



Report Prepared For:

Tualatin Valley Water District

Client Project Description:

UCMR5_12E

Work Order: PDI0006

Date of Preparation: 02-06-2024



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Bend, OR *Microbiology (e)* 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

February 06, 2024

Bill Richmond
Tualatin Valley Water District
1850 SW 170th Ave
Beaverton, OR 97006

RE: UCMR5

Enclosed are the analytical results for Work Order PDI0006 received by our laboratory on 10/16/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Thanh B Phan". The signature is fluid and cursive, with a long horizontal stroke at the end.

Thanh B Phan
Lab Manager, Portland

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Tualatin Valley Water District
 1850 SW 170th Ave
 Beaverton, OR 97006

Project: UCMR5
 Project Number: UCMR5_12E
 Project Manager: Bill Richmond

Reported:
 02/06/2024 12:39

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
PDI0006-01	OR4100665-00664-3 FS	Drinking Water	10/16/2023	10/16/2023
PDI0006-01	OR4100665-00664-3 FS	Drinking Water	10/16/2023	10/16/2023
PDI0006-03	OR4100665-11988-EP001 FS	Drinking Water	10/16/2023	10/16/2023
PDI0006-03	OR4100665-11988-EP001 FS	Drinking Water	10/16/2023	10/16/2023
PDI0006-05	OR4100665-12086-EP002 FS	Drinking Water	10/16/2023	10/16/2023
PDI0006-05	OR4100665-12086-EP002 FS	Drinking Water	10/16/2023	10/16/2023

<p>Tualatin Valley Water District 1850 SW 170th Ave Beaverton, OR 97006</p>	<p>Project: UCMR5 Project Number: UCMR5_12E Project Manager: Bill Richmond</p>	<p>Reported: 02/06/2024 12:39</p>
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Sample Results

Sample Description: OR4100665-00664-3 FS	Comments:	Sampled: 10/16/2023 10:00:00AM
Lab Number: PDI0006-01 (Drinking Water)		Collected By: Bill Richmond

Analyzed By *Anatek Labs Inc, Moscow ID*

Semivolatiles

CAS	Analyte	Result	Qual	Quantitation Limit	Detection Limit	Units	Date Analyzed	Analyst Initials	Method
763051-92-9	11CI-PF3OUdS	ND		0.0050	0.0008	ug/L	10/31/2023	MER	EPA 533
756426-58-1	9CI-PF3ONS	ND		0.0020	0.0008	ug/L			EPA 533
919005-14-4	ADONA	ND		0.0030	0.0008	ug/L			EPA 533
13252-13-6	HFPO-DA	ND		0.0050	0.0008	ug/L			EPA 533
151772-58-6	NFDHA	ND		0.0200	0.0008	ug/L			EPA 533
375-22-4	PFBA	ND		0.0050	0.0008	ug/L			EPA 533
375-73-5	PFBS	ND		0.0030	0.0008	ug/L			EPA 533
39108-34-4	8:2FTS	ND		0.0050	0.0008	ug/L			EPA 533
335-76-2	PFDA	ND		0.0030	0.0008	ug/L			EPA 533
307-55-1	PFDoA	ND		0.0030	0.0008	ug/L			EPA 533
113507-82-7	PFEESA	ND		0.0030	0.0008	ug/L			EPA 533
375-92-8	PFHpS	ND		0.0030	0.0008	ug/L			EPA 533
375-85-9	PFHpA	ND		0.0030	0.0008	ug/L			EPA 533
757124-72-4	4:2FTS	ND		0.0030	0.0008	ug/L			EPA 533
355-46-4	PFHxS	ND		0.0030	0.0008	ug/L			EPA 533
307-24-4	PFHxA	ND		0.0030	0.0008	ug/L			EPA 533
377-73-1	PFMPA	ND		0.0040	0.0008	ug/L			EPA 533
863090-89-5	PFMBA	ND		0.0040	0.0008	ug/L			EPA 533
375-95-1	PFNA	ND		0.0040	0.0008	ug/L			EPA 533
27619-97-2	6:2FTS	ND		0.0050	0.0008	ug/L			EPA 533
1763-23-1	PFOS	ND		0.0040	0.0008	ug/L			EPA 533
335-67-1	PFOA	ND		0.0040	0.0008	ug/L			EPA 533
2706-90-3	PFPeA	ND		0.0030	0.0008	ug/L			EPA 533
2706-91-4	PFPeS	ND		0.0040	0.0008	ug/L			EPA 533
2058-94-8	PFUnA	ND		0.0020	0.0008	ug/L			EPA 533
<hr style="border-top: 1px dashed #000;"/>									
<i>Surrogate: 13C2-4:2FTS IDA</i>		<i>110%</i>		<i>70-130</i>			<i>10/31/2023</i>	<i>MER</i>	<i>EPA 533</i>
<i>Surrogate: 13C2-6:2FTS IDA</i>		<i>127%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C2-8:2FTS IDA</i>		<i>94%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C4-PFBA IDA</i>		<i>102%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C3-PFBS IDA</i>		<i>103%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C6-PFDA IDA</i>		<i>79%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C5-PFPeA IDA</i>		<i>103%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C8-PFOA IDA</i>		<i>99%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C8-PFOS IDA</i>		<i>101%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C9-PFNA IDA</i>		<i>91%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C2-PFDoA IDA</i>		<i>84%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C4-PFHpA IDA</i>		<i>99%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C3-HFPO-DA IDA</i>		<i>90%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C7-PFUnA IDA</i>		<i>79%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C5-PFHxA IDA</i>		<i>97%</i>		<i>70-130</i>					<i>EPA 533</i>
<i>Surrogate: 13C3-PFHxS IDA</i>		<i>105%</i>		<i>70-130</i>					<i>EPA 533</i>

Tualatin Valley Water District 1850 SW 170th Ave Beaverton, OR 97006	Project: UCMR5 Project Number: UCMR5_12E Project Manager: Bill Richmond	Reported: 02/06/2024 12:39
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Sample Results
(Continued)

Sample Description: OR4100665-00664-3 FS	Comments:	Sampled: 10/16/2023 10:00:00AM
Lab Number: PDI0006-01 (Drinking Water)		Collected By: Bill Richmond

Analyzed By **Edge Analytical - Portland**

Metals by ICP

CAS	Analyte	Result	Qual	Quantitation Limit	Detection Limit	Units	Date Analyzed	Analyst Initials	Method
7439-93-2	Lithium	ND		9.00	0.200	ug/L	10/25/2023	BJ	EPA 200.7
<i>Surrogate: Scandium</i>		<i>92.4%</i>		<i>59.5-125.5</i>			<i>10/25/2023</i>	<i>BJ</i>	<i>EPA 200.7</i>

Perfluorinated Compounds

2355-31-9	NMeFOSAA	ND		0.00400	0.000870	ug/L	11/25/2023	NML	EPA 537.1
2991-50-6	NEtFOSAA	ND		0.00400	0.000500	ug/L			EPA 537.1
72629-94-8	PFTriDA	ND		0.00400	0.000560	ug/L			EPA 537.1
376-06-7	PFTA	ND		0.00400	0.000570	ug/L			EPA 537.1
<i>Surrogate: 13C2-PFOA-CCC</i>		<i>89.0%</i>		<i>69.5-140.5</i>			<i>11/25/2023</i>	<i>NML</i>	<i>EPA 537.1</i>
<i>Surrogate: 13C2-PFOA</i>		<i>10.5%</i>		<i>49.5-150.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C4-PFOS-CCC</i>		<i>90.0%</i>		<i>69.5-140.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C4-PFOS</i>		<i>3.53%</i>		<i>49.5-150.5</i>					<i>EPA 537.1</i>
<i>Surrogate: D3-NMeFOSAA-CCC</i>		<i>89.0%</i>		<i>69.5-140.5</i>					<i>EPA 537.1</i>
<i>Surrogate: D3-NMeFOSAA</i>		<i>2.55%</i>		<i>49.5-150.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C2-PFHxA</i>		<i>95.0%</i>		<i>69.5-130.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C3-HFPO-DA</i>		<i>100%</i>		<i>69.5-130.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C2-PFDA</i>		<i>96.0%</i>		<i>69.5-130.5</i>					<i>EPA 537.1</i>
<i>Surrogate: d5-NEtFOSAA</i>		<i>100%</i>		<i>69.5-130.5</i>					<i>EPA 537.1</i>

Tualatin Valley Water District
 1850 SW 170th Ave
 Beaverton, OR 97006

Project: UCMR5
 Project Number: UCMR5_12E
 Project Manager: Bill Richmond

Reported:
 02/06/2024 12:39

Sample Results
 (Continued)

Sample Description: OR4100665-11988-EP001 FS	Comments:	Sampled: 10/16/2023 1:15:00PM
Lab Number: PDI0006-03 (Drinking Water)		Collected By: Bill Richmond

Analyzed By *Anatek Labs Inc, Moscow ID*

Semivolatiles

CAS	Analyte	Result	Qual	Quantitation Limit	Detection Limit	Units	Date Analyzed	Analyst Initials	Method
763051-92-9	11CI-PF3OUdS	ND		0.0050	0.0008	ug/L	10/25/2023	MER	EPA 533
756426-58-1	9CI-PF3ONS	ND		0.0020	0.0008	ug/L			EPA 533
919005-14-4	ADONA	ND		0.0030	0.0008	ug/L			EPA 533
13252-13-6	HFPO-DA	ND		0.0050	0.0008	ug/L			EPA 533
151772-58-6	NFDHA	ND		0.0200	0.0008	ug/L			EPA 533
375-22-4	PFBA	ND		0.0050	0.0008	ug/L			EPA 533
375-73-5	PFBS	ND		0.0030	0.0008	ug/L			EPA 533
39108-34-4	8:2FTS	ND		0.0050	0.0008	ug/L			EPA 533
335-76-2	PFDA	ND		0.0030	0.0008	ug/L			EPA 533
307-55-1	PFDoA	ND		0.0030	0.0008	ug/L			EPA 533
113507-82-7	PFEESA	ND		0.0030	0.0008	ug/L			EPA 533
375-92-8	PFHpS	ND		0.0030	0.0008	ug/L			EPA 533
375-85-9	PFHpA	ND		0.0030	0.0008	ug/L			EPA 533
757124-72-4	4:2FTS	ND		0.0030	0.0008	ug/L			EPA 533
355-46-4	PFHxS	ND		0.0030	0.0008	ug/L			EPA 533
307-24-4	PFHxA	ND		0.0030	0.0008	ug/L			EPA 533
377-73-1	PFMPA	ND		0.0040	0.0008	ug/L			EPA 533
863090-89-5	PFMBA	ND		0.0040	0.0008	ug/L			EPA 533
375-95-1	PFNA	ND		0.0040	0.0008	ug/L			EPA 533
27619-97-2	6:2FTS	ND		0.0050	0.0008	ug/L			EPA 533
1763-23-1	PFOS	ND		0.0040	0.0008	ug/L			EPA 533
335-67-1	PFOA	ND		0.0040	0.0008	ug/L			EPA 533
2706-90-3	PFPeA	ND		0.0030	0.0008	ug/L			EPA 533
2706-91-4	PFPeS	ND		0.0040	0.0008	ug/L			EPA 533
2058-94-8	PFUnA	ND		0.0020	0.0008	ug/L			EPA 533
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	<i>Surrogate: 13C2-4:2FTS IDA</i>	<i>114%</i>		<i>70-130</i>			<i>10/25/2023</i>	<i>MER</i>	<i>EPA 533</i>
	<i>Surrogate: 13C2-6:2FTS IDA</i>	<i>127%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C2-8:2FTS IDA</i>	<i>107%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C4-PFBA IDA</i>	<i>112%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C3-PFBS IDA</i>	<i>124%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C6-PFDA IDA</i>	<i>92%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C5-PFPeA IDA</i>	<i>107%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C8-PFOA IDA</i>	<i>115%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C8-PFOS IDA</i>	<i>114%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C9-PFNA IDA</i>	<i>101%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C2-PFDoA IDA</i>	<i>71%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C4-PFHpA IDA</i>	<i>102%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C3-HFPO-DA IDA</i>	<i>111%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C7-PFUnA IDA</i>	<i>85%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C5-PFHxA IDA</i>	<i>114%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C3-PFHxS IDA</i>	<i>119%</i>		<i>70-130</i>					<i>EPA 533</i>

Tualatin Valley Water District 1850 SW 170th Ave Beaverton, OR 97006	Project: UCMR5 Project Number: UCMR5_12E Project Manager: Bill Richmond	Reported: 02/06/2024 12:39
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Sample Results
(Continued)

Sample Description: OR4100665-11988-EP001 FS	Comments:	Sampled: 10/16/2023 1:15:00PM
Lab Number: PDI0006-03 (Drinking Water)		Collected By: Bill Richmond

Analyzed By **Edge Analytical - Portland**

Metals by ICP

7439-93-2	Lithium	ND	9.00	0.200	ug/L	10/25/2023	BJ	EPA 200.7
<i>Surrogate: Scandium</i>		<i>93.9%</i>	<i>59.5-125.5</i>			<i>10/25/2023</i>	<i>BJ</i>	<i>EPA 200.7</i>

Perfluorinated Compounds

2355-31-9	NMeFOSAA	ND	0.00400	0.000870	ug/L	11/25/2023	NML	EPA 537.1
2991-50-6	NEtFOSAA	ND	0.00400	0.000500	ug/L			EPA 537.1
72629-94-8	PFTriDA	ND	0.00400	0.000560	ug/L			EPA 537.1
376-06-7	PFTA	ND	0.00400	0.000570	ug/L			EPA 537.1
<i>Surrogate: 13C2-PFOA-CCC</i>		<i>85.0%</i>	<i>69.5-140.5</i>			<i>11/25/2023</i>	<i>NML</i>	<i>EPA 537.1</i>
<i>Surrogate: 13C2-PFOA</i>		<i>10.0%</i>	<i>49.5-150.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C4-PFOS-CCC</i>		<i>85.0%</i>	<i>69.5-140.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C4-PFOS</i>		<i>3.33%</i>	<i>49.5-150.5</i>					<i>EPA 537.1</i>
<i>Surrogate: D3-NMeFOSAA-CCC</i>		<i>85.0%</i>	<i>69.5-140.5</i>					<i>EPA 537.1</i>
<i>Surrogate: D3-NMeFOSAA</i>		<i>2.45%</i>	<i>49.5-150.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C2-PFHxA</i>		<i>95.0%</i>	<i>69.5-130.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C3-HFPO-DA</i>		<i>91.0%</i>	<i>69.5-130.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C2-PFDA</i>		<i>96.0%</i>	<i>69.5-130.5</i>					<i>EPA 537.1</i>
<i>Surrogate: d5-NEtFOSAA</i>		<i>99.0%</i>	<i>69.5-130.5</i>					<i>EPA 537.1</i>

Tualatin Valley Water District
 1850 SW 170th Ave
 Beaverton, OR 97006

Project: UCMR5
 Project Number: UCMR5_12E
 Project Manager: Bill Richmond

Reported:
 02/06/2024 12:39

Sample Results
 (Continued)

Sample Description: OR4100665-12086-EP002 FS	Comments:	Sampled: 10/16/2023 12:30:00PM
Lab Number: PDI0006-05 (Drinking Water)		Collected By: Bill Richmond

Analyzed By *Anatek Labs Inc, Moscow ID*

Semivolatiles

CAS	Analyte	Result	Qual	Quantitation Limit	Detection Limit	Units	Date Analyzed	Analyst Initials	Method
763051-92-9	11CI-PF3OUdS	ND		0.0050	0.0008	ug/L	10/25/2023	MER	EPA 533
756426-58-1	9CI-PF3ONS	ND		0.0020	0.0008	ug/L			EPA 533
919005-14-4	ADONA	ND		0.0030	0.0008	ug/L			EPA 533
13252-13-6	HFPO-DA	ND		0.0050	0.0008	ug/L			EPA 533
151772-58-6	NFDHA	ND		0.0200	0.0008	ug/L			EPA 533
375-22-4	PFBA	ND		0.0050	0.0008	ug/L			EPA 533
375-73-5	PFBS	ND		0.0030	0.0008	ug/L			EPA 533
39108-34-4	8:2FTS	ND		0.0050	0.0008	ug/L			EPA 533
335-76-2	PFDA	ND		0.0030	0.0008	ug/L			EPA 533
307-55-1	PFDoA	ND		0.0030	0.0008	ug/L			EPA 533
113507-82-7	PFEESA	ND		0.0030	0.0008	ug/L			EPA 533
375-92-8	PFHpS	ND		0.0030	0.0008	ug/L			EPA 533
375-85-9	PFHpA	ND		0.0030	0.0008	ug/L			EPA 533
757124-72-4	4:2FTS	ND		0.0030	0.0008	ug/L			EPA 533
355-46-4	PFHxS	ND		0.0030	0.0008	ug/L			EPA 533
307-24-4	PFHxA	ND		0.0030	0.0008	ug/L			EPA 533
377-73-1	PFMPA	ND		0.0040	0.0008	ug/L			EPA 533
863090-89-5	PFMBA	ND		0.0040	0.0008	ug/L			EPA 533
375-95-1	PFNA	ND		0.0040	0.0008	ug/L			EPA 533
27619-97-2	6:2FTS	ND		0.0050	0.0008	ug/L			EPA 533
1763-23-1	PFOS	ND		0.0040	0.0008	ug/L			EPA 533
335-67-1	PFOA	ND		0.0040	0.0008	ug/L			EPA 533
2706-90-3	PFPeA	ND		0.0030	0.0008	ug/L			EPA 533
2706-91-4	PFPeS	ND		0.0040	0.0008	ug/L			EPA 533
2058-94-8	PFUnA	ND		0.0020	0.0008	ug/L			EPA 533
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	<i>Surrogate: 13C2-4:2FTS IDA</i>	<i>113%</i>		<i>70-130</i>			<i>10/25/2023</i>	<i>MER</i>	<i>EPA 533</i>
	<i>Surrogate: 13C2-6:2FTS IDA</i>	<i>127%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C2-8:2FTS IDA</i>	<i>105%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C4-PFBA IDA</i>	<i>108%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C3-PFBS IDA</i>	<i>122%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C6-PFDA IDA</i>	<i>98%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C5-PFPeA IDA</i>	<i>112%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C8-PFOA IDA</i>	<i>102%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C8-PFOS IDA</i>	<i>111%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C9-PFNA IDA</i>	<i>99%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C2-PFDaA IDA</i>	<i>75%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C4-PFHpa IDA</i>	<i>110%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C3-HFPO-DA IDA</i>	<i>105%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C7-PFUnA IDA</i>	<i>95%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C5-PFHxA IDA</i>	<i>115%</i>		<i>70-130</i>					<i>EPA 533</i>
	<i>Surrogate: 13C3-PFHxS IDA</i>	<i>117%</i>		<i>70-130</i>					<i>EPA 533</i>

Tualatin Valley Water District 1850 SW 170th Ave Beaverton, OR 97006	Project: UCMR5 Project Number: UCMR5_12E Project Manager: Bill Richmond	Reported: 02/06/2024 12:39
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Sample Results
(Continued)

Sample Description: OR4100665-12086-EP002 FS	Comments:	Sampled: 10/16/2023 12:30:00PM
Lab Number: PDI0006-05 (Drinking Water)		Collected By: Bill Richmond

Analyzed By *Edge Analytical - Portland*

Metals by ICP

CAS	Analyte	Result	Qual	Quantitation Limit	Detection Limit	Units	Date Analyzed	Analyst Initials	Method
7439-93-2	Lithium	ND		9.00	0.200	ug/L	10/25/2023	BJ	EPA 200.7
<i>Surrogate: Scandium</i>		<i>97.8%</i>		<i>59.5-125.5</i>			<i>10/25/2023</i>	<i>BJ</i>	<i>EPA 200.7</i>

Perfluorinated Compounds

2355-31-9	NMeFOSAA	ND		0.00400	0.000870	ug/L	11/25/2023	NML	EPA 537.1
2991-50-6	NEtFOSAA	ND		0.00400	0.000500	ug/L			EPA 537.1
72629-94-8	PFTriDA	ND		0.00400	0.000560	ug/L			EPA 537.1
376-06-7	PFTA	ND		0.00400	0.000570	ug/L			EPA 537.1
<i>Surrogate: 13C2-PFOA-CCC</i>		<i>88.0%</i>		<i>69.5-140.5</i>			<i>11/25/2023</i>	<i>NML</i>	<i>EPA 537.1</i>
<i>Surrogate: 13C2-PFOA</i>		<i>10.4%</i>		<i>49.5-150.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C4-PFOS-CCC</i>		<i>89.0%</i>		<i>69.5-140.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C4-PFOS</i>		<i>3.47%</i>		<i>49.5-150.5</i>					<i>EPA 537.1</i>
<i>Surrogate: D3-NMeFOSAA-CCC</i>		<i>89.0%</i>		<i>69.5-140.5</i>					<i>EPA 537.1</i>
<i>Surrogate: D3-NMeFOSAA</i>		<i>2.55%</i>		<i>49.5-150.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C2-PFHxA</i>		<i>96.0%</i>		<i>69.5-130.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C3-HFPO-DA</i>		<i>97.0%</i>		<i>69.5-130.5</i>					<i>EPA 537.1</i>
<i>Surrogate: 13C2-PFDA</i>		<i>96.0%</i>		<i>69.5-130.5</i>					<i>EPA 537.1</i>
<i>Surrogate: d5-NEtFOSAA</i>		<i>99.0%</i>		<i>69.5-130.5</i>					<i>EPA 537.1</i>

Tualatin Valley Water District
 1850 SW 170th Ave
 Beaverton, OR 97006

Project: UCMR5
 Project Number: UCMR5_12E
 Project Manager: Bill Richmond

Reported:
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Quality Control



Metals by ICP

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDJ0038 - TR									
Blank (BDJ0038-BLK1)									
				Prepared: 10/23/23 Analyzed: 10/25/23					
Lithium	ND	9.00	ug/L						
<i>Surrogate: Scandium</i>		<i>49000</i>	<i>ug/L</i>	<i>50000</i>		97.9	<i>59.5-125.5</i>		
LCS (BDJ0038-BS1)									
				Prepared: 10/23/23 Analyzed: 10/25/23					
Lithium	505	9.00	ug/L	500		101	50-150		
<i>Surrogate: Scandium</i>		<i>45400</i>	<i>ug/L</i>	<i>50000</i>		90.8	<i>59.5-125.5</i>		
LCS (BDJ0038-BS2)									
				Prepared: 10/23/23 Analyzed: 10/25/23					
Lithium	1.17	9.00	ug/L	1.00		117	50-150		
<i>Surrogate: Scandium</i>		<i>47000</i>	<i>ug/L</i>	<i>50000</i>		94.1	<i>59.5-125.5</i>		
LCS (BDJ0038-BS3)									
				Prepared: 10/23/23 Analyzed: 10/25/23					
Lithium	52.0	9.00	ug/L	50.0		104	50-150		
<i>Surrogate: Scandium</i>		<i>46200</i>	<i>ug/L</i>	<i>50000</i>		92.5	<i>59.5-125.5</i>		
LCS (BDJ0038-BS4)									
				Prepared: 10/23/23 Analyzed: 10/25/23					
Lithium	990	9.00	ug/L	1000		99.0	50-150		
<i>Surrogate: Scandium</i>		<i>45400</i>	<i>ug/L</i>	<i>50000</i>		90.9	<i>59.5-125.5</i>		
LCS (BDJ0038-BS5)									
				Prepared: 10/23/23 Analyzed: 10/25/23					
Lithium	1.20	9.00	ug/L	1.00		120	50-150		
<i>Surrogate: Scandium</i>		<i>47600</i>	<i>ug/L</i>	<i>50000</i>		95.3	<i>59.5-125.5</i>		
Matrix Spike (BDJ0038-MS1)									
				Source: ADJ0007-01		Prepared: 10/23/23 Analyzed: 10/25/23			
Lithium	32.4	9.00	ug/L	25.0	3.40	116	70-130		
<i>Surrogate: Scandium</i>		<i>46800</i>	<i>ug/L</i>	<i>50000</i>		93.6	<i>59.5-125.5</i>		
Matrix Spike Dup (BDJ0038-MSD1)									
				Source: ADJ0007-01		Prepared: 10/23/23 Analyzed: 10/25/23			
Lithium	34.6	9.00	ug/L	25.0	3.40	125	70-130	6.58	20
<i>Surrogate: Scandium</i>		<i>46600</i>	<i>ug/L</i>	<i>50000</i>		93.1	<i>59.5-125.5</i>		

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Quality Control
 (Continued)



Metals by ICP (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDJ0040 - TR									
Blank (BDJ0040-BLK1)									
Lithium	ND	9.00	ug/L						
<i>Surrogate: Scandium</i>				47000	ug/L	50000	94.1	59.5-125.5	
Prepared: 10/24/23 Analyzed: 10/25/23									
LCS (BDJ0040-BS1)									
Lithium	515	9.00	ug/L	500		103	50-150		
<i>Surrogate: Scandium</i>				46500	ug/L	50000	93.0	59.5-125.5	
Prepared: 10/24/23 Analyzed: 10/25/23									
LCS (BDJ0040-BS2)									
Lithium	0.980	18.0	ug/L	1.00		98.0	50-150		
<i>Surrogate: Scandium</i>				101000	ug/L	100000	101	59.5-125.5	
Prepared: 10/24/23 Analyzed: 10/25/23									
LCS (BDJ0040-BS3)									
Lithium	52.5	18.0	ug/L	50.0		105	50-150		
<i>Surrogate: Scandium</i>				100000	ug/L	100000	100	59.5-125.5	
Prepared: 10/24/23 Analyzed: 10/25/23									
LCS (BDJ0040-BS4)									
Lithium	1070	9.00	ug/L	1000		107	50-150		
<i>Surrogate: Scandium</i>				49000	ug/L	50000	98.1	59.5-125.5	
Prepared: 10/24/23 Analyzed: 10/25/23									
LCS (BDJ0040-BS5)									
Lithium	1.14	9.00	ug/L	1.00		114	50-150		
<i>Surrogate: Scandium</i>				47600	ug/L	50000	95.2	59.5-125.5	
Prepared: 10/24/23 Analyzed: 10/25/23									
Matrix Spike (BDJ0040-MS1)									
Source: PDI0006-05									
Lithium	23.1	9.00	ug/L	25.0	0.950	88.6	70-130		
<i>Surrogate: Scandium</i>				49700	ug/L	50000	99.4	59.5-125.5	
Prepared: 10/24/23 Analyzed: 10/25/23									
Matrix Spike Dup (BDJ0040-MSD1)									
Source: PDI0006-05									
Lithium	24.8	9.00	ug/L	25.0	0.950	95.6	70-130	7.30	20
<i>Surrogate: Scandium</i>				49400	ug/L	50000	98.9	59.5-125.5	

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Quality Control
 (Continued)



Perfluorinated Compounds

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDK0005 - SPE									
Blank (BDK0005-BLK1)									
				Prepared: 10/30/23 Analyzed: 11/25/23					
NMeFOSAA	ND	0.00400	ug/L						
NEtFOSAA	ND	0.00400	ug/L						
PFTrDA	ND	0.00400	ug/L						
PFTA	ND	0.00400	ug/L						

Surrogate: 13C2-PFOA-CCC		96.0	ug/L	100		96.0	69.5-140.5		
Surrogate: 13C2-PFOA		113	ug/L	1000		11.3	49.5-150.5		
Surrogate: 13C4-PFOS-CCC		97.0	ug/L	100		97.0	69.5-140.5		
Surrogate: 13C4-PFOS		113	ug/L	3000		3.77	49.5-150.5		
Surrogate: D3-NMeFOSAA-CCC		96.0	ug/L	100		96.0	69.5-140.5		
Surrogate: D3-NMeFOSAA		110	ug/L	4000		2.75	49.5-150.5		
Surrogate: 13C2-PFHxA		99.0	ug/L	100		99.0	69.5-130.5		
Surrogate: 13C3-HFPO-DA		96.0	ug/L	100		96.0	69.5-130.5		
Surrogate: 13C2-PFDA		97.0	ug/L	100		97.0	69.5-130.5		
Surrogate: d5-NEtFOSAA		99.0	ug/L	100		99.0	69.5-130.5		

LCS (BDK0005-BS1)									
				Prepared: 10/30/23 Analyzed: 11/25/23					
NMeFOSAA	0.00439	0.00400	ug/L	0.00400		110	49.5-150.5		
NEtFOSAA	0.00445	0.00400	ug/L	0.00400		111	49.5-150.5		
PFTrDA	0.00442	0.00400	ug/L	0.00400		110	49.5-150.5		
PFTA	0.00436	0.00400	ug/L	0.00400		109	49.5-150.5		

Surrogate: 13C2-PFOA-CCC		90.0	ug/L	100		90.0	69.5-140.5		
Surrogate: 13C2-PFOA		106	ug/L	1000		10.6	49.5-150.5		
Surrogate: 13C4-PFOS-CCC		90.0	ug/L	100		90.0	69.5-140.5		
Surrogate: 13C4-PFOS		106	ug/L	3000		3.53	49.5-150.5		
Surrogate: D3-NMeFOSAA-CCC		90.0	ug/L	100		90.0	69.5-140.5		
Surrogate: D3-NMeFOSAA		103	ug/L	4000		2.58	49.5-150.5		
Surrogate: 13C2-PFHxA		100	ug/L	100		100	69.5-130.5		
Surrogate: 13C3-HFPO-DA		100	ug/L	100		100	69.5-130.5		
Surrogate: 13C2-PFDA		99.0	ug/L	100		99.0	69.5-130.5		
Surrogate: d5-NEtFOSAA		101	ug/L	100		101	69.5-130.5		

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 Project Manager: Bill Richmond

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Quality Control
 (Continued)



Perfluorinated Compounds (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDK0005 - SPE (Continued)

LCS (BDK0005-BS2)		Prepared: 10/30/23 Analyzed: 11/25/23							
NMeFOSAA	0.00399	0.00400	ug/L	0.00400		99.8	49.5-150.5		
NEtFOSAA	0.00447	0.00400	ug/L	0.00400		112	49.5-150.5		
PFTrDA	0.00433	0.00400	ug/L	0.00400		108	49.5-150.5		
PFTA	0.00420	0.00400	ug/L	0.00400		105	49.5-150.5		
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Surrogate: 13C2-PFOA-CCC		123	ug/L	100		123	69.5-140.5		
Surrogate: 13C2-PFOA		118	ug/L	100		118	49.5-150.5		
Surrogate: 13C4-PFOS-CCC		124	ug/L	100		124	69.5-140.5		
Surrogate: 13C4-PFOS		118	ug/L	100		118	49.5-150.5		
Surrogate: D3-NMeFOSAA-CCC		118	ug/L	100		118	49.5-140.5		
Surrogate: D3-NMeFOSAA		115	ug/L	100		115	49.5-150.5		
Surrogate: 13C2-PFHxA		103	ug/L	100		103	69.5-130.5		
Surrogate: 13C3-HFPO-DA		109	ug/L	100		109	69.5-130.5		
Surrogate: 13C2-PFDA		99.0	ug/L	100		99.0	69.5-130.5		
Surrogate: d5-NEtFOSAA		104	ug/L	100		104	69.5-130.5		

LCS (BDK0005-BS3)		Prepared: 10/30/23 Analyzed: 11/25/23							
NMeFOSAA	0.199	0.00400	ug/L	0.200		99.3	49.5-150.5		
NEtFOSAA	0.187	0.00400	ug/L	0.200		93.5	49.5-150.5		
PFTrDA	0.197	0.00400	ug/L	0.200		98.7	49.5-150.5		
PFTA	0.198	0.00400	ug/L	0.200		98.8	49.5-150.5		
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Surrogate: 13C2-PFOA-CCC		90.0	ug/L	100		90.0	69.5-140.5		
Surrogate: 13C2-PFOA		105	ug/L	100		105	49.5-150.5		
Surrogate: 13C4-PFOS-CCC		89.0	ug/L	100		89.0	69.5-140.5		
Surrogate: 13C4-PFOS		104	ug/L	100		104	49.5-150.5		
Surrogate: D3-NMeFOSAA-CCC		94.0	ug/L	100		94.0	69.5-140.5		
Surrogate: D3-NMeFOSAA		108	ug/L	100		108	49.5-150.5		
Surrogate: 13C2-PFHxA		98.0	ug/L	100		98.0	69.5-130.5		
Surrogate: 13C3-HFPO-DA		104	ug/L	100		104	69.5-130.5		
Surrogate: 13C2-PFDA		101	ug/L	100		101	69.5-130.5		
Surrogate: d5-NEtFOSAA		95.0	ug/L	100		95.0	69.5-130.5		

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Quality Control
 (Continued)



Perfluorinated Compounds (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDK0005 - SPE (Continued)

LCS (BDK0005-BS4)

Prepared: 10/30/23 Analyzed: 11/25/23

NMeFOSAA	0.0936	0.00400	ug/L	0.100		93.6	49.5-150.5		
NEtFOSAA	0.0928	0.00400	ug/L	0.100		92.8	49.5-150.5		
PFTrDA	0.0946	0.00400	ug/L	0.100		94.6	49.5-150.5		
PFTA	0.0922	0.00400	ug/L	0.100		92.2	49.5-150.5		
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Surrogate: 13C2-PFOA-CCC		103	ug/L	100		103	69.5-140.5		
Surrogate: 13C2-PFOA		99.0	ug/L	100		99.0	49.5-150.5		
Surrogate: 13C4-PFOS-CCC		104	ug/L	100		104	69.5-140.5		
Surrogate: 13C4-PFOS		99.0	ug/L	100		99.0	49.5-150.5		
Surrogate: D3-NMeFOSAA-CCC		102	ug/L	100		102	69.5-140.5		
Surrogate: D3-NMeFOSAA		99.0	ug/L	100		99.0	49.5-150.5		
Surrogate: 13C2-PFHxA		102	ug/L	100		102	69.5-130.5		
Surrogate: 13C3-HFPO-DA		103	ug/L	100		103	69.5-130.5		
Surrogate: 13C2-PFDA		103	ug/L	100		103	69.5-130.5		
Surrogate: d5-NEtFOSAA		103	ug/L	100		103	69.5-130.5		

Matrix Spike (BDK0005-MS1)

Source: PDI0006-01

Prepared: 10/30/23 Analyzed: 11/25/23

NMeFOSAA	0.0364	0.00400	ug/L	0.0400	ND	91.0	0-200		
NEtFOSAA	0.0372	0.00400	ug/L	0.0400	ND	93.0	0-200		
PFTrDA	0.0352	0.00400	ug/L	0.0400	ND	88.0	0-200		
PFTA	0.0347	0.00400	ug/L	0.0400	ND	86.8	0-200		
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Surrogate: 13C2-PFOA-CCC		93.0	ug/L	100		93.0	69.5-140.5		
Surrogate: 13C2-PFOA		109	ug/L	1000		10.9	49.5-150.5		
Surrogate: 13C4-PFOS-CCC		93.0	ug/L	100		93.0	69.5-140.5		
Surrogate: 13C4-PFOS		109	ug/L	3000		3.63	49.5-150.5		
Surrogate: D3-NMeFOSAA-CCC		92.0	ug/L	100		92.0	69.5-140.5		
Surrogate: D3-NMeFOSAA		106	ug/L	4000		2.65	49.5-150.5		
Surrogate: 13C2-PFHxA		92.0	ug/L	100		92.0	69.5-130.5		
Surrogate: 13C3-HFPO-DA		97.0	ug/L	100		97.0	69.5-130.5		
Surrogate: 13C2-PFDA		94.0	ug/L	100		94.0	69.5-130.5		
Surrogate: d5-NEtFOSAA		96.0	ug/L	100		96.0	69.5-130.5		

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Quality Control
(Continued)



Perfluorinated Compounds (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDK0005 - SPE (Continued)									
Matrix Spike Dup (BDK0005-MSD1)		Source: PDI0006-01			Prepared: 10/30/23 Analyzed: 11/25/23				
NMeFOSAA	0.0347	0.00400	ug/L	0.0400	ND	86.7	0-200	4.87	200
NEtFOSAA	0.0364	0.00400	ug/L	0.0400	ND	90.9	0-200	2.29	200
PFTrDA	0.0341	0.00400	ug/L	0.0400	ND	85.2	0-200	3.21	200
PFTA	0.0348	0.00400	ug/L	0.0400	ND	87.0	0-200	0.224	200
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Surrogate: 13C2-PFOA-CCC		95.0	ug/L	100		95.0	69.5-140.5		
Surrogate: 13C2-PFOA		112	ug/L	1000		11.2	49.5-150.5		
Surrogate: 13C4-PFOS-CCC		95.0	ug/L	100		95.0	69.5-140.5		
Surrogate: 13C4-PFOS		112	ug/L	3000		3.73	49.5-150.5		
Surrogate: D3-NMeFOSAA-CCC		97.0	ug/L	100		97.0	69.5-140.5		
Surrogate: D3-NMeFOSAA		111	ug/L	4000		2.78	49.5-150.5		
Surrogate: 13C2-PFHxA		94.0	ug/L	100		94.0	69.5-130.5		
Surrogate: 13C3-HFPO-DA		93.0	ug/L	100		93.0	69.5-130.5		
Surrogate: 13C2-PFDA		94.0	ug/L	100		94.0	69.5-130.5		
Surrogate: d5-NEtFOSAA		94.0	ug/L	100		94.0	69.5-130.5		

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Quality Control
 (Continued)



Semivolatiles

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDJ0834 - PFC 533

Blank (BDJ0834-BLK1)

Prepared: 10/24/23 Analyzed: 10/25/23

11CI-PF3OUdS	ND	0.0050	ug/L						
9CI-PF3ONS	ND	0.0020	ug/L						
ADONA	ND	0.0030	ug/L						
HFPO-DA	ND	0.0050	ug/L						
NFDHA	ND	0.0200	ug/L						
PFBA	ND	0.0050	ug/L						
PFBS	ND	0.0030	ug/L						
8:2FTS	ND	0.0050	ug/L						
PFDA	ND	0.0030	ug/L						
PFDaA	ND	0.0030	ug/L						
PFEESA	ND	0.0030	ug/L						
PFHpS	ND	0.0030	ug/L						
PFHpA	ND	0.0030	ug/L						
4:2FTS	ND	0.0030	ug/L						
PFHxS	ND	0.0030	ug/L						
PFHxA	ND	0.0030	ug/L						
PFMPA	ND	0.0040	ug/L						
PFMBA	ND	0.0040	ug/L						
PFNA	ND	0.0040	ug/L						
6:2FTS	ND	0.0050	ug/L						
PFOS	ND	0.0040	ug/L						
PFOA	ND	0.0040	ug/L						
PFPeA	ND	0.0030	ug/L						
PFPeS	ND	0.0040	ug/L						
PFUnA	ND	0.0020	ug/L						
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Surrogate: 13C2-4:2FTS IDA		0.0940	ug/L	0.0800		118	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0876	ug/L	0.0800		110	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0836	ug/L	0.0800		105	70-130		
Surrogate: 13C4-PFBA IDA		0.0206	ug/L	0.0200		103	70-130		
Surrogate: 13C3-PFBS IDA		0.0220	ug/L	0.0200		110	70-130		
Surrogate: 13C6-PFDA IDA		0.0215	ug/L	0.0200		108	70-130		
Surrogate: 13C5-PFPeA IDA		0.0172	ug/L	0.0200		86	70-130		
Surrogate: 13C8-PFOA IDA		0.0224	ug/L	0.0200		112	70-130		
Surrogate: 13C8-PFOS IDA		0.0207	ug/L	0.0200		104	70-130		
Surrogate: 13C9-PFNA IDA		0.0207	ug/L	0.0200		103	70-130		
Surrogate: 13C2-PFDaA IDA		0.0213	ug/L	0.0200		107	70-130		
Surrogate: 13C4-PFHpA IDA		0.0220	ug/L	0.0200		110	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0230	ug/L	0.0200		115	70-130		
Surrogate: 13C7-PFUnA IDA		0.0206	ug/L	0.0200		103	70-130		
Surrogate: 13C5-PFHxA IDA		0.0227	ug/L	0.0200		114	70-130		
Surrogate: 13C3-PFHxS IDA		0.0214	ug/L	0.0200		107	70-130		

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 Project Manager: Bill Richmond

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDJ0834 - PFC 533 (Continued)

LCS (BDJ0834-BS1)

Prepared: 10/24/23 Analyzed: 10/25/23

11CI-PF3OUdS	0.0027	0.0050	ug/L	0.00283		94	70-130		
9CI-PF3ONS	0.0026	0.0020	ug/L	0.00280		93	70-130		
ADONA	0.0025	0.0030	ug/L	0.00283		90	70-130		
HFPO-DA	0.0026	0.0050	ug/L	0.00300		87	70-130		
NFDHA	0.0030	0.0200	ug/L	0.00300		99	70-130		
PFBA	0.0028	0.0050	ug/L	0.00300		92	70-130		
PFBS	0.0026	0.0030	ug/L	0.00266		97	70-130		
8:2FTS	0.0026	0.0050	ug/L	0.00288		89	70-130		
PFDA	0.0033	0.0030	ug/L	0.00300		109	70-130		
PFDaA	0.0032	0.0030	ug/L	0.00300		107	70-130		
PFEESA	0.0026	0.0030	ug/L	0.00268		98	70-130		
PFHpS	0.0030	0.0030	ug/L	0.00286		105	70-130		
PFHpA	0.0028	0.0030	ug/L	0.00300		95	70-130		
4:2FTS	0.0027	0.0030	ug/L	0.00281		95	70-130		
PFHxS	0.0026	0.0030	ug/L	0.00274		95	70-130		
PFHxA	0.0030	0.0030	ug/L	0.00300		99	70-130		
PFMPA	0.0026	0.0040	ug/L	0.00300		87	70-130		
PFMBA	0.0030	0.0040	ug/L	0.00300		99	70-130		
PFNA	0.0031	0.0040	ug/L	0.00300		105	70-130		
6:2FTS	0.0028	0.0050	ug/L	0.00286		98	70-130		
PFOS	0.0030	0.0040	ug/L	0.00278		106	70-130		
PFOA	0.0031	0.0040	ug/L	0.00300		103	70-130		
PFPeA	0.0028	0.0030	ug/L	0.00300		94	70-130		
PFPeS	0.0026	0.0040	ug/L	0.00282		90	70-130		
PFUnA	0.0029	0.0020	ug/L	0.00300		96	70-130		
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Surrogate: 13C2-4:2FTS IDA		0.0752	ug/L	0.0800		94	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0872	ug/L	0.0800		109	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0732	ug/L	0.0800		92	70-130		
Surrogate: 13C4-PFBA IDA		0.0178	ug/L	0.0200		89	70-130		
Surrogate: 13C3-PFBS IDA		0.0198	ug/L	0.0200		99	70-130		
Surrogate: 13C6-PFDA IDA		0.0146	ug/L	0.0200		73	70-130		
Surrogate: 13C5-PFPeA IDA		0.0158	ug/L	0.0200		79	70-130		
Surrogate: 13C8-PFOA IDA		0.0175	ug/L	0.0200		88	70-130		
Surrogate: 13C8-PFOS IDA		0.0186	ug/L	0.0200		93	70-130		
Surrogate: 13C9-PFNA IDA		0.0154	ug/L	0.0200		77	70-130		
Surrogate: 13C2-PFDaA IDA		0.0138	ug/L	0.0200		69	70-130		
Surrogate: 13C4-PFHpA IDA		0.0169	ug/L	0.0200		84	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0174	ug/L	0.0200		87	70-130		
Surrogate: 13C7-PFUnA IDA		0.0158	ug/L	0.0200		79	70-130		
Surrogate: 13C5-PFHxA IDA		0.0157	ug/L	0.0200		78	70-130		
Surrogate: 13C3-PFHxS IDA		0.0192	ug/L	0.0200		96	70-130		

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDJ0834 - PFC 533 (Continued)

MRL Check (BDJ0834-MRL1)

Prepared: 10/24/23 Analyzed: 10/25/23

11CI-PF3OUdS	0.0009	0.0050	ug/L	0.00100		90	70-130		
9CI-PF3ONS	0.0009	0.0020	ug/L	0.00100		90	70-130		
ADONA	0.0009	0.0030	ug/L	0.00100		94	70-130		
HFPO-DA	0.0009	0.0050	ug/L	0.00100		89	70-130		
NFDHA	0.0009	0.0200	ug/L	0.00100		92	70-130		
PFBA	0.0010	0.0050	ug/L	0.00100		100	70-130		
PFBS	0.0009	0.0030	ug/L	0.00100		92	70-130		
8:2FTS	0.0009	0.0050	ug/L	0.00100		95	70-130		
PFDA	0.0010	0.0030	ug/L	0.00100		100	70-130		
PFDaA	ND	0.0030	ug/L	0.00100			70-130		
PFEESA	0.0009	0.0030	ug/L	0.00100		90	70-130		
PFHpS	0.0009	0.0030	ug/L	0.00100		91	70-130		
PFHpA	0.0008	0.0030	ug/L	0.00100		83	70-130		
4:2FTS	0.0010	0.0030	ug/L	0.00100		95	70-130		
PFHxS	0.0009	0.0030	ug/L	0.00100		92	70-130		
PFHxA	0.0009	0.0030	ug/L	0.00100		93	70-130		
PFMPA	0.0009	0.0040	ug/L	0.00100		87	70-130		
PFMBA	0.0009	0.0040	ug/L	0.00100		91	70-130		
PFNA	0.0010	0.0040	ug/L	0.00100		100	70-130		
6:2FTS	0.0009	0.0050	ug/L	0.00100		94	70-130		
PFOS	0.0009	0.0040	ug/L	0.00100		94	70-130		
PFOA	0.0011	0.0040	ug/L	0.00100		112	70-130		
PFPeA	0.0009	0.0030	ug/L	0.00100		92	70-130		
PFPeS	0.0009	0.0040	ug/L	0.00100		90	70-130		
PFUnA	0.0009	0.0020	ug/L	0.00100		87	70-130		
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Surrogate: 13C2-4:2FTS IDA		0.0988	ug/L	0.0800		124	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0996	ug/L	0.0800		125	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0884	ug/L	0.0800		111	70-130		
Surrogate: 13C4-PFBA IDA		0.0221	ug/L	0.0200		111	70-130		
Surrogate: 13C3-PFBS IDA		0.0239	ug/L	0.0200		119	70-130		
Surrogate: 13C6-PFDA IDA		0.0208	ug/L	0.0200		104	70-130		
Surrogate: 13C5-PFPeA IDA		0.0184	ug/L	0.0200		92	70-130		
Surrogate: 13C8-PFOA IDA		0.0224	ug/L	0.0200		112	70-130		
Surrogate: 13C8-PFOS IDA		0.0228	ug/L	0.0200		114	70-130		
Surrogate: 13C9-PFNA IDA		0.0215	ug/L	0.0200		108	70-130		
Surrogate: 13C2-PFDaA IDA		0.0208	ug/L	0.0200		104	70-130		
Surrogate: 13C4-PFHpA IDA		0.0228	ug/L	0.0200		114	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0234	ug/L	0.0200		117	70-130		
Surrogate: 13C7-PFUnA IDA		0.0201	ug/L	0.0200		101	70-130		
Surrogate: 13C5-PFHxA IDA		0.0234	ug/L	0.0200		117	70-130		
Surrogate: 13C3-PFHxS IDA		0.0234	ug/L	0.0200		117	70-130		

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDJ0834 - PFC 533 (Continued)

MRL Check (BDJ0834-MRL2)

Prepared: 10/24/23 Analyzed: 10/26/23

11CI-PF3OUdS	0.0408	0.0050	ug/L	0.0400		102	70-130		
9CI-PF3ONS	0.0408	0.0020	ug/L	0.0400		102	70-130		
ADONA	0.0387	0.0030	ug/L	0.0400		97	70-130		
HFPO-DA	0.0416	0.0050	ug/L	0.0400		104	70-130		
NFDHA	0.0436	0.0200	ug/L	0.0400		109	70-130		
PFBA	0.0404	0.0050	ug/L	0.0400		101	70-130		
PFBS	0.0400	0.0030	ug/L	0.0400		100	70-130		
8:2FTS	0.0395	0.0050	ug/L	0.0400		99	70-130		
PFDA	0.0444	0.0030	ug/L	0.0400		111	70-130		
PFDaA	0.0424	0.0030	ug/L	0.0400		106	70-130		
PFEESA	0.0398	0.0030	ug/L	0.0400		99	70-130		
PFHpS	0.0408	0.0030	ug/L	0.0400		102	70-130		
PFHpA	0.0346	0.0030	ug/L	0.0400		87	70-130		
4:2FTS	0.0404	0.0030	ug/L	0.0400		101	70-130		
PFHxS	0.0399	0.0030	ug/L	0.0400		100	70-130		
PFHxA	0.0399	0.0030	ug/L	0.0400		100	70-130		
PFMPA	0.0392	0.0040	ug/L	0.0400		98	70-130		
PFMBA	0.0432	0.0040	ug/L	0.0400		108	70-130		
PFNA	0.0374	0.0040	ug/L	0.0400		93	70-130		
6:2FTS	0.0404	0.0050	ug/L	0.0400		101	70-130		
PFOS	0.0404	0.0040	ug/L	0.0400		101	70-130		
PFOA	0.0412	0.0040	ug/L	0.0400		103	70-130		
PFPeA	0.0400	0.0030	ug/L	0.0400		100	70-130		
PFPeS	0.0392	0.0040	ug/L	0.0400		98	70-130		
PFUnA	0.0398	0.0020	ug/L	0.0400		100	70-130		
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Surrogate: 13C2-4:2FTS IDA		0.0780	ug/L	0.0800		98	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0812	ug/L	0.0800		102	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0760	ug/L	0.0800		95	70-130		
Surrogate: 13C4-PFBA IDA		0.0196	ug/L	0.0200		98	70-130		
Surrogate: 13C3-PFBS IDA		0.0194	ug/L	0.0200		97	70-130		
Surrogate: 13C6-PFDA IDA		0.0178	ug/L	0.0200		89	70-130		
Surrogate: 13C5-PFPeA IDA		0.0189	ug/L	0.0200		94	70-130		
Surrogate: 13C8-PFOA IDA		0.0185	ug/L	0.0200		93	70-130		
Surrogate: 13C8-PFOS IDA		0.0191	ug/L	0.0200		95	70-130		
Surrogate: 13C9-PFNA IDA		0.0188	ug/L	0.0200		94	70-130		
Surrogate: 13C2-PFDaA IDA		0.0188	ug/L	0.0200		94	70-130		
Surrogate: 13C4-PFHpA IDA		0.0201	ug/L	0.0200		100	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0190	ug/L	0.0200		95	70-130		
Surrogate: 13C7-PFUnA IDA		0.0194	ug/L	0.0200		97	70-130		
Surrogate: 13C5-PFHxA IDA		0.0192	ug/L	0.0200		96	70-130		
Surrogate: 13C3-PFHxS IDA		0.0194	ug/L	0.0200		97	70-130		

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDJ0834 - PFC 533 (Continued)									
MRL Check (BDJ0834-MRL3)									
				Prepared: 10/24/23 Analyzed: 10/26/23					
11CI-PF3OUdS	0.0592	0.0050	ug/L	0.0600		99	70-130		
9CI-PF3ONS	0.0592	0.0020	ug/L	0.0600		99	70-130		
ADONA	0.0636	0.0030	ug/L	0.0600		106	70-130		
HFPO-DA	0.0644	0.0050	ug/L	0.0600		107	70-130		
NFDHA	0.0644	0.0200	ug/L	0.0600		107	70-130		
PFBA	0.0600	0.0050	ug/L	0.0600		100	70-130		
PFBS	0.0596	0.0030	ug/L	0.0600		99	70-130		
8:2FTS	0.0592	0.0050	ug/L	0.0600		99	70-130		
PFDA	0.0624	0.0030	ug/L	0.0600		104	70-130		
PFDaA	0.0596	0.0030	ug/L	0.0600		99	70-130		
PFEESA	0.0596	0.0030	ug/L	0.0600		99	70-130		
PFHpS	0.0608	0.0030	ug/L	0.0600		101	70-130		
PFHpA	0.0576	0.0030	ug/L	0.0600		96	70-130		
4:2FTS	0.0588	0.0030	ug/L	0.0600		98	70-130		
PFHxS	0.0600	0.0030	ug/L	0.0600		100	70-130		
PFHxA	0.0664	0.0030	ug/L	0.0600		111	70-130		
PFMPA	0.0600	0.0040	ug/L	0.0600		100	70-130		
PFMBA	0.0628	0.0040	ug/L	0.0600		105	70-130		
PFNA	0.0540	0.0040	ug/L	0.0600		90	70-130		
6:2FTS	0.0580	0.0050	ug/L	0.0600		97	70-130		
PFOS	0.0600	0.0040	ug/L	0.0600		100	70-130		
PFOA	0.0612	0.0040	ug/L	0.0600		102	70-130		
PFPeA	0.0612	0.0030	ug/L	0.0600		102	70-130		
PFPeS	0.0588	0.0040	ug/L	0.0600		98	70-130		
PFUnA	0.0644	0.0020	ug/L	0.0600		107	70-130		
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Surrogate: 13C2-4:2FTS IDA		0.0764	ug/L	0.0800		96	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0808	ug/L	0.0800		101	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0744	ug/L	0.0800		93	70-130		
Surrogate: 13C4-PFBA IDA		0.0193	ug/L	0.0200		97	70-130		
Surrogate: 13C3-PFBS IDA		0.0193	ug/L	0.0200		97	70-130		
Surrogate: 13C6-PFDA IDA		0.0193	ug/L	0.0200		96	70-130		
Surrogate: 13C5-PFPeA IDA		0.0200	ug/L	0.0200		100	70-130		
Surrogate: 13C8-PFOA IDA		0.0185	ug/L	0.0200		92	70-130		
Surrogate: 13C8-PFOS IDA		0.0192	ug/L	0.0200		96	70-130		
Surrogate: 13C9-PFNA IDA		0.0197	ug/L	0.0200		99	70-130		
Surrogate: 13C2-PFDaA IDA		0.0159	ug/L	0.0200		79	70-130		
Surrogate: 13C4-PFHpA IDA		0.0189	ug/L	0.0200		94	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0174	ug/L	0.0200		87	70-130		
Surrogate: 13C7-PFUnA IDA		0.0189	ug/L	0.0200		94	70-130		
Surrogate: 13C5-PFHxA IDA		0.0176	ug/L	0.0200		88	70-130		
Surrogate: 13C3-PFHxS IDA		0.0194	ug/L	0.0200		97	70-130		

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDJ0834 - PFC 533 (Continued)									
Matrix Spike (BDJ0834-MS1)		Source: MDJ0700-01		Prepared: 10/24/23 Analyzed: 10/25/23					
11CI-PF3OUdS	0.0081	0.0050	ug/L	0.00949	ND	86	70-130		
9CI-PF3ONS	0.0081	0.0020	ug/L	0.00939	ND	87	70-130		
ADONA	0.0080	0.0030	ug/L	0.00949	ND	85	70-130		
HFPO-DA	0.0093	0.0050	ug/L	0.0101	ND	92	70-130		
NFDHA	0.0108	0.0200	ug/L	0.0101	ND	107	70-130		
PFBA	0.0082	0.0050	ug/L	0.0101	ND	82	70-130		
PFBS	0.0080	0.0030	ug/L	0.00893	ND	90	70-130		
8:2FTS	0.0080	0.0050	ug/L	0.00965	ND	83	70-130		
PFDA	0.0103	0.0030	ug/L	0.0101	ND	102	70-130		
PFDaA	0.0102	0.0030	ug/L	0.0101	ND	102	70-130		
PFEESA	0.0082	0.0030	ug/L	0.00897	ND	91	70-130		
PFHpS	0.0092	0.0030	ug/L	0.00959	ND	96	70-130		
PFHpA	0.0093	0.0030	ug/L	0.0101	ND	92	70-130		
4:2FTS	0.0080	0.0030	ug/L	0.00943	ND	85	70-130		
PFHxS	0.0080	0.0030	ug/L	0.00917	ND	87	70-130		
PFHxA	0.0088	0.0030	ug/L	0.0101	ND	87	70-130		
PFMPA	0.0082	0.0040	ug/L	0.0101	ND	81	70-130		
PFMBA	0.0107	0.0040	ug/L	0.0101	ND	107	70-130		
PFNA	0.0090	0.0040	ug/L	0.0101	ND	90	70-130		
6:2FTS	0.0090	0.0050	ug/L	0.00957	ND	94	70-130		
PFOS	0.0090	0.0040	ug/L	0.00933	ND	97	70-130		
PFOA	0.0098	0.0040	ug/L	0.0101	ND	97	70-130		
PFPeA	0.0090	0.0030	ug/L	0.0101	ND	90	70-130		
PFPeS	0.0080	0.0040	ug/L	0.00945	ND	85	70-130		
PFUnA	0.0097	0.0020	ug/L	0.0101	ND	96	70-130		
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Surrogate: 13C2-4:2FTS IDA		0.0856	ug/L	0.0804		107	70-130		
Surrogate: 13C2-6:2FTS IDA		0.103	ug/L	0.0804		128	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0840	ug/L	0.0804		105	70-130		
Surrogate: 13C4-PFBA IDA		0.0214	ug/L	0.0201		107	70-130		
Surrogate: 13C3-PFBS IDA		0.0233	ug/L	0.0201		116	70-130		
Surrogate: 13C6-PFDA IDA		0.0176	ug/L	0.0201		87	70-130		
Surrogate: 13C5-PFPeA IDA		0.0183	ug/L	0.0201		91	70-130		
Surrogate: 13C8-PFOA IDA		0.0234	ug/L	0.0201		116	70-130		
Surrogate: 13C8-PFOS IDA		0.0216	ug/L	0.0201		107	70-130		
Surrogate: 13C9-PFNA IDA		0.0217	ug/L	0.0201		108	70-130		
Surrogate: 13C2-PFDaA IDA		0.0198	ug/L	0.0201		98	70-130		
Surrogate: 13C4-PFHpA IDA		0.0224	ug/L	0.0201		111	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0242	ug/L	0.0201		120	70-130		
Surrogate: 13C7-PFUnA IDA		0.0194	ug/L	0.0201		96	70-130		
Surrogate: 13C5-PFHxA IDA		0.0234	ug/L	0.0201		116	70-130		
Surrogate: 13C3-PFHxS IDA		0.0222	ug/L	0.0201		111	70-130		

Tualatin Valley Water District
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Project: UCMR5
 Project Number: UCMR5_12E
 Project Manager: Bill Richmond

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDJ0834 - PFC 533 (Continued)									
Matrix Spike Dup (BDJ0834-MSD1)		Source: MDJ0700-01		Prepared: 10/24/23 Analyzed: 10/25/23					
11CI-PF3OUdS	0.0074	0.0050	ug/L	0.00901	ND	82	70-130	10	30
9CI-PF3ONS	0.0075	0.0020	ug/L	0.00892	ND	84	70-130	8	30
ADONA	0.0069	0.0030	ug/L	0.00901	ND	76	70-130	16	30
HFPO-DA	0.0085	0.0050	ug/L	0.00955	ND	89	70-130	9	30
NFDHA	0.0081	0.0200	ug/L	0.00955	ND	84	70-130	29	30
PFBA	0.0076	0.0050	ug/L	0.00955	ND	79	70-130	9	30
PFBS	0.0073	0.0030	ug/L	0.00848	ND	86	70-130	10	30
8:2FTS	0.0074	0.0050	ug/L	0.00916	ND	81	70-130	8	30
PFDA	0.0082	0.0030	ug/L	0.00955	ND	86	70-130	23	30
PFDaA	0.0089	0.0030	ug/L	0.00955	ND	94	70-130	13	30
PFEESA	0.0073	0.0030	ug/L	0.00851	ND	85	70-130	12	30
PFHpS	0.0084	0.0030	ug/L	0.00911	ND	92	70-130	10	30
PFHpA	0.0072	0.0030	ug/L	0.00955	ND	76	70-130	25	30
4:2FTS	0.0074	0.0030	ug/L	0.00895	ND	83	70-130	7	30
PFHxS	0.0073	0.0030	ug/L	0.00871	ND	84	70-130	9	30
PFHxA	0.0078	0.0030	ug/L	0.00955	ND	81	70-130	12	30
PFMPA	0.0074	0.0040	ug/L	0.00955	ND	78	70-130	9	30
PFMBA	0.0086	0.0040	ug/L	0.00955	ND	90	70-130	23	30
PFNA	0.0088	0.0040	ug/L	0.00955	ND	92	70-130	3	30
6:2FTS	0.0081	0.0050	ug/L	0.00909	ND	89	70-130	10	30
PFOS	0.0084	0.0040	ug/L	0.00886	ND	95	70-130	7	30
PFOA	0.0080	0.0040	ug/L	0.00955	ND	84	70-130	20	30
PFPeA	0.0081	0.0030	ug/L	0.00955	ND	84	70-130	11	30
PFPeS	0.0073	0.0040	ug/L	0.00897	ND	81	70-130	9	30
PFUnA	0.0092	0.0020	ug/L	0.00955	ND	96	70-130	5	30
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Surrogate: 13C2-4:2FTS IDA		0.0802	ug/L	0.0764		105	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0958	ug/L	0.0764		126	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0790	ug/L	0.0764		104	70-130		
Surrogate: 13C4-PFBA IDA		0.0206	ug/L	0.0191		108	70-130		
Surrogate: 13C3-PFBS IDA		0.0220	ug/L	0.0191		115	70-130		
Surrogate: 13C6-PFDA IDA		0.0171	ug/L	0.0191		90	70-130		
Surrogate: 13C5-PFPeA IDA		0.0179	ug/L	0.0191		94	70-130		
Surrogate: 13C8-PFOA IDA		0.0217	ug/L	0.0191		114	70-130		
Surrogate: 13C8-PFOS IDA		0.0203	ug/L	0.0191		106	70-130		
Surrogate: 13C9-PFNA IDA		0.0165	ug/L	0.0191		86	70-130		
Surrogate: 13C2-PFDaA IDA		0.0158	ug/L	0.0191		83	70-130		
Surrogate: 13C4-PFHpA IDA		0.0224	ug/L	0.0191		117	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0210	ug/L	0.0191		110	70-130		
Surrogate: 13C7-PFUnA IDA		0.0172	ug/L	0.0191		90	70-130		
Surrogate: 13C5-PFHxA IDA		0.0208	ug/L	0.0191		109	70-130		
Surrogate: 13C3-PFHxS IDA		0.0212	ug/L	0.0191		111	70-130		

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 Project Manager: Bill Richmond

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDJ1014 - PFC 533									
Blank (BDJ1014-BLK1)					Prepared: 10/28/23 Analyzed: 10/31/23				
11CI-PF3OUdS	ND	0.0050	ug/L						
9CI-PF3ONS	ND	0.0020	ug/L						
ADONA	ND	0.0030	ug/L						
HFPO-DA	ND	0.0050	ug/L						
NFDHA	ND	0.0200	ug/L						
PFBA	ND	0.0050	ug/L						
PFBS	ND	0.0030	ug/L						
8:2FTS	ND	0.0050	ug/L						
PFDA	ND	0.0030	ug/L						
PFDaA	ND	0.0030	ug/L						
PFEESA	ND	0.0030	ug/L						
PFHpS	ND	0.0030	ug/L						
PFHpA	ND	0.0030	ug/L						
4:2FTS	ND	0.0030	ug/L						
PFHxS	ND	0.0030	ug/L						
PFHxA	ND	0.0030	ug/L						
PFMPA	ND	0.0040	ug/L						
PFMBA	ND	0.0040	ug/L						
PFNA	ND	0.0040	ug/L						
6:2FTS	ND	0.0050	ug/L						
PFOS	ND	0.0040	ug/L						
PFOA	ND	0.0040	ug/L						
PFPeA	ND	0.0030	ug/L						
PFPeS	ND	0.0040	ug/L						
PFUnA	ND	0.0020	ug/L						
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Surrogate: 13C2-4:2FTS IDA		0.0968	ug/L	0.0800		121	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0868	ug/L	0.0800		109	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0772	ug/L	0.0800		97	70-130		
Surrogate: 13C4-PFBA IDA		0.0204	ug/L	0.0200		102	70-130		
Surrogate: 13C3-PFBS IDA		0.0202	ug/L	0.0200		101	70-130		
Surrogate: 13C6-PFDA IDA		0.0190	ug/L	0.0200		95	70-130		
Surrogate: 13C5-PFPeA IDA		0.0198	ug/L	0.0200		99	70-130		
Surrogate: 13C8-PFOA IDA		0.0215	ug/L	0.0200		107	70-130		
Surrogate: 13C8-PFOS IDA		0.0205	ug/L	0.0200		103	70-130		
Surrogate: 13C9-PFNA IDA		0.0193	ug/L	0.0200		96	70-130		
Surrogate: 13C2-PFDaA IDA		0.0206	ug/L	0.0200		103	70-130		
Surrogate: 13C4-PFHpA IDA		0.0225	ug/L	0.0200		112	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0224	ug/L	0.0200		112	70-130		
Surrogate: 13C7-PFUnA IDA		0.0185	ug/L	0.0200		92	70-130		
Surrogate: 13C5-PFHxA IDA		0.0210	ug/L	0.0200		105	70-130		
Surrogate: 13C3-PFHxS IDA		0.0209	ug/L	0.0200		105	70-130		

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDJ1014 - PFC 533 (Continued)									
LCS (BDJ1014-BS1)									
				Prepared: 10/28/23 Analyzed: 10/31/23					
11CI-PF3OUdS	0.0026	0.0050	ug/L	0.00283		92	70-130		
9CI-PF3ONS	0.0026	0.0020	ug/L	0.00280		94	70-130		
ADONA	0.0029	0.0030	ug/L	0.00283		103	70-130		
HFPO-DA	0.0030	0.0050	ug/L	0.00300		100	70-130		
NFDHA	0.0033	0.0200	ug/L	0.00300		112	70-130		
PFBA	0.0028	0.0050	ug/L	0.00300		94	70-130		
PFBS	0.0025	0.0030	ug/L	0.00266		95	70-130		
8:2FTS	0.0026	0.0050	ug/L	0.00288		91	70-130		
PFDA	0.0030	0.0030	ug/L	0.00300		100	70-130		
PFDaA	0.0030	0.0030	ug/L	0.00300		99	70-130		
PFEESA	0.0027	0.0030	ug/L	0.00268		100	70-130		
PFHpS	0.0029	0.0030	ug/L	0.00286		103	70-130		
PFHpA	0.0031	0.0030	ug/L	0.00300		104	70-130		
4:2FTS	0.0027	0.0030	ug/L	0.00281		96	70-130		
PFHxS	0.0026	0.0030	ug/L	0.00274		94	70-130		
PFHxA	0.0028	0.0030	ug/L	0.00300		94	70-130		
PFMPA	0.0027	0.0040	ug/L	0.00300		88	70-130		
PFMBA	0.0033	0.0040	ug/L	0.00300		110	70-130		
PFNA	0.0028	0.0040	ug/L	0.00300		94	70-130		
6:2FTS	0.0028	0.0050	ug/L	0.00286		98	70-130		
PFOS	0.0030	0.0040	ug/L	0.00278		106	70-130		
PFOA	0.0033	0.0040	ug/L	0.00300		110	70-130		
PFPeA	0.0030	0.0030	ug/L	0.00300		99	70-130		
PFPeS	0.0025	0.0040	ug/L	0.00282		88	70-130		
PFUnA	0.0027	0.0020	ug/L	0.00300		89	70-130		
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Surrogate: 13C2-4:2FTS IDA		0.0760	ug/L	0.0800		95	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0976	ug/L	0.0800		122	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0708	ug/L	0.0800		89	70-130		
Surrogate: 13C4-PFBA IDA		0.0178	ug/L	0.0200		89	70-130		
Surrogate: 13C3-PFBS IDA		0.0189	ug/L	0.0200		95	70-130		
Surrogate: 13C6-PFDA IDA		0.0154	ug/L	0.0200		77	70-130		
Surrogate: 13C5-PFPeA IDA		0.0176	ug/L	0.0200		88	70-130		
Surrogate: 13C8-PFOA IDA		0.0192	ug/L	0.0200		96	70-130		
Surrogate: 13C8-PFOS IDA		0.0186	ug/L	0.0200		93	70-130		
Surrogate: 13C9-PFNA IDA		0.0188	ug/L	0.0200		94	70-130		
Surrogate: 13C2-PFDaA IDA		0.0137	ug/L	0.0200		68	70-130		
Surrogate: 13C4-PFHpA IDA		0.0178	ug/L	0.0200		89	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0192	ug/L	0.0200		96	70-130		
Surrogate: 13C7-PFUnA IDA		0.0152	ug/L	0.0200		76	70-130		
Surrogate: 13C5-PFHxA IDA		0.0166	ug/L	0.0200		83	70-130		
Surrogate: 13C3-PFHxS IDA		0.0191	ug/L	0.0200		96	70-130		

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDJ1014 - PFC 533 (Continued)

MRL Check (BDJ1014-MRL1)

Prepared: 10/28/23 Analyzed: 10/31/23

11CI-PF3OUdS	0.0009	0.0050	ug/L	0.00100		90	70-130		
9CI-PF3ONS	0.0009	0.0020	ug/L	0.00100		93	70-130		
ADONA	0.0009	0.0030	ug/L	0.00100		92	70-130		
HFPO-DA	0.0009	0.0050	ug/L	0.00100		88	70-130		
NFDHA	0.0010	0.0200	ug/L	0.00100		100	70-130		
PFBA	0.0010	0.0050	ug/L	0.00100		101	70-130		
PFBS	0.0009	0.0030	ug/L	0.00100		90	70-130		
8:2FTS	0.0009	0.0050	ug/L	0.00100		94	70-130		
PFDA	0.0009	0.0030	ug/L	0.00100		85	70-130		
PFDaA	0.0010	0.0030	ug/L	0.00100		99	70-130		
PFEESA	0.0009	0.0030	ug/L	0.00100		90	70-130		
PFHpS	0.0009	0.0030	ug/L	0.00100		93	70-130		
PFHpA	0.0009	0.0030	ug/L	0.00100		88	70-130		
4:2FTS	0.0009	0.0030	ug/L	0.00100		94	70-130		
PFHxS	0.0009	0.0030	ug/L	0.00100		94	70-130		
PFHxA	0.0008	0.0030	ug/L	0.00100		83	70-130		
PFMPA	0.0009	0.0040	ug/L	0.00100		94	70-130		
PFMBA	0.0009	0.0040	ug/L	0.00100		92	70-130		
PFNA	0.0011	0.0040	ug/L	0.00100		111	70-130		
6:2FTS	0.0009	0.0050	ug/L	0.00100		89	70-130		
PFOS	0.0009	0.0040	ug/L	0.00100		94	70-130		
PFOA	0.0009	0.0040	ug/L	0.00100		94	70-130		
PFPeA	0.0010	0.0030	ug/L	0.00100		96	70-130		
PFPeS	0.0009	0.0040	ug/L	0.00100		88	70-130		
PFUnA	0.0010	0.0020	ug/L	0.00100		96	70-130		
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Surrogate: 13C2-4:2FTS IDA		0.104	ug/L	0.0800		130	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0996	ug/L	0.0800		125	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0860	ug/L	0.0800		108	70-130		
Surrogate: 13C4-PFBA IDA		0.0223	ug/L	0.0200		112	70-130		
Surrogate: 13C3-PFBS IDA		0.0228	ug/L	0.0200		114	70-130		
Surrogate: 13C6-PFDA IDA		0.0200	ug/L	0.0200		100	70-130		
Surrogate: 13C5-PFPeA IDA		0.0224	ug/L	0.0200		112	70-130		
Surrogate: 13C8-PFOA IDA		0.0227	ug/L	0.0200		113	70-130		
Surrogate: 13C8-PFOS IDA		0.0226	ug/L	0.0200		113	70-130		
Surrogate: 13C9-PFNA IDA		0.0195	ug/L	0.0200		97	70-130		
Surrogate: 13C2-PFDaA IDA		0.0207	ug/L	0.0200		103	70-130		
Surrogate: 13C4-PFHpA IDA		0.0231	ug/L	0.0200		116	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0228	ug/L	0.0200		114	70-130		
Surrogate: 13C7-PFUnA IDA		0.0232	ug/L	0.0200		116	70-130		
Surrogate: 13C5-PFHxA IDA		0.0214	ug/L	0.0200		107	70-130		
Surrogate: 13C3-PFHxS IDA		0.0233	ug/L	0.0200		117	70-130		

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDJ1014 - PFC 533 (Continued)

MRL Check (BDJ1014-MRL2)

Prepared: 10/28/23 Analyzed: 10/31/23

11CI-PF3OUdS	0.0424	0.0050	ug/L	0.0400		106	70-130		
9CI-PF3ONS	0.0416	0.0020	ug/L	0.0400		104	70-130		
ADONA	0.0393	0.0030	ug/L	0.0400		98	70-130		
HFPO-DA	0.0395	0.0050	ug/L	0.0400		99	70-130		
NFDHA	0.0383	0.0200	ug/L	0.0400		96	70-130		
PFBA	0.0408	0.0050	ug/L	0.0400		102	70-130		
PFBS	0.0399	0.0030	ug/L	0.0400		100	70-130		
8:2FTS	0.0412	0.0050	ug/L	0.0400		103	70-130		
PFDA	0.0452	0.0030	ug/L	0.0400		113	70-130		
PFDaA	0.0362	0.0030	ug/L	0.0400		91	70-130		
PFEESA	0.0408	0.0030	ug/L	0.0400		102	70-130		
PFHpS	0.0408	0.0030	ug/L	0.0400		102	70-130		
PFHpA	0.0397	0.0030	ug/L	0.0400		99	70-130		
4:2FTS	0.0408	0.0030	ug/L	0.0400		102	70-130		
PFHxS	0.0397	0.0030	ug/L	0.0400		99	70-130		
PFHxA	0.0366	0.0030	ug/L	0.0400		92	70-130		
PFMPA	0.0416	0.0040	ug/L	0.0400		104	70-130		
PFMBA	0.0428	0.0040	ug/L	0.0400		107	70-130		
PFNA	0.0412	0.0040	ug/L	0.0400		103	70-130		
6:2FTS	0.0394	0.0050	ug/L	0.0400		99	70-130		
PFOS	0.0404	0.0040	ug/L	0.0400		101	70-130		
PFOA	0.0372	0.0040	ug/L	0.0400		93	70-130		
PFPeA	0.0432	0.0030	ug/L	0.0400		108	70-130		
PFPeS	0.0396	0.0040	ug/L	0.0400		99	70-130		
PFUnA	0.0365	0.0020	ug/L	0.0400		91	70-130		
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Surrogate: 13C2-4:2FTS IDA		0.0832	ug/L	0.0800		104	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0836	ug/L	0.0800		105	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0688	ug/L	0.0800		86	70-130		
Surrogate: 13C4-PFBA IDA		0.0191	ug/L	0.0200		95	70-130		
Surrogate: 13C3-PFBS IDA		0.0192	ug/L	0.0200		96	70-130		
Surrogate: 13C6-PFDA IDA		0.0210	ug/L	0.0200		105	70-130		
Surrogate: 13C5-PFPeA IDA		0.0199	ug/L	0.0200		99	70-130		
Surrogate: 13C8-PFOA IDA		0.0209	ug/L	0.0200		105	70-130		
Surrogate: 13C8-PFOS IDA		0.0191	ug/L	0.0200		95	70-130		
Surrogate: 13C9-PFNA IDA		0.0194	ug/L	0.0200		97	70-130		
Surrogate: 13C2-PFDaA IDA		0.0198	ug/L	0.0200		99	70-130		
Surrogate: 13C4-PFHpA IDA		0.0219	ug/L	0.0200		109	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0210	ug/L	0.0200		105	70-130		
Surrogate: 13C7-PFUnA IDA		0.0222	ug/L	0.0200		111	70-130		
Surrogate: 13C5-PFHxA IDA		0.0217	ug/L	0.0200		108	70-130		
Surrogate: 13C3-PFHxS IDA		0.0196	ug/L	0.0200		98	70-130		

Tualatin Valley Water District
 1850 SW 170th Ave
 Beaverton, OR 97006

Project: UCMR5
 Project Number: UCMR5_12E
 Project Manager: Bill Richmond

Reported:
 02/06/2024 12:39

Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDJ1014 - PFC 533 (Continued)

MRL Check (BDJ1014-MRL3)

Prepared: 10/28/23 Analyzed: 10/31/23

11CI-PF3OUdS	0.0608	0.0050	ug/L	0.0600		101	70-130		
9CI-PF3ONS	0.0616	0.0020	ug/L	0.0600		103	70-130		
ADONA	0.0520	0.0030	ug/L	0.0600		87	70-130		
HFPO-DA	0.0604	0.0050	ug/L	0.0600		101	70-130		
NFDHA	0.0616	0.0200	ug/L	0.0600		103	70-130		
PFBA	0.0592	0.0050	ug/L	0.0600		99	70-130		
PFBS	0.0592	0.0030	ug/L	0.0600		99	70-130		
8:2FTS	0.0604	0.0050	ug/L	0.0600		101	70-130		
PFDA	0.0708	0.0030	ug/L	0.0600		118	70-130		
PFDaA	0.0552	0.0030	ug/L	0.0600		92	70-130		
PFEESA	0.0596	0.0030	ug/L	0.0600		99	70-130		
PFHpS	0.0596	0.0030	ug/L	0.0600		99	70-130		
PFHpA	0.0624	0.0030	ug/L	0.0600		104	70-130		
4:2FTS	0.0604	0.0030	ug/L	0.0600		101	70-130		
PFHxS	0.0596	0.0030	ug/L	0.0600		99	70-130		
PFHxA	0.0544	0.0030	ug/L	0.0600		91	70-130		
PFMPA	0.0592	0.0040	ug/L	0.0600		99	70-130		
PFMBA	0.0604	0.0040	ug/L	0.0600		101	70-130		
PFNA	0.0628	0.0040	ug/L	0.0600		105	70-130		
6:2FTS	0.0604	0.0050	ug/L	0.0600		101	70-130		
PFOS	0.0604	0.0040	ug/L	0.0600		101	70-130		
PFOA	0.0572	0.0040	ug/L	0.0600		95	70-130		
PFPeA	0.0624	0.0030	ug/L	0.0600		104	70-130		
PFPeS	0.0596	0.0040	ug/L	0.0600		99	70-130		
PFUnA	0.0572	0.0020	ug/L	0.0600		95	70-130		
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Surrogate: 13C2-4:2FTS IDA		0.0796	ug/L	0.0800		100	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0796	ug/L	0.0800		100	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0676	ug/L	0.0800		85	70-130		
Surrogate: 13C4-PFBA IDA		0.0196	ug/L	0.0200		98	70-130		
Surrogate: 13C3-PFBS IDA		0.0198	ug/L	0.0200		99	70-130		
Surrogate: 13C6-PFDA IDA		0.0166	ug/L	0.0200		83	70-130		
Surrogate: 13C5-PFPeA IDA		0.0202	ug/L	0.0200		101	70-130		
Surrogate: 13C8-PFOA IDA		0.0193	ug/L	0.0200		96	70-130		
Surrogate: 13C8-PFOS IDA		0.0194	ug/L	0.0200		97	70-130		
Surrogate: 13C9-PFNA IDA		0.0182	ug/L	0.0200		91	70-130		
Surrogate: 13C2-PFDaA IDA		0.0187	ug/L	0.0200		94	70-130		
Surrogate: 13C4-PFHpA IDA		0.0213	ug/L	0.0200		106	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0197	ug/L	0.0200		99	70-130		
Surrogate: 13C7-PFUnA IDA		0.0182	ug/L	0.0200		91	70-130		
Surrogate: 13C5-PFHxA IDA		0.0196	ug/L	0.0200		98	70-130		
Surrogate: 13C3-PFHxS IDA		0.0195	ug/L	0.0200		98	70-130		

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDJ1014 - PFC 533 (Continued)

Matrix Spike (BDJ1014-MS1)

Source: MDJ0859-01

Prepared: 10/28/23 Analyzed: 10/31/23

11CI-PF3OUdS	0.0083	0.0050	ug/L	0.00881	ND	94	70-130		
9CI-PF3ONS	0.0096	0.0020	ug/L	0.00872	ND	110	70-130		
ADONA	0.0093	0.0030	ug/L	0.00881	ND	106	70-130		
HFPO-DA	0.0104	0.0050	ug/L	0.00933	ND	112	70-130		
NFDHA	0.0113	0.0200	ug/L	0.00933	ND	121	70-130		
PFBA	0.0091	0.0050	ug/L	0.00933	ND	98	70-130		
PFBS	0.0090	0.0030	ug/L	0.00829	ND	109	70-130		
8:2FTS	0.0093	0.0050	ug/L	0.00896	ND	104	70-130		
PFDA	0.0122	0.0030	ug/L	0.00933	ND	130	70-130		
PFDaA	0.0087	0.0030	ug/L	0.00933	ND	94	70-130		
PFEESA	0.0095	0.0030	ug/L	0.00832	ND	114	70-130		
PFHpS	0.0108	0.0030	ug/L	0.00890	ND	121	70-130		
PFHpA	0.0100	0.0030	ug/L	0.00933	ND	107	70-130		
4:2FTS	0.0093	0.0030	ug/L	0.00875	ND	106	70-130		
PFHxS	0.0093	0.0030	ug/L	0.00851	ND	109	70-130		
PFHxA	0.0098	0.0030	ug/L	0.00933	ND	105	70-130		
PFMPA	0.0094	0.0040	ug/L	0.00933	ND	101	70-130		
PFMBA	0.0122	0.0040	ug/L	0.00933	ND	130	70-130		
PFNA	0.0102	0.0040	ug/L	0.00933	ND	110	70-130		
6:2FTS	0.0099	0.0050	ug/L	0.00888	ND	112	70-130		
PFOS	0.0105	0.0040	ug/L	0.00866	ND	121	70-130		
PFOA	0.0110	0.0040	ug/L	0.00933	ND	118	70-130		
PFPeA	0.0103	0.0030	ug/L	0.00933	ND	110	70-130		
PFPeS	0.0090	0.0040	ug/L	0.00877	ND	103	70-130		
PFUnA	0.0104	0.0020	ug/L	0.00933	ND	112	70-130		
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Surrogate: 13C2-4:2FTS IDA		0.0702	ug/L	0.0747		94	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0799	ug/L	0.0747		107	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0579	ug/L	0.0747		78	70-130		
Surrogate: 13C4-PFBA IDA		0.0163	ug/L	0.0187		87	70-130		
Surrogate: 13C3-PFBS IDA		0.0175	ug/L	0.0187		94	70-130		
Surrogate: 13C6-PFDA IDA		0.0130	ug/L	0.0187		70	70-130		
Surrogate: 13C5-PFPeA IDA		0.0170	ug/L	0.0187		91	70-130		
Surrogate: 13C8-PFOA IDA		0.0160	ug/L	0.0187		86	70-130		
Surrogate: 13C8-PFOS IDA		0.0163	ug/L	0.0187		87	70-130		
Surrogate: 13C9-PFNA IDA		0.0142	ug/L	0.0187		76	70-130		
Surrogate: 13C2-PFDaA IDA		0.0122	ug/L	0.0187		66	70-130		
Surrogate: 13C4-PFHpA IDA		0.0175	ug/L	0.0187		94	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0167	ug/L	0.0187		89	70-130		
Surrogate: 13C7-PFUnA IDA		0.0128	ug/L	0.0187		68	70-130		
Surrogate: 13C5-PFHxA IDA		0.0159	ug/L	0.0187		85	70-130		
Surrogate: 13C3-PFHxS IDA		0.0172	ug/L	0.0187		92	70-130		

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Quality Control
 (Continued)



Semivolatiles (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDJ1014 - PFC 533 (Continued)									
Matrix Spike Dup (BDJ1014-MSD1)		Source: MDJ0859-01		Prepared: 10/28/23 Analyzed: 10/31/23					
11CI-PF3OUdS	0.0085	0.0050	ug/L	0.00871	ND	97	70-130	2	30
9CI-PF3ONS	0.0085	0.0020	ug/L	0.00862	ND	99	70-130	12	30
ADONA	0.0079	0.0030	ug/L	0.00871	ND	90	70-130	17	30
HFPO-DA	0.0094	0.0050	ug/L	0.00923	ND	102	70-130	10	30
NFDHA	0.0094	0.0200	ug/L	0.00923	ND	102	70-130	18	30
PFBA	0.0084	0.0050	ug/L	0.00923	ND	91	70-130	8	30
PFBS	0.0082	0.0030	ug/L	0.00820	ND	100	70-130	9	30
8:2FTS	0.0082	0.0050	ug/L	0.00886	ND	92	70-130	13	30
PFDA	0.0116	0.0030	ug/L	0.00923	ND	126	70-130	5	30
PFDaA	0.0090	0.0030	ug/L	0.00923	ND	98	70-130	4	30
PFEESA	0.0083	0.0030	ug/L	0.00823	ND	101	70-130	13	30
PFHpS	0.0096	0.0030	ug/L	0.00881	ND	109	70-130	12	30
PFHpA	0.0092	0.0030	ug/L	0.00923	ND	99	70-130	8	30
4:2FTS	0.0083	0.0030	ug/L	0.00866	ND	96	70-130	11	30
PFHxS	0.0083	0.0030	ug/L	0.00842	ND	98	70-130	11	30
PFHxA	0.0088	0.0030	ug/L	0.00923	ND	95	70-130	11	30
PFMPA	0.0090	0.0040	ug/L	0.00923	ND	98	70-130	5	30
PFMBA	0.0106	0.0040	ug/L	0.00923	ND	115	70-130	13	30
PFNA	0.0090	0.0040	ug/L	0.00923	ND	98	70-130	12	30
6:2FTS	0.0092	0.0050	ug/L	0.00879	ND	104	70-130	8	30
PFOS	0.0093	0.0040	ug/L	0.00857	ND	109	70-130	12	30
PFOA	0.0087	0.0040	ug/L	0.00923	ND	94	70-130	24	30
PFPeA	0.0099	0.0030	ug/L	0.00923	ND	107	70-130	4	30
PFPeS	0.0082	0.0040	ug/L	0.00868	ND	94	70-130	10	30
PFUnA	0.0095	0.0020	ug/L	0.00923	ND	102	70-130	10	30
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Surrogate: 13C2-4:2FTS IDA		0.0735	ug/L	0.0739		99	70-130		
Surrogate: 13C2-6:2FTS IDA		0.0820	ug/L	0.0739		111	70-130		
Surrogate: 13C2-8:2FTS IDA		0.0654	ug/L	0.0739		89	70-130		
Surrogate: 13C4-PFBA IDA		0.0178	ug/L	0.0185		96	70-130		
Surrogate: 13C3-PFBS IDA		0.0188	ug/L	0.0185		102	70-130		
Surrogate: 13C6-PFDA IDA		0.0134	ug/L	0.0185		73	70-130		
Surrogate: 13C5-PFPeA IDA		0.0185	ug/L	0.0185		100	70-130		
Surrogate: 13C8-PFOA IDA		0.0195	ug/L	0.0185		106	70-130		
Surrogate: 13C8-PFOS IDA		0.0181	ug/L	0.0185		98	70-130		
Surrogate: 13C9-PFNA IDA		0.0157	ug/L	0.0185		85	70-130		
Surrogate: 13C2-PFDaA IDA		0.0159	ug/L	0.0185		86	70-130		
Surrogate: 13C4-PFHpA IDA		0.0184	ug/L	0.0185		100	70-130		
Surrogate: 13C3-HFPO-DA IDA		0.0171	ug/L	0.0185		93	70-130		
Surrogate: 13C7-PFUnA IDA		0.0160	ug/L	0.0185		87	70-130		
Surrogate: 13C5-PFHxA IDA		0.0163	ug/L	0.0185		88	70-130		
Surrogate: 13C3-PFHxS IDA		0.0187	ug/L	0.0185		101	70-130		

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Certified Analyses included in this Report



Analyte	CAS #	Certifications
<i>EPA 533 in Drinking Water</i>		
11CI-PF3OUdS	763051-92-9	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
9CI-PF3ONS	756426-58-1	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
ADONA	919005-14-4	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
HFPO-DA	13252-13-6	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
NFDHA	151772-58-6	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFBA	375-22-4	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFBS	375-73-5	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
8:2FTS	39108-34-4	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFDA	335-76-2	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFDoA	307-55-1	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFEESA	113507-82-7	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFHpS	375-92-8	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFHpA	375-85-9	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
4:2FTS	757124-72-4	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFHxS	355-46-4	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFHxA	307-24-4	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFMPA	377-73-1	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFMBA	863090-89-5	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFNA	375-95-1	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
6:2FTS	27619-97-2	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFOS	1763-23-1	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFOA	335-67-1	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFPeA	2706-90-3	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFPeS	2706-91-4	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS
PFUnA	2058-94-8	DOE WA,NMED,ORELAP,MT DPHHS,AZ DHS

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 1850 SW 170th Ave
 Beaverton, OR 97006

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 02/06/2024 12:39

List of Certifications
 {@Cont'd}

Anatek Labs Inc, Moscow ID



Code	Description	Number	Expires
IDHW-Mic	Idaho - Micro	ID00013	12/31/2024
W NM ED	New Mexico Environment Department	WA00169	06/30/2024
W FLDOH	Florida Department of Health (NELAC)	E871099	06/30/2024
IDHW	Idaho	ID00013	06/30/2024
DOE WA	Washington Department of Ecology	C595	03/31/2024
ORELAP	Oregon	ID200001	06/30/2024
NV DCNR	Nevada	ID00013	07/31/2024
AZ DHS	Arizona Department of Health Services	AZ0701	12/06/2023
NMED	New Mexico	ID00013	06/30/2024
W ANAB ISO 17	ANAB ISO 17025/AOAC Food Micro	AT-2934	12/16/2024
MT DPHHS	Montana	CERT0028	01/01/2024
W WA DOE	Washington Department of Ecology	C585	11/15/2023
W IDHW	Idaho	WA00169	12/31/2023
W MT DPHHS	Montana	CERT0095	01/01/2024
W NV DCNR	Nevada	WA00169	07/31/2024
W ORELAP	Oregon	4169-001	04/10/2024
Region 8	EPA Region 8	ID00013	06/30/2024
FLDOH	Florida Department of Health (NELAC)	E87893	06/30/2024

List of Certifications
 {@Cont'd}

Edge Analytical - Portland



Code	Description	Number	Expires
GADNR	Georgia Department of Natural Resources	C-037	04/02/2024
HIDOH	State of Hawaii Department of Health	-	04/02/2024
ID_DHW	Idaho Department of Health and Welfare	WA00097	01/31/2024
MADEP	Commonwealth of Massachusetts DEP	M-WA097	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0150	09/30/2024
NJDEP	New Jersey Department of Environmental Protection	WA013	06/30/2024
EPA_A	EPA	WA00097	02/01/2050
NYDOH	New York Department of Health	11965	04/01/2024
AZDHS	Arizona Department of Health Services	AZ0772	12/15/2024
WADOE_A	Washington State Department of Ecology	C567	01/18/2024
ORELAP_A	Oregon Environmenatal Lab Accreditation Program	4072	04/02/2024
EPA_V	EPA	OR01004	
PADEP	Pennsylvania Department of Environmental Protection	68-04603	04/30/2024
MTPHHS	Montana Department of Public Health and Human Services	CERT0104	01/01/2024
ORELAP_V	Oregon Environmenatal Lab Accreditation Program	OR100009	04/04/2024
ORELAP_P	Oregon Environmenatal Lab Accreditation Program	OR100063	05/28/2024
EPA_P	EPA	OR01042	
WADOH_M	Washington State Department of Health - Drinking Water	164	12/05/2024
ISO_PJLA_M	Perry Johnson Laboratory Accreditation, Inc.	77932	05/31/2024
WADOE_M	Washington State Department of Ecology	C874	12/05/2024
WADOH_A	Washington State Department of Health - Drinking Water	046	01/18/2024
EPA_D	EPA	OR01046	

<p>Tualatin Valley Water District 1850 SW 170th Ave Beaverton, OR 97006</p>	<p>Project: UCMR5 Project Number: UCMR5_12E Project Manager: Bill Richmond</p>	<p>Reported: 02/06/2024 12:39</p>
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NYDOH_P	New York Department of Health	11991	04/01/2024
EPA_M	EPA	WA01214	
NH_DES	New Hampshire Department of Environmental Services	2246	04/11/2004
ORELAP_D	Oregon Environmenatal Lab Accreditation Program	4075	11/01/2024

Tualatin Valley Water District
1850 SW 170th Ave
Beaverton, OR 97006

Project: UCMR5
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Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.



ANALYTICAL

UCMR ANALYSIS REQUEST

Client & Billing Information

TUA01

Report To: Tualatin Valley Water District	Bill To: Tualatin Valley Water District
Ship Address: 1850 SW 170th Ave	Address: 1850 SW 170th Ave
City: Beaverton St: OR Zip: 97006	City: Beaverton St: OR Zip: 97006
Phone: 503-313-5581 Fax:	Phone: 503-313-5581 email: bill.richmond@tvwd.org
Email: bill.richmond@tvwd.org	P.O.#
Contact: Bill Richmond	
Project Name: UCMR5	

INSTRUCTIONS

1. Use one line per sample location.
2. Check off analysis to be performed for each sample location.
3. Enter number of containers per sample location.

- ◆ Samples to be collected at Entry Point to distribution
- ◆ Follow collection instruction provided
- ◆ Collect early in the week (Monday - Wednesday)
- ◆ Ship Overnight delivery the day samples are collected
- ◆ Sampling Events: Groundwater - 2, Surface water - 4

SYSTEM ID	FACILITY #	SAMPLE POINT ID	DATE	TIME	UCMR5 200.7	UCMR5 EPA 533	UCMR5 EPA 533 Field Blank	UCMR5 EPA 537.1	UCMR5 EPA 537.1 Field Blank	Sampling Event	Number of Containers	Sampler
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			B-11
1	OR4100665	664	3	ASC	10-16-23	1000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
2	OR4100665	664	3	ASR	10-16-23	1000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
3	OR4100665	11988	EP001	PWB	10-16-23	1315	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
4	OR4100665	11988	EP001	PWB	10-16-23	1315	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	
5	OR4100665	12086	EP002	SWC	10-16-23	1230	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
6	OR4100665	12086	EP002	SWC	10-16-23	1230	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	

Relinquished By	Date	Time	Received By	Date	Time
Bill Richmond	10-16-23	1410	[Signature]	10-16-23	1415

Evidence of Cooling

Sample Temp 15.8 °C Satisfactory

Samples Received Intact / In Hold Time

Appropriate Containers

	YES	NO	N/A
Evidence of Cooling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Temp 15.8 °C Satisfactory	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples Received Intact / In Hold Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate Containers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>