

Per- and Polyfluoralkyl Substances (PFAS) By EPA Method 537.1

REPORT OF ANALYSIS

Date Collected: 04/16/24	System Group Type: A
Water System ID Number: 93400	System Name: City of Washougal
Lab -- Sample Number: 218-39301	County: Clark
Sample Location: S11 BT	Source Number(s): (list all sources if blended or composited) 11
<u>Sample Purpose:</u> (check appropriate box) ☒ RC - Routine/Compliance (satisfies monitoring requirements) ☐ C - Confirmation (confirmation of chemical result)* ☐ I - Investigative (does not satisfy monitoring requirements) ☐ O - Other (specify-does not satisfy monitoring requirements)	Date Received: 04/17/24 Date Analyzed: 04/24/24 Date Reported: 05/01/24
<u>Sample Composition:</u> (check appropriate box) ☒ S - Single Source ☐ B - Blended (List source numbers in "Source Numbers" field) ☐ C - Composite (List source numbers in "Source Numbers" field) ☐ D - Distribution sample	<u>Sample Type:</u> (check one) ☒ Pre-Treatment/Untreated (Raw) ☐ Post-treatment (Finished) ☐ Unknown or Other Sample Collected by: Grant Lewis Phone Number: 360-835-2662

Send results to:
City of Washougal
Adam Connolly
1701 C Street, Washougal, WA 98671

Bill to:
City of Washougal
Accounts Payable
1701 C Street, Washougal, WA 98671

REQUIRED ANALYTICAL RESULTS

DOH #	CONSTITUENT	DATA QUALIFIERS	RESULTS	SDRL	SAL	UNITS	EXCEEDS SAL? (X if Yes)	METHOD/ Initials
0434	(PFOA) Perfluorooctanoic acid		3.28	2	10	ng/L		EPA 537.1 / CMF
0433	(PFOS) Perfluorooctanesulfonic acid		6.71	2	15	ng/L		EPA 537.1 / CMF
0431	(PFHxS) Perfluorohexanesulfonic acid		ND	2	65	ng/L		EPA 537.1 / CMF
0432	(PFNA) Perfluorononanoic acid		ND	2	9	ng/L		EPA 537.1 / CMF
0429	(PFBS) Perfluorobutanesulfonic acid		2.35	2	345	ng/L		EPA 537.1 / CMF
0430	(PFHpA) Perfluoroheptanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0435	(PFHxA) Perfluorohexanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0436	(PFDA) Perfluorodecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0437	(PFUnA) Perfluoroundecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0438	(PFDoA) Perfluorododecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0445	(ADONA) 4,8-Dioxa-3H-perfluorononanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0446	(9CI-PF3ONS) 9-Chlorohexadecafluoro-3-oxanone-1-su		ND	2	n/a	ng/L		EPA 537.1 / CMF
0447	(HFPO-DA) Hexafluoropropylene oxide dimer acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0448	(11CI-PF3OUDS) 11-Chloroeicosafluoro-3-oxaundecane		ND	2	n/a	ng/L		EPA 537.1 / CMF
0439	(PFTTrDA) Perfluorotridecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0440	(PFTA) Perfluorotetradecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0441	(NEtFOSAA) N-ethyl perfluorooctanesulfonamidoaceti		ND	2	n/a	ng/L		EPA 537.1 / CMF
0442	(NMeFOSAA) N-methyl perfluorooctanesulfonamidoacet		ND	2	n/a	ng/L		EPA 537.1 / CMF



BSK Associates Laboratory Fresno
1414 Stanislaus St
Fresno, CA 93706
559-497-2888 (Main)

VHD0393

5/01/2024

NOTES:

***Confirmation:** Include the original lab number, sample number, and collection date of original sample in either comment section.

****To qualify for a monitoring waiver the additional contaminants must be reported to DOH.**

DATA QUALIFIER: A symbol or letter to denote additional information about the result.

DOH#: Department assigned contaminant number.

Exceeds SAL: Marked if the contaminant amount exceeds the SAL under chapter 246-290 WAC. If you have questions about this result, please contact the department's drinking water regional office in your area.

METHOD/INITIALS: Analytical method used. / Initials of the analyst that performed the analysis.

ng/L: nanograms per liter or parts per trillion.

SAL (State Action Level) means the concentration of a contaminant or group of contaminants, without an MCL, established to protect public health in accordance with WAC 246-290-315 and which, if exceeded, triggers actions a purveyor takes in accordance with WAC 246-290-320.

SDRL (State Detection Reporting Limit): The minimum reportable detection of a contaminant as established by the department.

ND (Not Detected): In the results column, indicates this compound was analyzed and not detected at a level greater than or equal to the SDRL.

Lab Comments:

Per- and Polyfluoralkyl Substances (PFAS) By EPA Method 537.1

REPORT OF ANALYSIS

Date Collected: 04/16/24	System Group Type: A
Water System ID Number: 93400	System Name: City of Washougal
Lab -- Sample Number: 218-39303	County: Clark
Sample Location: S13 BT	Source Number(s): (list all sources if blended or composited) 13
<u>Sample Purpose:</u> (check appropriate box) ☒ RC - Routine/Compliance (satisfies monitoring requirements) ☐ C - Confirmation (confirmation of chemical result)* ☐ I - Investigative (does not satisfy monitoring requirements) ☐ O - Other (specify-does not satisfy monitoring requirements)	Date Received: 04/17/24 Date Analyzed: 04/24/24 Date Reported: 05/01/24
<u>Sample Composition:</u> (check appropriate box) ☒ S - Single Source ☐ B - Blended (List source numbers in "Source Numbers" field) ☐ C - Composite (List source numbers in "Source Numbers" field) ☐ D - Distribution sample	<u>Sample Type:</u> (check one) ☒ Pre-Treatment/Untreated (Raw) ☐ Post-treatment (Finished) ☐ Unknown or Other Sample Collected by: Grant Lewis Phone Number: 360-835-2662

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REQUIRED ANALYTICAL RESULTS

DOH #	CONSTITUENT	DATA QUALIFIERS	RESULTS	SDRL	SAL	UNITS	EXCEEDS SAL? (X if Yes)	METHOD/ Initials
0434	(PFOA) Perfluorooctanoic acid		4.12	2	10	ng/L		EPA 537.1 / CMF
0433	(PFOS) Perfluorooctanesulfonic acid		7.51	2	15	ng/L		EPA 537.1 / CMF
0431	(PFHxS) Perfluorohexanesulfonic acid		ND	2	65	ng/L		EPA 537.1 / CMF
0432	(PFNA) Perfluorononanoic acid		ND	2	9	ng/L		EPA 537.1 / CMF
0429	(PFBS) Perfluorobutanesulfonic acid		2.95	2	345	ng/L		EPA 537.1 / CMF
0430	(PFHpA) Perfluoroheptanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0435	(PFHxA) Perfluorohexanoic acid		2.75	2	n/a	ng/L		EPA 537.1 / CMF
0436	(PFDA) Perfluorodecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0437	(PFUnA) Perfluoroundecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0438	(PFDoA) Perfluorododecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0445	(ADONA) 4,8-Dioxa-3H-perfluorononanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0446	(9CI-PF3ONS) 9-Chlorohexadecafluoro-3-oxanone-1-su		ND	2	n/a	ng/L		EPA 537.1 / CMF
0447	(HFPO-DA) Hexafluoropropylene oxide dimer acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0448	(11CI-PF3OUDS) 11-Chloroeicosafluoro-3-oxaundecane		ND	2	n/a	ng/L		EPA 537.1 / CMF
0439	(PFTTrDA) Perfluorotridecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0440	(PFTA) Perfluorotetradecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0441	(NEtFOSAA) N-ethyl perfluorooctanesulfonamidoaceti		ND	2	n/a	ng/L		EPA 537.1 / CMF
0442	(NMeFOSAA) N-methyl perfluorooctanesulfonamidoacet		ND	2	n/a	ng/L		EPA 537.1 / CMF



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DATA QUALIFIER: A symbol or letter to denote additional information about the result.

DOH#: Department assigned contaminant number.

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METHOD/INITIALS: Analytical method used. / Initials of the analyst that performed the analysis.

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ND (Not Detected): In the results column, indicates this compound was analyzed and not detected at a level greater than or equal to the SDRL.

Lab Comments:

Per- and Polyfluoralkyl Substances (PFAS) By EPA Method 537.1

REPORT OF ANALYSIS

Date Collected: 04/16/24	System Group Type: A
Water System ID Number: 93400	System Name: City of Washougal
Lab -- Sample Number: 218-39305	County: Clark
Sample Location: S01 BT	Source Number(s): (list all sources if blended or composited) 01
<u>Sample Purpose: (check appropriate box)</u> ☒ RC - Routine/Compliance (satisfies monitoring requirements) ☐ C - Confirmation (confirmation of chemical result)* ☐ I - Investigative (does not satisfy monitoring requirements) ☐ O - Other (specify-does not satisfy monitoring requirements)	Date Received: 04/17/24 Date Analyzed: 04/25/24 Date Reported: 05/01/24
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0434	(PFOA) Perfluorooctanoic acid		3.14	2	10	ng/L		EPA 537.1 / CMF
0433	(PFOS) Perfluorooctanesulfonic acid		6.45	2	15	ng/L		EPA 537.1 / CMF
0431	(PFHxS) Perfluorohexanesulfonic acid		ND	2	65	ng/L		EPA 537.1 / CMF
0432	(PFNA) Perfluorononanoic acid		ND	2	9	ng/L		EPA 537.1 / CMF
0429	(PFBS) Perfluorobutanesulfonic acid		2.16	2	345	ng/L		EPA 537.1 / CMF
0430	(PFHpA) Perfluoroheptanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0435	(PFHxA) Perfluorohexanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
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0437	(PFUnA) Perfluoroundecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0438	(PFDoA) Perfluorododecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0445	(ADONA) 4,8-Dioxa-3H-perfluorononanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0446	(9CI-PF3ONS) 9-Chlorohexadecafluoro-3-oxanone-1-su		ND	2	n/a	ng/L		EPA 537.1 / CMF
0447	(HFPO-DA) Hexafluoropropylene oxide dimer acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0448	(11CI-PF3OUdS) 11-Chloroeicosafluoro-3-oxaundecane		ND	2	n/a	ng/L		EPA 537.1 / CMF
0439	(PFTrDA) Perfluorotridecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0440	(PFTA) Perfluorotetradecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0441	(NEtFOSAA) N-ethyl perfluorooctanesulfonamidoaceti		ND	2	n/a	ng/L		EPA 537.1 / CMF
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REPORT OF ANALYSIS

Date Collected: 04/16/24	System Group Type: A
Water System ID Number: 93400	System Name: City of Washougal
Lab -- Sample Number: 218-39307	County: Clark
Sample Location: S11 & S13 AT	Source Number(s): (list all sources if blended or composited) 11, 13
<u>Sample Purpose:</u> (check appropriate box) ☒ RC - Routine/Compliance (satisfies monitoring requirements) ☐ C - Confirmation (confirmation of chemical result)* ☐ I - Investigative (does not satisfy monitoring requirements) ☐ O - Other (specify-does not satisfy monitoring requirements)	Date Received: 04/17/24 Date Analyzed: 04/25/24 Date Reported: 05/01/24
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0429	(PFBS) Perfluorobutanesulfonic acid		2.83	2	345	ng/L		EPA 537.1 / CMF
0430	(PFHpA) Perfluoroheptanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0435	(PFHxA) Perfluorohexanoic acid		2.42	2	n/a	ng/L		EPA 537.1 / CMF
0436	(PFDA) Perfluorodecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
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0447	(HFPO-DA) Hexafluoropropylene oxide dimer acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0448	(11CI-PF3OUDS) 11-Chloroeicosafluoro-3-oxaundecane		ND	2	n/a	ng/L		EPA 537.1 / CMF
0439	(PFTTrDA) Perfluorotridecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0440	(PFTA) Perfluorotetradecanoic acid		ND	2	n/a	ng/L		EPA 537.1 / CMF
0441	(NEtFOSAA) N-ethyl perfluorooctanesulfonamidoaceti		ND	2	n/a	ng/L		EPA 537.1 / CMF
0442	(NMeFOSAA) N-methyl perfluorooctanesulfonamidoacet		ND	2	n/a	ng/L		EPA 537.1 / CMF



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5/01/2024

BSK Associates Laboratory Fresno
Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 537.1 - Quality Control

Batch: AHD1518

Prepared: 4/24/2024

Prep Method: EPA 537.1

Analyst: CMF

Blank (AHD1518-BLK1)

11CI-PF3OUdS	ND	2.00	ng/L							04/24/24	
9CI-PF3ONS	ND	2.00	ng/L							04/24/24	
ADONA	ND	2.00	ng/L							04/24/24	
HFPO-DA	ND	2.00	ng/L							04/24/24	
NEtFOSAA	ND	3.00	ng/L							04/24/24	
NMeFOSAA	ND	3.00	ng/L							04/24/24	
PFBS	ND	2.00	ng/L							04/24/24	
PFDA	ND	2.00	ng/L							04/24/24	
PFDoA	ND	2.00	ng/L							04/24/24	
PFHpA	ND	2.00	ng/L							04/24/24	
PFHxA	ND	2.00	ng/L							04/24/24	
PFHxS	ND	2.00	ng/L							04/24/24	
PFNA	ND	2.00	ng/L							04/24/24	
PFOA	ND	2.00	ng/L							04/24/24	
PFOS	ND	2.00	ng/L							04/24/24	
PFTDA	ND	2.00	ng/L							04/24/24	
PFTTrDA	ND	2.00	ng/L							04/24/24	
PFUnDA	ND	2.00	ng/L							04/24/24	
Surrogate: 13C2-PFDA	155			160		97	70-130			04/24/24	
Surrogate: 13C2-PFHxA	168			160		105	70-130			04/24/24	
Surrogate: 13C3-HFPO-DA	155			160		97	70-130			04/24/24	
Surrogate: d5-NEtFOSAA	168			160		105	70-130			04/24/24	

Blank Spike (AHD1518-BS1)

11CI-PF3OUdS	1.89	2.00	ng/L	2.00	ND	95	70-130			04/24/24	
9CI-PF3ONS	2.02	2.00	ng/L	2.00	ND	101	70-130			04/24/24	
ADONA	1.84	2.00	ng/L	2.00	ND	92	70-130			04/24/24	
HFPO-DA	1.90	2.00	ng/L	2.00	ND	95	70-130			04/24/24	
NEtFOSAA	2.22	3.00	ng/L	2.00	ND	111	70-130			04/24/24	
NMeFOSAA	1.95	3.00	ng/L	2.00	ND	97	70-130			04/24/24	
PFBS	1.90	2.00	ng/L	2.00	ND	95	70-130			04/24/24	
PFDA	1.88	2.00	ng/L	2.00	ND	94	70-130			04/24/24	
PFDoA	1.90	2.00	ng/L	2.00	ND	95	70-130			04/24/24	
PFHpA	2.00	2.00	ng/L	2.00	ND	100	70-130			04/24/24	
PFHxA	2.21	2.00	ng/L	2.00	ND	110	70-130			04/24/24	
PFHxS	1.88	2.00	ng/L	2.00	ND	94	70-130			04/24/24	
PFNA	1.88	2.00	ng/L	2.00	ND	94	70-130			04/24/24	
PFOA	2.04	2.00	ng/L	2.00	ND	102	70-130			04/24/24	
PFOS	2.17	2.00	ng/L	2.00	ND	109	70-130			04/24/24	
PFTDA	1.71	2.00	ng/L	2.00	ND	86	70-130			04/24/24	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

VHD0393 FINAL 05012024 1104



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VHD0393

5/01/2024

BSK Associates Laboratory Fresno
Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 537.1 - Quality Control

Batch: AHD1518

Prepared: 4/24/2024

Prep Method: EPA 537.1

Analyst: CMF

Blank Spike (AHD1518-BS1)

PFTTrDA	1.78	2.00	ng/L	2.00	ND	89	70-130			04/24/24
PFUnDA	2.00	2.00	ng/L	2.00	ND	100	70-130			04/24/24
Surrogate: 13C2-PFDA	158			160		99	70-130			04/24/24
Surrogate: 13C2-PFHxA	163			160		102	70-130			04/24/24
Surrogate: 13C3-HFPO-DA	151			160		95	70-130			04/24/24
Surrogate: d5-NEtFOSAA	176			160		110	70-130			04/24/24

Matrix Spike (AHD1518-MS1), Source: VHD0393-01

11CI-PF3OUdS	9.96	2.00	ng/L	10.2	ND	98	70-130			04/24/24
9CI-PF3ONS	10.7	2.00	ng/L	10.2	ND	104	70-130			04/24/24
ADONA	10.4	2.00	ng/L	10.2	ND	102	70-130			04/24/24
HFPO-DA	9.88	2.00	ng/L	10.2	ND	97	70-130			04/24/24
NEtFOSAA	10.9	3.00	ng/L	10.2	ND	106	70-130			04/24/24
NMeFOSAA	10.7	3.00	ng/L	10.2	ND	105	70-130			04/24/24
PFBS	12.9	2.00	ng/L	10.2	2.35	103	70-130			04/24/24
PFDA	9.92	2.00	ng/L	10.2	ND	97	70-130			04/24/24
PFDaA	9.43	2.00	ng/L	10.2	ND	92	70-130			04/24/24
PFHpA	11.7	2.00	ng/L	10.2	ND	106	70-130			04/24/24
PFHxA	12.9	2.00	ng/L	10.2	ND	107	70-130			04/24/24
PFHxS	11.3	2.00	ng/L	10.2	ND	101	70-130			04/24/24
PFNA	10.2	2.00	ng/L	10.2	ND	100	70-130			04/24/24
PFOA	14.7	2.00	ng/L	10.2	3.28	112	70-130			04/24/24
PFOS	18.0	2.00	ng/L	10.2	6.71	110	70-130			04/24/24
PFTDA	8.98	2.00	ng/L	10.2	ND	88	70-130			04/24/24
PFTTrDA	9.76	2.00	ng/L	10.2	ND	96	70-130			04/24/24
PFUnDA	11.2	2.00	ng/L	10.2	ND	110	70-130			04/24/24
Surrogate: 13C2-PFDA	167			163		102	70-130			04/24/24
Surrogate: 13C2-PFHxA	171			163		105	70-130			04/24/24
Surrogate: 13C3-HFPO-DA	163			163		100	70-130			04/24/24
Surrogate: d5-NEtFOSAA	167			163		102	70-130			04/24/24

Matrix Spike Dup (AHD1518-MSD1), Source: VHD0393-01

11CI-PF3OUdS	9.88	2.00	ng/L	9.80	ND	101	70-130	1	30	04/24/24
9CI-PF3ONS	10.0	2.00	ng/L	9.80	ND	102	70-130	6	30	04/24/24
ADONA	10.4	2.00	ng/L	9.80	ND	106	70-130	1	30	04/24/24
HFPO-DA	9.45	2.00	ng/L	9.80	ND	96	70-130	4	30	04/24/24
NEtFOSAA	9.96	3.00	ng/L	9.80	ND	102	70-130	9	30	04/24/24
NMeFOSAA	12.3	3.00	ng/L	9.80	ND	126	70-130	14	30	04/24/24
PFBS	12.1	2.00	ng/L	9.80	2.35	99	70-130	6	30	04/24/24
PFDA	10.1	2.00	ng/L	9.80	ND	103	70-130	2	30	04/24/24
PFDaA	9.61	2.00	ng/L	9.80	ND	98	70-130	2	30	04/24/24

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VHD0393 FINAL 05012024 1104



BSK Associates Laboratory Fresno
1414 Stanislaus St
Fresno, CA 93706
559-497-2888 (Main)

VHD0393

5/01/2024

BSK Associates Laboratory Fresno
Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 537.1 - Quality Control

Batch: AHD1518

Prepared: 4/24/2024

Prep Method: EPA 537.1

Analyst: CMF

Matrix Spike Dup (AHD1518-MSD1), Source: VHD0393-01

PFHpA	11.2	2.00	ng/L	9.80	ND	105	70-130	5	30	04/24/24
PFHxA	12.5	2.00	ng/L	9.80	ND	108	70-130	3	30	04/24/24
PFHxS	10.8	2.00	ng/L	9.80	ND	100	70-130	5	30	04/24/24
PFNA	9.88	2.00	ng/L	9.80	ND	101	70-130	3	30	04/24/24
PFOA	13.5	2.00	ng/L	9.80	3.28	105	70-130	9	30	04/24/24
PFOS	17.1	2.00	ng/L	9.80	6.71	106	70-130	5	30	04/24/24
PFTDA	8.51	2.00	ng/L	9.80	ND	87	70-130	5	30	04/24/24
PFTTrDA	8.94	2.00	ng/L	9.80	ND	91	70-130	9	30	04/24/24
PFUnDA	10.4	2.00	ng/L	9.80	ND	106	70-130	7	30	04/24/24
Surrogate: 13C2-PFDA	162			157		103	70-130			04/24/24
Surrogate: 13C2-PFHxA	150			157		96	70-130			04/24/24
Surrogate: 13C3-HFPO-DA	150			157		96	70-130			04/24/24
Surrogate: d5-NEtFOSAA	162			157		103	70-130			04/24/24

EPA 537.1 - Quality Control

Batch: AHD1693

Prepared: 4/25/2024

Prep Method: EPA 537.1

Analyst: JNG

Blank (AHD1693-BLK1)

11CI-PF3OUdS	ND	2.0	ng/L							04/26/24
9CI-PF3ONS	ND	2.0	ng/L							04/26/24
ADONA	ND	2.0	ng/L							04/26/24
HFPO-DA	ND	2.0	ng/L							04/26/24
NEtFOSAA	ND	3.0	ng/L							04/26/24
NMeFOSAA	ND	3.0	ng/L							04/26/24
PFBS	ND	2.0	ng/L							04/26/24
PFDA	ND	2.0	ng/L							04/26/24
PFDaA	ND	2.0	ng/L							04/26/24
PFHpA	ND	2.0	ng/L							04/26/24
PFHxA	ND	2.0	ng/L							04/26/24
PFHxS	ND	2.0	ng/L							04/26/24
PFNA	ND	2.0	ng/L							04/26/24
PFOA	ND	2.0	ng/L							04/26/24
PFOS	ND	2.0	ng/L							04/26/24
PFTDA	ND	2.0	ng/L							04/26/24
PFTTrDA	ND	2.0	ng/L							04/26/24
PFUnDA	ND	2.0	ng/L							04/26/24
Surrogate: 13C2-PFDA	180			160		111	70-130			04/26/24
Surrogate: 13C2-PFHxA	170			160		107	70-130			04/26/24
Surrogate: 13C3-HFPO-DA	160			160		101	70-130			04/26/24
Surrogate: d5-NEtFOSAA	170			160		109	70-130			04/26/24

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VHD0393 FINAL 05012024 1104



BSK Associates Laboratory Fresno
1414 Stanislaus St
Fresno, CA 93706
559-497-2888 (Main)

VHD0393
5/01/2024

BSK Associates Laboratory Fresno
Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 537.1 - Quality Control

Batch: AHD1693

Prepared: 4/25/2024

Prep Method: EPA 537.1

Analyst: JNG

Blank Spike (AHD1693-BS1)

11CI-PF3OUdS	10	2.0	ng/L	10	ND	104	70-130			04/26/24	
9CI-PF3ONS	11	2.0	ng/L	10	ND	107	70-130			04/26/24	
ADONA	10	2.0	ng/L	10	ND	104	70-130			04/26/24	
HFPO-DA	10	2.0	ng/L	10	ND	102	70-130			04/26/24	
NEtFOSAA	11	3.0	ng/L	10	ND	112	70-130			04/26/24	
NMeFOSAA	10	3.0	ng/L	10	ND	100	70-130			04/26/24	
PFBS	9.8	2.0	ng/L	10	ND	98	70-130			04/26/24	
PFDA	10	2.0	ng/L	10	ND	104	70-130			04/26/24	
PFDaA	10	2.0	ng/L	10	ND	102	70-130			04/26/24	
PFHpA	11	2.0	ng/L	10	ND	106	70-130			04/26/24	
PFHxA	11	2.0	ng/L	10	ND	110	70-130			04/26/24	
PFHxS	9.7	2.0	ng/L	10	ND	97	70-130			04/26/24	
PFNA	11	2.0	ng/L	10	ND	113	70-130			04/26/24	
PFOA	11	2.0	ng/L	10	ND	108	70-130			04/26/24	
PFOS	10	2.0	ng/L	10	ND	101	70-130			04/26/24	
PFTDA	10	2.0	ng/L	10	ND	100	70-130			04/26/24	
PFTTrDA	11	2.0	ng/L	10	ND	106	70-130			04/26/24	
PFUnDA	11	2.0	ng/L	10	ND	110	70-130			04/26/24	
Surrogate: 13C2-PFDA	170			160		109	70-130			04/26/24	
Surrogate: 13C2-PFHxA	160			160		103	70-130			04/26/24	
Surrogate: 13C3-HFPO-DA	160			160		102	70-130			04/26/24	
Surrogate: d5-NEtFOSAA	180			160		110	70-130			04/26/24	

Matrix Spike (AHD1693-MS1), Source: AHD3575-01

11CI-PF3OUdS	35	2.0	ng/L	32	ND	111	70-130			04/26/24	
9CI-PF3ONS	35	2.0	ng/L	32	ND	110	70-130			04/26/24	
ADONA	34	2.0	ng/L	32	ND	106	70-130			04/26/24	
HFPO-DA	35	2.0	ng/L	32	ND	110	70-130			04/26/24	
NEtFOSAA	37	3.0	ng/L	32	ND	115	70-130			04/26/24	
NMeFOSAA	31	3.0	ng/L	32	ND	99	70-130			04/26/24	
PFBS	33	2.0	ng/L	32	ND	103	70-130			04/26/24	
PFDA	36	2.0	ng/L	32	ND	113	70-130			04/26/24	
PFDaA	34	2.0	ng/L	32	ND	108	70-130			04/26/24	
PFHpA	35	2.0	ng/L	32	ND	109	70-130			04/26/24	
PFHxA	36	2.0	ng/L	32	ND	115	70-130			04/26/24	
PFHxS	31	2.0	ng/L	32	ND	98	70-130			04/26/24	
PFNA	37	2.0	ng/L	32	ND	116	70-130			04/26/24	
PFOA	35	2.0	ng/L	32	ND	112	70-130			04/26/24	
PFOS	34	2.0	ng/L	32	ND	107	70-130			04/26/24	
PFTDA	34	2.0	ng/L	32	ND	108	70-130			04/26/24	

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VHD0393 FINAL 05012024 1104



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1414 Stanislaus St
Fresno, CA 93706
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VHD0393

5/01/2024

BSK Associates Laboratory Fresno
Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 537.1 - Quality Control

Batch: AHD1693

Prepared: 4/25/2024

Prep Method: EPA 537.1

Analyst: JNG

Matrix Spike (AHD1693-MS1), Source: AHD3575-01

PFTTrDA	35	2.0	ng/L	32	ND	111	70-130			04/26/24	
PFUnDA	34	2.0	ng/L	32	ND	107	70-130			04/26/24	
Surrogate: 13C2-PFDA	180			170		109	70-130			04/26/24	
Surrogate: 13C2-PFHxA	180			170		107	70-130			04/26/24	
Surrogate: 13C3-HFPO-DA	190			170		112	70-130			04/26/24	
Surrogate: d5-NEtFOSAA	170			170		102	70-130			04/26/24	

Matrix Spike Dup (AHD1693-MSD1), Source: AHD3575-01

11CI-PF3OUdS	33	2.0	ng/L	31	ND	106	70-130	7	30	04/26/24	
9CI-PF3ONS	32	2.0	ng/L	31	ND	104	70-130	8	30	04/26/24	
ADONA	32	2.0	ng/L	31	ND	105	70-130	4	30	04/26/24	
HFPO-DA	34	2.0	ng/L	31	ND	112	70-130	1	30	04/26/24	
NEtFOSAA	35	3.0	ng/L	31	ND	114	70-130	4	30	04/26/24	
NMeFOSAA	33	3.0	ng/L	31	ND	106	70-130	4	30	04/26/24	
PFBS	32	2.0	ng/L	31	ND	103	70-130	3	30	04/26/24	
PFDA	33	2.0	ng/L	31	ND	107	70-130	9	30	04/26/24	
PFDaA	32	2.0	ng/L	31	ND	104	70-130	6	30	04/26/24	
PFHpA	33	2.0	ng/L	31	ND	107	70-130	4	30	04/26/24	
PFHxA	35	2.0	ng/L	31	ND	115	70-130	3	30	04/26/24	
PFHxS	30	2.0	ng/L	31	ND	97	70-130	3	30	04/26/24	
PFNA	34	2.0	ng/L	31	ND	111	70-130	7	30	04/26/24	
PFOA	34	2.0	ng/L	31	ND	110	70-130	5	30	04/26/24	
PFOS	33	2.0	ng/L	31	ND	108	70-130	2	30	04/26/24	
PFTDA	32	2.0	ng/L	31	ND	105	70-130	6	30	04/26/24	
PFTTrDA	34	2.0	ng/L	31	ND	111	70-130	2	30	04/26/24	
PFUnDA	34	2.0	ng/L	31	ND	110	70-130	0	30	04/26/24	
Surrogate: 13C2-PFDA	180			160		107	70-130			04/26/24	
Surrogate: 13C2-PFHxA	180			160		107	70-130			04/26/24	
Surrogate: 13C3-HFPO-DA	180			160		112	70-130			04/26/24	
Surrogate: d5-NEtFOSAA	180			160		109	70-130			04/26/24	