-224562-28	MW-209 DUP	68	82	89	96	91	92	100	99
500-224562-29	EB-08	92	95	94	98	94	97	99	97
500-224562-30	FB-08	96	98	101	102	97	95	102	107
500-224562-31	MW-221	53	69	81	90	94	94	99	99
500-224562-32	MW-12	27	51	73	86	91	118	113	133
500-224562-33	MW-12 DUP	27	55	74	82	91	116	100	126

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Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-224562-34	MW-9	24 *5-	58	75	89	96	110	119	124
500-224562-35	EB-09	98	92	99	95	97	95	103	106
500-224562-36	FB-09	101	97	104	101	102	99	104	104
LCS 320-628958/2-A	Lab Control Sample	96	95	104	96	97	93	96	95
LCS 320-628962/2-A	Lab Control Sample	90	95	97	94	96	90	93	95
LCS 320-628963/2-A	Lab Control Sample	94	99	99	101	93	94	102	104
LCS 320-636130/2-A	Lab Control Sample	85	89	95	97	95	102	84	88
LCSD 320-628962/3-A	Lab Control Sample Dup	94	94	101	99	96	90	93	97
LCSD 320-628963/3-A	Lab Control Sample Dup	95	95	100	99	98	98	100	97
LCSD 320-636130/3-A	Lab Control Sample Dup	86	96	100	97	99	107	85	90
MB 320-628958/1-A	Method Blank	92	97	101	97	97	94	109	103
MB 320-628962/1-A	Method Blank	92	97	100	96	96	91	101	98
MB 320-628963/1-A	Method Blank	99	100	103	100	99	97	100	102
MB 320-636130/1-A	Method Blank	83	89	91	95	93	96	82	82

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-224562-1	AECOM MW-18	104	102	85	108	107	116	101	103
500-224562-1 - DL	AECOM MW-18								
500-224562-2	AECOM MW-19	126	126	81	119	118	117	108	121
500-224562-2 - DL	AECOM MW-19								
500-224562-3	MW-17	105	99	99	114	100	111	102	108
500-224562-3 - DL	MW-17								
500-224562-4	FB-01	104	105	111	106	97	107	95	95
500-224562-5	EB-01	99	102	109	102	94	104	92	94
500-224562-6	MW-19	104	99	95	112	102	119	105	103
500-224562-6 - DL	MW-19								
500-224562-6 MS	MW-19	102	103	98	112	100	114	99	104
500-224562-6 MS - DL	MW-19								
500-224562-6 MSD	MW-19	101	92	95	110	97	110	95	98
500-224562-6 MSD - DL	MW-19								
500-224562-7	MW-19 DUP	105	93	93	107	97	116	101	103
500-224562-7 - DL	MW-19 DUP								
500-224562-8	MW-37	116	116	100	123	112	114	101	107
500-224562-8 - DL	MW-37								
500-224562-9	MW-233	95	92	108	109	95	108	87	92
500-224562-10	MW-67	103	93	99	108	98	108	100	108
500-224562-11	PZ-206	88	80	103	105	91	100	81	82
500-224562-12	MW-60	92	89	103	104	95	104	90	89
500-224562-13	MW-6	120	108	94	118	113	116	110	129
500-224562-14	EB-03	102	98	102	96	92	100	91	93
500-224562-15	FB-03	95	95	101	100	87	100	85	90
500-224562-16	PZ-200	83	84	97	100	84	98	81	86
500-224562-17	MW-200	87	83	91	88	74	90	79	83
500-224562-18	MW-5	117	117	105	117	101	117	100	104
500-224562-18 - DL	MW-5								
500-224562-19	MW-220	100	96	86	98	91	102	87	92
500-224562-20	MW-16	90	89	92	97	83	94	80	86
500-224562-21	MW-15	115	109	89	110	105	113	97	105
500-224562-21 - DL	MW-15								

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Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFD _{oA} (25-150)	PFT _{DA} (25-150)	C3PFBS (25-150)	PFH _{xS} (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFO _S (25-150)	d5NEFO _S (25-150)
500-224562-22	MW-3	113	106	89	99	90	103	98	108
500-224562-22 - DL	MW-3								
500-224562-23	MW-8	146	135	80	121	120	119	100	117
500-224562-23 - DL	MW-8								
500-224562-24	MW-7	135	133	97	115	109	115	99	118
500-224562-24 - DL	MW-7								
500-224562-25	PZ-214	99	93	88	94	85	98	83	91
500-224562-26	MW-31	115	92	95	113	110	96	84	108
500-224562-26 - DL	MW-31								
500-224562-27	MW-209	92	87	87	93	86	91	75	79
500-224562-28	MW-209 DUP	94	92	97	94	87	99	90	90
500-224562-29	EB-08	92	93	97	98	92	93	90	90
500-224562-30	FB-08	107	102	101	100	95	102	91	95
500-224562-31	MW-221	100	96	88	94	92	98	86	93
500-224562-32	MW-12	113	88	103	110	124	92	79	98
500-224562-33	MW-12 DUP	120	85	116	113	128	100	86	102
500-224562-34	MW-9	135	108	93	103	111	111	90	113
500-224562-35	EB-09	108	105	104	98	94	99	92	93
500-224562-36	FB-09	104	104	107	104	94	101	96	98
LCS 320-628958/2-A	Lab Control Sample	93	91	104	101	92	97	87	85
LCS 320-628962/2-A	Lab Control Sample	95	96	99	95	87	94	87	87
LCS 320-628963/2-A	Lab Control Sample	97	98	101	99	94	95	85	90
LCS 320-636130/2-A	Lab Control Sample	85	81	85	83	90	72	67	74
LCSD 320-628962/3-A	Lab Control Sample Dup	98	100	99	102	87	101	94	90
LCSD 320-628963/3-A	Lab Control Sample Dup	105	98	100	100	91	98	89	87
LCSD 320-636130/3-A	Lab Control Sample Dup	90	89	88	94	94	76	74	80
MB 320-628958/1-A	Method Blank	99	100	100	105	93	100	94	94
MB 320-628962/1-A	Method Blank	98	101	106	103	93	99	90	93
MB 320-628963/1-A	Method Blank	103	103	109	102	98	99	91	93
MB 320-636130/1-A	Method Blank	80	75	87	83	88	73	71	69

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		dMeFO _{SA} (10-150)	dEtFO _{SA} (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPO _{DA} (25-150)
500-224562-1	AECOM MW-18	91	89	92	93	92	108	104	79
500-224562-1 - DL	AECOM MW-18								
500-224562-2	AECOM MW-19	101	102	108	104	137	135	149	77
500-224562-2 - DL	AECOM MW-19								
500-224562-3	MW-17	87	82	89	85		96	134	89
500-224562-3 - DL	MW-17					113			
500-224562-4	FB-01	82	84	92	95	89	81	84	94
500-224562-5	EB-01	86	88	96	93	83	80	79	90
500-224562-6	MW-19	88	84	84	83	136	128	115	83
500-224562-6 - DL	MW-19								
500-224562-6 MS	MW-19	86	86	92	85	139	118	105	80
500-224562-6 MS - DL	MW-19								
500-224562-6 MSD	MW-19	81	78	80	80	135	116	99	80
500-224562-6 MSD - DL	MW-19								
500-224562-7	MW-19 DUP	90	83	85	84	135	123	110	84
500-224562-7 - DL	MW-19 DUP								
500-224562-8	MW-37	102	96	101	102	152 *5+	111	150	87

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Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-224562-8 - DL	MW-37								
500-224562-9	MW-233	80	84	83	84	103	87	85	94
500-224562-10	MW-67	88	87	85	82	140	134	131	82
500-224562-11	PZ-206	69	71	69	69	84	76	74	83
500-224562-12	MW-60	84	81	80	80	102	89	81	86
500-224562-13	MW-6	97	98	115	107	122	190 *5+	198 *5+	75
500-224562-14	EB-03	85	87	93	91	89	83	84	88
500-224562-15	FB-03	86	88	89	91	83	80	73	92
500-224562-16	PZ-200	82	81	81	79	104	80	71	85
500-224562-17	MW-200	74	72	80	78	85	72	66	90
500-224562-18	MW-5	97	98	102	103	124	95	102	98
500-224562-18 - DL	MW-5								
500-224562-19	MW-220	84	84	89	86	120	116	105	76
500-224562-20	MW-16	81	80	83	84	97	82	75	88
500-224562-21	MW-15	99	99	102	102		141	126	87
500-224562-21 - DL	MW-15					136			
500-224562-22	MW-3	90	93	100	96	118	85	112	83
500-224562-22 - DL	MW-3								
500-224562-23	MW-8	117	115	128	126	125	165 *5+	173 *5+	75
500-224562-23 - DL	MW-8								
500-224562-24	MW-7	114	110	118	122	117	133	165 *5+	88
500-224562-24 - DL	MW-7								
500-224562-25	PZ-214	84	81	83	83	99	99	97	83
500-224562-26	MW-31	99	86	98	90	206 *5+	201 *5+	206 *5+	80
500-224562-26 - DL	MW-31								
500-224562-27	MW-209	76	76	82	80	88	80	82	87
500-224562-28	MW-209 DUP	80	81	82	86	108	89	85	88
500-224562-29	EB-08	83	82	87	87	91	87	81	89
500-224562-30	FB-08	88	87	100	92	90	83	88	98
500-224562-31	MW-221	85	80	84	86	145	145	125	82
500-224562-32	MW-12	75	80	81	81	99	129	129	106
500-224562-33	MW-12 DUP	95	88	95	85	96	126	134	89
500-224562-34	MW-9	97	94	109	106	170 *5+	208 *5+	211 *5+	78
500-224562-35	EB-09	80	88	90	96	99	92	89	85
500-224562-36	FB-09	83	86	96	93	99	94	88	93
LCS 320-628958/2-A	Lab Control Sample	78	79	87	86	83	74	70	87
LCS 320-628962/2-A	Lab Control Sample	79	80	88	90	83	77	73	92
LCS 320-628963/2-A	Lab Control Sample	80	81	91	94	89	80	84	97
LCS 320-636130/2-A	Lab Control Sample	59	58	73	76	110	103	87	102
LCSD 320-628962/3-A	Lab Control Sample Dup	84	84	94	96	84	80	78	96
LCSD 320-628963/3-A	Lab Control Sample Dup	84	88	89	94	95	82	84	99
LCSD 320-636130/3-A	Lab Control Sample Dup	63	63	74	77	114	112	88	100
MB 320-628958/1-A	Method Blank	78	79	89	89	84	77	84	93
MB 320-628962/1-A	Method Blank	81	85	89	92	82	79	75	90
MB 320-628963/1-A	Method Blank	82	83	92	96	95	85	89	97
MB 320-636130/1-A	Method Blank	56	58	69	71	107	102	88	104

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		M102FTS (25-150)							
500-224562-1	AECOM MW-18	94							

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Isotope Dilution Summary

Client: Ramboll US Corporation
 Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-224562-1 - DL	AECOM MW-18	
500-224562-2	AECOM MW-19	115
500-224562-2 - DL	AECOM MW-19	
500-224562-3	MW-17	117
500-224562-3 - DL	MW-17	
500-224562-4	FB-01	82
500-224562-5	EB-01	84
500-224562-6	MW-19	86
500-224562-6 - DL	MW-19	
500-224562-6 MS	MW-19	86
500-224562-6 MS - DL	MW-19	
500-224562-6 MSD	MW-19	82
500-224562-6 MSD - DL	MW-19	
500-224562-7	MW-19 DUP	90
500-224562-7 - DL	MW-19 DUP	
500-224562-8	MW-37	118
500-224562-8 - DL	MW-37	
500-224562-9	MW-233	79
500-224562-10	MW-67	102
500-224562-11	PZ-206	70
500-224562-12	MW-60	76
500-224562-13	MW-6	155 *5+
500-224562-14	EB-03	89
500-224562-15	FB-03	76
500-224562-16	PZ-200	75
500-224562-17	MW-200	69
500-224562-18	MW-5	103
500-224562-18 - DL	MW-5	
500-224562-19	MW-220	87
500-224562-20	MW-16	71
500-224562-21	MW-15	108
500-224562-21 - DL	MW-15	
500-224562-22	MW-3	99
500-224562-22 - DL	MW-3	
500-224562-23	MW-8	145
500-224562-23 - DL	MW-8	
500-224562-24	MW-7	152 *5+
500-224562-24 - DL	MW-7	
500-224562-25	PZ-214	99
500-224562-26	MW-31	182 *5+
500-224562-26 - DL	MW-31	
500-224562-27	MW-209	74
500-224562-28	MW-209 DUP	83
500-224562-29	EB-08	88
500-224562-30	FB-08	88
500-224562-31	MW-221	99
500-224562-32	MW-12	137
500-224562-33	MW-12 DUP	123
500-224562-34	MW-9	161 *5+
500-224562-35	EB-09	92

Isotope Dilution Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-224562-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-224562-36	FB-09	91
LCS 320-628958/2-A	Lab Control Sample	71
LCS 320-628962/2-A	Lab Control Sample	76
LCS 320-628963/2-A	Lab Control Sample	86
LCS 320-636130/2-A	Lab Control Sample	96
LCSD 320-628962/3-A	Lab Control Sample Dup	79
LCSD 320-628963/3-A	Lab Control Sample Dup	88
LCSD 320-636130/3-A	Lab Control Sample Dup	102
MB 320-628958/1-A	Method Blank	77
MB 320-628962/1-A	Method Blank	76
MB 320-628963/1-A	Method Blank	93
MB 320-636130/1-A	Method Blank	96

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS