

Work Orders: 4A05003

Report Date: 2/14/2024

Project: City of Paramount

Received Date: 1/8/2024

Turnaround Time: Normal

Phones: (562) 275-4252

Fax: (562) 921-6101

P.O. #:

Billing Code:

Attn: Charlene King

Client: Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

ELAP-CA #1132 • EPA-UCMR #CA00211 • LACSD #10143

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Charlene King,

Enclosed are the results of analyses for samples received 1/08/24 with the Chain-of-Custody document. The samples were received in good condition, at 4.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Kenneth C. Oda For Valerie I. Ayo
Project Manager



Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Well 14, RegID: CA1910105_016_016	Allan Goldberg	4A05003-01	Water	01/08/24 10:55	
Well 14 Field Blank, RegID: CA1910105_016_016	Allan Goldberg	4A05003-02	Water	01/08/24 00:00	
Well 15 Pre, RegID: CA1910105_025_025	Allan Goldberg	4A05003-03	Water	01/08/24 11:20	
Well 15 Pre Field Blank, RegID: CA1910105_025_025	Allan Goldberg	4A05003-04	Water	01/08/24 00:00	
Well 15 Effluent, RegID: CA1910105_027_027	Allan Goldberg	4A05003-05	Water	01/08/24 11:30	
Well 15 Effluent Field Blank, RegID: CA1910105_027_027	Allan Goldberg	4A05003-06	Water	01/08/24 00:00	
Travel Blank	Allan Goldberg	4A05003-07	Water	01/08/24 00:00	

Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
EPA 533 in Water			
PFBA	375-22-4	✓	
PFMPA	377-73-1	✓	
PFPeA	2706-90-3	✓	
PFBS	375-73-5	✓	
PFMBA	863090-89-5	✓	
PFEESA	113507-82-7	✓	
NFDHA	151772-58-6	✓	
4:2 FTS	757124-72-4	✓	
PFHxA	307-24-4	✓	
PFPeS	2706-91-4	✓	
HFPO-DA	13252-13-6	✓	
PFHpA	375-85-9	✓	
PFHxS	355-46-4	✓	
ADONA	919005-14-4	✓	
6:2 FTS	27619-97-2	✓	
PFOA	335-67-1	✓	
PFHpS	375-92-8	✓	
PFNA	375-95-1	✓	
PFOS	1763-23-1	✓	
9CI-PF3ONS	756426-58-1	✓	
8:2 FTS	39108-34-4	✓	
PFDA	335-76-2	✓	
PFOA	2058-94-8	✓	
11CI-PF3OUdS	763051-92-9	✓	
PFDoA	307-55-1	✓	
SRL 524M-TCP in Water			
1,2,3-Trichloropropane	96-18-4	✓	

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Lakewood, CA 90712

Project Number: City of Paramount

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02/14/2024 10:43

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Sample Results

Sample: Well 14, RegID: CA1910105_016_016

Sampled: 01/08/24 10:55 by Allan Goldberg

4A05003-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
1,4-Dioxane by SPE/GCMS SIM, EPA Method 522						
Method: EPA 522		Instr: GCMS20				
Batch ID: W4A0644	Preparation: EPA 522/SPE	Prepared: 01/09/24 07:59		Analyst: mld		
1,4-Dioxane	1.1	0.070	ug/l	1	01/09/24	
<i>Surrogate(s)</i>						
1,4-Dioxane-d8	104% Conc: 10.1	70-130			01/09/24	
Metals by EPA 200 Series Methods						
Method: EPA 200.8		Instr: ICPMS04				
Batch ID: W4A0805	Preparation: EPA 200.2	Prepared: 01/10/24 15:41		Analyst: dak		
Manganese, Total	17	1.0	ug/l	1	01/11/24	
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS						
Method: EPA 533		Instr: LCMS06				
Batch ID: W4A0986	Preparation: EPA 533/SPE	Prepared: 01/11/24 12:52		Analyst: JNA		
11CI-PF3OUdS	ND	1.7	ng/l	1	01/17/24	
4:2 FTS	ND	1.7	ng/l	1	01/17/24	
6:2 FTS	ND	1.7	ng/l	1	01/17/24	
8:2 FTS	ND	1.7	ng/l	1	01/17/24	
9CI-PF3ONS	ND	1.7	ng/l	1	01/17/24	
ADONA	ND	1.7	ng/l	1	01/17/24	
HFPO-DA	ND	1.7	ng/l	1	01/17/24	
NFDHA	ND	1.7	ng/l	1	01/17/24	
PFBA	ND	1.7	ng/l	1	01/17/24	
PFBS	ND	1.7	ng/l	1	01/17/24	
PFDA	ND	1.7	ng/l	1	01/17/24	
PFDoA	ND	1.7	ng/l	1	01/17/24	
PFEESA	ND	1.7	ng/l	1	01/17/24	
PFHpA	ND	1.7	ng/l	1	01/17/24	
PFHpS	ND	1.7	ng/l	1	01/17/24	
PFHxA	ND	1.7	ng/l	1	01/17/24	
PFHxS	ND	1.7	ng/l	1	01/17/24	
PFMBA	ND	1.7	ng/l	1	01/17/24	
PFMPA	ND	1.7	ng/l	1	01/17/24	
PFNA	ND	1.7	ng/l	1	01/17/24	
PFOA	ND	1.7	ng/l	1	01/17/24	
PFOS	3.9	1.7	ng/l	1	01/17/24	
PFPeA	ND	1.7	ng/l	1	01/17/24	
PFPeS	ND	1.7	ng/l	1	01/17/24	
PFUnA	ND	1.7	ng/l	1	01/17/24	

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount
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Reported:
02/14/2024 10:43

Sample Results

(Continued)

Sample: Well 14, RegID: CA1910105_016_016

Sampled: 01/08/24 10:55 by Allan Goldberg

4A05003-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Method: EPA 533

Instr: LCMS06

Batch ID: W4A0986

Preparation: EPA 533/SPE

Prepared: 01/11/24 12:52

Analyst: JNA

Surrogate(s)

13C2-4:2 FTS	96%	Conc: 33.2	50-200		01/17/24	
13C2-6:2 FTS	132%	Conc: 45.5	50-200		01/17/24	
13C2-8:2 FTS	116%	Conc: 40.1	50-200		01/17/24	
13C2-PFDoA	86%	Conc: 7.44	50-200		01/17/24	
13C3-PFBS	109%	Conc: 9.41	50-200		01/17/24	
13C3-PFHxS	107%	Conc: 9.20	50-200		01/17/24	
13C4-PFBA	101%	Conc: 8.69	50-200		01/17/24	
13C4-PFHpA	93%	Conc: 8.00	50-200		01/17/24	
13C5-PFHxA	98%	Conc: 8.45	50-200		01/17/24	
13C5-PFPeA	98%	Conc: 8.46	50-200		01/17/24	
13C6-PFDA	79%	Conc: 6.83	50-200		01/17/24	
13C7-PFUnA	81%	Conc: 6.96	50-200		01/17/24	
13C8-PFOA	86%	Conc: 7.45	50-200		01/17/24	
13C8-PFOS	108%	Conc: 9.32	50-200		01/17/24	
13C9-PFNA	82%	Conc: 7.04	50-200		01/17/24	
HFPO-DA-13C3	87%	Conc: 7.49	50-200		01/17/24	

Sample Results

(Continued)

Sample: Well 14, RegID: CA1910105_016_016

Sampled: 01/08/24 10:55 by Allan Goldberg

4A05003-01RE1 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Volatile Organic Compounds by P&T and GC/MS

Method: EPA 524.2

Instr: GCMS14

Batch ID: W4A1220

Preparation: EPA 5030B

Prepared: 01/16/24 11:31

Analyst: JAN

Methylene chloride	ND	0.50	ug/l	1	01/17/24	
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Surrogate(s)

1,2-Dichlorobenzene-d4	100%	Conc: 50.2	70-130		01/17/24	
4-Bromofluorobenzene	109%	Conc: 54.3	70-130		01/17/24	

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Sample Results

(Continued)

Sample: Well 14 Field Blank, RegID: CA1910105_016_016

Sampled: 01/08/24 0:00 by Allan Goldberg

4A05003-02 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS						
Method: EPA 533		Instr: LCMS06				
Batch ID: W4A0986		Preparation: EPA 533/SPE		Prepared: 01/11/24 12:52		Analyst: JNA
11CI-PF3OUdS	ND	1.6	ng/l	1	01/17/24	
4:2 FTS	ND	1.6	ng/l	1	01/17/24	
6:2 FTS	ND	1.6	ng/l	1	01/17/24	
8:2 FTS	ND	1.6	ng/l	1	01/17/24	
9CI-PF3ONS	ND	1.6	ng/l	1	01/17/24	
ADONA	ND	1.6	ng/l	1	01/17/24	
HFPO-DA	ND	1.6	ng/l	1	01/17/24	
NFDHA	ND	1.6	ng/l	1	01/17/24	
PFBA	ND	1.6	ng/l	1	01/17/24	
PFBS	ND	1.6	ng/l	1	01/17/24	
PFDA	ND	1.6	ng/l	1	01/17/24	
PFDoA	ND	1.6	ng/l	1	01/17/24	
PFEESA	ND	1.6	ng/l	1	01/17/24	
PFHpA	ND	1.6	ng/l	1	01/17/24	
PFHpS	ND	1.6	ng/l	1	01/17/24	
PFHxA	ND	1.6	ng/l	1	01/17/24	
PFHxS	ND	1.6	ng/l	1	01/17/24	
PFMBA	ND	1.6	ng/l	1	01/17/24	
PFMPA	ND	1.6	ng/l	1	01/17/24	
PFNA	ND	1.6	ng/l	1	01/17/24	
PFOA	ND	1.6	ng/l	1	01/17/24	
PFOS	ND	1.6	ng/l	1	01/17/24	
PFPeA	ND	1.6	ng/l	1	01/17/24	
PFPeS	ND	1.6	ng/l	1	01/17/24	
PFOUnA	ND	1.6	ng/l	1	01/17/24	

Surrogate(s)

13C2-4:2 FTS	104%	Conc: 33.9	50-200	01/17/24
13C2-6:2 FTS	142%	Conc: 46.4	50-200	01/17/24
13C2-8:2 FTS	117%	Conc: 38.4	50-200	01/17/24
13C2-PFDoA	98%	Conc: 7.98	50-200	01/17/24
13C3-PFBS	114%	Conc: 9.32	50-200	01/17/24
13C3-PFHxS	108%	Conc: 8.83	50-200	01/17/24
13C4-PFBA	99%	Conc: 8.10	50-200	01/17/24
13C4-PFHpA	99%	Conc: 8.10	50-200	01/17/24

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Sample Results

(Continued)

Sample: Well 14 Field Blank, RegID: CA1910105_016_016

Sampled: 01/08/24 0:00 by Allan Goldberg

4A05003-02 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)						
Method: EPA 533			Instr: LCMS06			
Batch ID: W4A0986		Preparation: EPA 533/SPE		Prepared: 01/11/24 12:52		Analyst: JNA
13C5-PFHxA	96% Conc: 7.81	50-200			01/17/24	
13C5-PFPeA	100% Conc: 8.21	50-200			01/17/24	
13C6-PFDA	98% Conc: 8.02	50-200			01/17/24	
13C7-PFUnA	97% Conc: 7.93	50-200			01/17/24	
13C8-PFOA	98% Conc: 8.04	50-200			01/17/24	
13C8-PFOS	105% Conc: 8.59	50-200			01/17/24	
13C9-PFNA	101% Conc: 8.23	50-200			01/17/24	
HFPO-DA-13C3	77% Conc: 6.30	50-200			01/17/24	

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount
Project Manager: Charlene King

Reported:
02/14/2024 10:43

Sample Results

(Continued)

Sample: Well 15 Pre, RegID: CA1910105_025_025

Sampled: 01/08/24 11:20 by Allan Goldberg

4A05003-03 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Method: SRL 524M-TCP		Instr: GCMS12				
Batch ID: W4A1020	Preparation: EPA 5030B	Prepared: 01/12/24 07:16				Analyst: ADM
1,2,3-Trichloropropane	ND	0.0050	ug/l	1	01/13/24	

Metals by EPA 200 Series Methods

Method: EPA 200.8		Instr: ICPMS04				
Batch ID: W4A0805	Preparation: EPA 200.2	Prepared: 01/10/24 15:41				Analyst: dak
Arsenic, Total	7.1	0.50	ug/l	1	01/11/24	
Manganese, Total	42	1.0	ug/l	1	01/11/24	

Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS

Method: EPA 533		Instr: LCMS06				
Batch ID: W4A0986	Preparation: EPA 533/SPE	Prepared: 01/11/24 12:52				Analyst: JNA
11CI-PF3OUdS	ND	1.6	ng/l	1	01/17/24	
4:2 FTS	ND	1.6	ng/l	1	01/17/24	
6:2 FTS	ND	1.6	ng/l	1	01/17/24	
8:2 FTS	ND	1.6	ng/l	1	01/17/24	
9CI-PF3ONS	ND	1.6	ng/l	1	01/17/24	
ADONA	ND	1.6	ng/l	1	01/17/24	
HFPO-DA	ND	1.6	ng/l	1	01/17/24	
NFDHA	ND	1.6	ng/l	1	01/17/24	
PFBA	ND	1.6	ng/l	1	01/17/24	
PFBS	ND	1.6	ng/l	1	01/17/24	
PFDA	ND	1.6	ng/l	1	01/17/24	
PFDoA	ND	1.6	ng/l	1	01/17/24	
PFEESA	ND	1.6	ng/l	1	01/17/24	
PFHpA	ND	1.6	ng/l	1	01/17/24	
PFHpS	ND	1.6	ng/l	1	01/17/24	
PFHxA	ND	1.6	ng/l	1	01/17/24	
PFHxS	ND	1.6	ng/l	1	01/17/24	
PFMBA	ND	1.6	ng/l	1	01/17/24	
PFMPA	ND	1.6	ng/l	1	01/17/24	
PFNA	ND	1.6	ng/l	1	01/17/24	
PFOA	ND	1.6	ng/l	1	01/17/24	
PFOS	ND	1.6	ng/l	1	01/17/24	
PFPeA	ND	1.6	ng/l	1	01/17/24	
PFPeS	ND	1.6	ng/l	1	01/17/24	
PFOUnA	ND	1.6	ng/l	1	01/17/24	

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Sample Results

(Continued)

Sample: Well 15 Pre, RegID: CA1910105_025_025

Sampled: 01/08/24 11:20 by Allan Goldberg

4A05003-03 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Method: EPA 533

Instr: LCMS06

Batch ID: W4A0986

Preparation: EPA 533/SPE

Prepared: 01/11/24 12:52

Analyst: JNA

Surrogate(s)

13C2-4:2 FTS	106%	Conc: 34.8	50-200		01/17/24	
13C2-6:2 FTS	136%	Conc: 44.4	50-200		01/17/24	
13C2-8:2 FTS	116%	Conc: 38.1	50-200		01/17/24	
13C2-PFDoA	98%	Conc: 8.02	50-200		01/17/24	
13C3-PFBS	112%	Conc: 9.17	50-200		01/17/24	
13C3-PFHxS	111%	Conc: 9.10	50-200		01/17/24	
13C4-PFBA	100%	Conc: 8.20	50-200		01/17/24	
13C4-PFHpA	94%	Conc: 7.71	50-200		01/17/24	
13C5-PFHxA	95%	Conc: 7.77	50-200		01/17/24	
13C5-PFPeA	100%	Conc: 8.21	50-200		01/17/24	
13C6-PFDA	93%	Conc: 7.65	50-200		01/17/24	
13C7-PFUnA	101%	Conc: 8.27	50-200		01/17/24	
13C8-PFOA	94%	Conc: 7.70	50-200		01/17/24	
13C8-PFOS	107%	Conc: 8.75	50-200		01/17/24	
13C9-PFNA	96%	Conc: 7.83	50-200		01/17/24	
HFPO-DA-13C3	75%	Conc: 6.19	50-200		01/17/24	

Radiological Parameters by APHA/EPA Methods

Method: EPA 200.8

Instr: ICPMS04

Batch ID: W4A0805

Preparation: EPA 200.2

Prepared: 01/10/24 15:41

Analyst: dak

Uranium Rad	0.91	0.13	pCi/ L	1	01/11/24	
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Method: SM 7110C

Instr: RAD02

Batch ID: W4A1115

Preparation: _NONE (RADIOCHEM)

Prepared: 01/13/24 11:11

Analyst: ela

Gross Alpha	1.73		pCi/L	1	01/19/24	
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Counting Uncertainty: 0.242

MDA: 0.054

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

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Project Manager: Charlene King

Sample Results

(Continued)

Sample: Well 15 Pre Field Blank, RegID: CA1910105_025_025

Sampled: 01/08/24 0:00 by Allan Goldberg

4A05003-04 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS

Method: EPA 533

Instr: LCMS06

Batch ID: W4A0986

Preparation: EPA 533/SPE

Prepared: 01/11/24 12:52

Analyst: JNA

11CI-PF3OUdS	ND	1.6	ng/l	1	01/17/24	
4:2 FTS	ND	1.6	ng/l	1	01/17/24	
6:2 FTS	ND	1.6	ng/l	1	01/17/24	
8:2 FTS	ND	1.6	ng/l	1	01/17/24	
9CI-PF3ONS	ND	1.6	ng/l	1	01/17/24	
ADONA	ND	1.6	ng/l	1	01/17/24	
HFPO-DA	ND	1.6	ng/l	1	01/17/24	
NFDHA	ND	1.6	ng/l	1	01/17/24	
PFBA	ND	1.6	ng/l	1	01/17/24	
PFBS	ND	1.6	ng/l	1	01/17/24	
PFDA	ND	1.6	ng/l	1	01/17/24	
PFDoA	ND	1.6	ng/l	1	01/17/24	
PFEESA	ND	1.6	ng/l	1	01/17/24	
PFHpA	ND	1.6	ng/l	1	01/17/24	
PFHpS	ND	1.6	ng/l	1	01/17/24	
PFHxA	ND	1.6	ng/l	1	01/17/24	
PFHxS	ND	1.6	ng/l	1	01/17/24	
PFMBA	ND	1.6	ng/l	1	01/17/24	
PFMPA	ND	1.6	ng/l	1	01/17/24	
PFNA	ND	1.6	ng/l	1	01/17/24	
PFOA	ND	1.6	ng/l	1	01/17/24	
PFOS	ND	1.6	ng/l	1	01/17/24	
PFPeA	ND	1.6	ng/l	1	01/17/24	
PFPeS	ND	1.6	ng/l	1	01/17/24	
PFUnA	ND	1.6	ng/l	1	01/17/24	

Surrogate(s)

13C2-4:2 FTS	99%	Conc: 32.6	50-200	01/17/24
13C2-6:2 FTS	127%	Conc: 41.7	50-200	01/17/24
13C2-8:2 FTS	115%	Conc: 37.7	50-200	01/17/24
13C2-PFDoA	100%	Conc: 8.23	50-200	01/17/24
13C3-PFBS	108%	Conc: 8.85	50-200	01/17/24
13C3-PFHxS	108%	Conc: 8.88	50-200	01/17/24
13C4-PFBA	104%	Conc: 8.52	50-200	01/17/24
13C4-PFHpA	97%	Conc: 7.97	50-200	01/17/24

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Sample Results

(Continued)

Sample: Well 15 Pre Field Blank, RegID: CA1910105_025_025

Sampled: 01/08/24 0:00 by Allan Goldberg

4A05003-04 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)						
Method: EPA 533			Instr: LCMS06			
Batch ID: W4A0986		Preparation: EPA 533/SPE		Prepared: 01/11/24 12:52		Analyst: JNA
13C5-PFHxA	100% Conc: 8.20	50-200			01/17/24	
13C5-PFPeA	104% Conc: 8.57	50-200			01/17/24	
13C6-PFDA	101% Conc: 8.34	50-200			01/17/24	
13C7-PFUnA	102% Conc: 8.39	50-200			01/17/24	
13C8-PFOA	100% Conc: 8.24	50-200			01/17/24	
13C8-PFOS	105% Conc: 8.61	50-200			01/17/24	
13C9-PFNA	101% Conc: 8.34	50-200			01/17/24	
HFPO-DA-13C3	74% Conc: 6.09	50-200			01/17/24	

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Sample Results

(Continued)

Sample: Well 15 Effluent, RegID: CA1910105_027_027

Sampled: 01/08/24 11:30 by Allan Goldberg

4A05003-05 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Method: SRL 524M-TCP

Instr: GCMS12

Batch ID: W4A1020

Preparation: EPA 5030B

Prepared: 01/12/24 07:16

Analyst: ADM

1,2,3-Trichloropropane	ND	0.0050	ug/l	1	01/13/24	
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Metals by EPA 200 Series Methods

Method: EPA 200.8

Instr: ICPMS04

Batch ID: W4A0805

Preparation: EPA 200.2

Prepared: 01/10/24 15:41

Analyst: dak

Arsenic, Total	6.9	0.50	ug/l	1	01/11/24	
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Manganese, Total	ND	1.0	ug/l	1	01/11/24	
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Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS

Method: EPA 533

Instr: LCMS06

Batch ID: W4A0986

Preparation: EPA 533/SPE

Prepared: 01/11/24 12:52

Analyst: JNA

11CI-PF3OUdS	ND	1.8	ng/l	1	01/17/24	
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4:2 FTS	ND	1.8	ng/l	1	01/17/24	
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6:2 FTS	ND	1.8	ng/l	1	01/17/24	
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8:2 FTS	ND	1.8	ng/l	1	01/17/24	
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9CI-PF3ONS	ND	1.8	ng/l	1	01/17/24	
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ADONA	ND	1.8	ng/l	1	01/17/24	
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HFPO-DA	ND	1.8	ng/l	1	01/17/24	
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NFDHA	ND	1.8	ng/l	1	01/17/24	
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PFBA	ND	1.8	ng/l	1	01/17/24	
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PFBS	ND	1.8	ng/l	1	01/17/24	
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PFDA	ND	1.8	ng/l	1	01/17/24	
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PFDoA	ND	1.8	ng/l	1	01/17/24	
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PFEESA	ND	1.8	ng/l	1	01/17/24	
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PFHpA	ND	1.8	ng/l	1	01/17/24	
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PFHpS	ND	1.8	ng/l	1	01/17/24	
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PFHxA	ND	1.8	ng/l	1	01/17/24	
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PFHxS	ND	1.8	ng/l	1	01/17/24	
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PFMBA	ND	1.8	ng/l	1	01/17/24	
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PFMPA	ND	1.8	ng/l	1	01/17/24	
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PFNA	ND	1.8	ng/l	1	01/17/24	
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PFOA	ND	1.8	ng/l	1	01/17/24	
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PFOS	ND	1.8	ng/l	1	01/17/24	
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PFPeA	ND	1.8	ng/l	1	01/17/24	
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PFPeS	ND	1.8	ng/l	1	01/17/24	
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PFOA	ND	1.8	ng/l	1	01/17/24	
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Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Sample Results

(Continued)

Sample: Well 15 Effluent, RegID: CA1910105_027_027

Sampled: 01/08/24 11:30 by Allan Goldberg

4A05003-05 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Method: EPA 533

Instr: LCMS06

Batch ID: W4A0986

Preparation: EPA 533/SPE

Prepared: 01/11/24 12:52

Analyst: JNA

Surrogate(s)

13C2-4:2 FTS	106%	Conc: 37.4	50-200		01/17/24	
13C2-6:2 FTS	139%	Conc: 48.8	50-200		01/17/24	
13C2-8:2 FTS	122%	Conc: 42.9	50-200		01/17/24	
13C2-PFDoA	103%	Conc: 9.05	50-200		01/17/24	
13C3-PFBS	112%	Conc: 9.82	50-200		01/17/24	
13C3-PFHxS	114%	Conc: 10.1	50-200		01/17/24	
13C4-PFBA	102%	Conc: 8.95	50-200		01/17/24	
13C4-PFHpA	99%	Conc: 8.70	50-200		01/17/24	
13C5-PFHxA	96%	Conc: 8.47	50-200		01/17/24	
13C5-PFPeA	99%	Conc: 8.74	50-200		01/17/24	
13C6-PFDA	103%	Conc: 9.05	50-200		01/17/24	
13C7-PFUnA	101%	Conc: 8.85	50-200		01/17/24	
13C8-PFOA	100%	Conc: 8.80	50-200		01/17/24	
13C8-PFOS	119%	Conc: 10.5	50-200		01/17/24	
13C9-PFNA	100%	Conc: 8.82	50-200		01/17/24	
HFPO-DA-13C3	77%	Conc: 6.80	50-200		01/17/24	

Radiological Parameters by APHA/EPA Methods

Method: EPA 200.8

Instr: ICPMS04

Batch ID: W4A0805

Preparation: EPA 200.2

Prepared: 01/10/24 15:41

Analyst: dak

Uranium Rad	0.88	0.13	pCi/ L	1	01/11/24	
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Method: SM 7110C

Instr: RAD01

Batch ID: W4A1115

Preparation: _NONE (RADIOCHEM)

Prepared: 01/13/24 11:11

Analyst: ela

Gross Alpha	-0.403		pCi/L	1	01/19/24	
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Counting Uncertainty: 0.165

MDA: 0.054

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Sample Results

(Continued)

Sample: Well 15 Effluent Field Blank, RegID: CA1910105_027_027

Sampled: 01/08/24 0:00 by Allan Goldberg

4A05003-06 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS

Method: EPA 533

Instr: LCMS06

Batch ID: W4A0986

Preparation: EPA 533/SPE

Prepared: 01/11/24 12:52

Analyst: JNA

11CI-PF3OUdS	ND	1.6	ng/l	1	01/17/24	
4:2 FTS	ND	1.6	ng/l	1	01/17/24	
6:2 FTS	ND	1.6	ng/l	1	01/17/24	
8:2 FTS	ND	1.6	ng/l	1	01/17/24	
9CI-PF3ONS	ND	1.6	ng/l	1	01/17/24	
ADONA	ND	1.6	ng/l	1	01/17/24	
HFPO-DA	ND	1.6	ng/l	1	01/17/24	
NFDHA	ND	1.6	ng/l	1	01/17/24	
PFBA	ND	1.6	ng/l	1	01/17/24	
PFBS	ND	1.6	ng/l	1	01/17/24	
PFDA	ND	1.6	ng/l	1	01/17/24	
PFDoA	ND	1.6	ng/l	1	01/17/24	
PFEESA	ND	1.6	ng/l	1	01/17/24	
PFHpA	ND	1.6	ng/l	1	01/17/24	
PFHpS	ND	1.6	ng/l	1	01/17/24	
PFHxA	ND	1.6	ng/l	1	01/17/24	
PFHxS	ND	1.6	ng/l	1	01/17/24	
PFMBA	ND	1.6	ng/l	1	01/17/24	
PFMPA	ND	1.6	ng/l	1	01/17/24	
PFNA	ND	1.6	ng/l	1	01/17/24	
PFOA	ND	1.6	ng/l	1	01/17/24	
PFOS	ND	1.6	ng/l	1	01/17/24	
PFPeA	ND	1.6	ng/l	1	01/17/24	
PFPeS	ND	1.6	ng/l	1	01/17/24	
PFOA	ND	1.6	ng/l	1	01/17/24	

Surrogate(s)

13C2-4:2 FTS	106%	Conc: 34.6	50-200	01/17/24
13C2-6:2 FTS	128%	Conc: 41.7	50-200	01/17/24
13C2-8:2 FTS	111%	Conc: 36.1	50-200	01/17/24
13C2-PFDoA	104%	Conc: 8.40	50-200	01/17/24
13C3-PFBS	110%	Conc: 8.94	50-200	01/17/24
13C3-PFHxS	106%	Conc: 8.64	50-200	01/17/24
13C4-PFBA	104%	Conc: 8.42	50-200	01/17/24
13C4-PFHpA	102%	Conc: 8.31	50-200	01/17/24

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Sample Results

(Continued)

Sample: Well 15 Effluent Field Blank, RegID: CA1910105_027_027

Sampled: 01/08/24 0:00 by Allan Goldberg

4A05003-06 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)						
Method: EPA 533			Instr: LCMS06			
Batch ID: W4A0986		Preparation: EPA 533/SPE		Prepared: 01/11/24 12:52		Analyst: JNA
13C5-PFHxA	101% Conc: 8.20	50-200			01/17/24	
13C5-PFPeA	104% Conc: 8.43	50-200			01/17/24	
13C6-PFDA	109% Conc: 8.84	50-200			01/17/24	
13C7-PFUnA	106% Conc: 8.61	50-200			01/17/24	
13C8-PFOA	103% Conc: 8.34	50-200			01/17/24	
13C8-PFOS	103% Conc: 8.36	50-200			01/17/24	
13C9-PFNA	107% Conc: 8.66	50-200			01/17/24	
HFPO-DA-13C3	81% Conc: 6.56	50-200			01/17/24	

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount
Project Manager: Charlene King

Reported:
02/14/2024 10:43

Sample Results

(Continued)

Sample: Travel Blank

Sampled: 01/08/24 0:00 by Allan Goldberg

4A05003-07 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 524.2		Instr: GCMS14				
Batch ID: W4A1056	Preparation: EPA 5030B	Prepared: 01/12/24 11:27		Analyst: JAN		
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l	1	01/13/24	
1,1,1-Trichloroethane	ND	0.50	ug/l	1	01/13/24	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	1	01/13/24	
1,1,2-Trichloroethane	ND	0.50	ug/l	1	01/13/24	
1,1-Dichloroethane	ND	0.50	ug/l	1	01/13/24	
1,1-Dichloroethene	ND	0.50	ug/l	1	01/13/24	
1,1-Dichloropropene	ND	0.50	ug/l	1	01/13/24	
1,2,3-Trichlorobenzene	ND	0.50	ug/l	1	01/13/24	
1,2,4-Trichlorobenzene	ND	0.50	ug/l	1	01/13/24	
1,2,4-Trimethylbenzene	ND	0.50	ug/l	1	01/13/24	
1,2-Dichloroethane	ND	0.50	ug/l	1	01/13/24	
1,2-Dichloropropane	ND	0.50	ug/l	1	01/13/24	
1,3,5-Trimethylbenzene	ND	0.50	ug/l	1	01/13/24	
1,3-Dichloropropane	ND	0.50	ug/l	1	01/13/24	
1,3-Dichloropropene, Total	ND	0.50	ug/l	1	01/13/24	
2,2-Dichloropropane	ND	0.50	ug/l	1	01/13/24	
2-Butanone	ND	5.0	ug/l	1	01/13/24	
2-Chlorotoluene	ND	0.50	ug/l	1	01/13/24	
2-Hexanone	ND	5.0	ug/l	1	01/13/24	
4-Chlorotoluene	ND	0.50	ug/l	1	01/13/24	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	01/13/24	
Benzene	ND	0.50	ug/l	1	01/13/24	
Bromobenzene	ND	0.50	ug/l	1	01/13/24	
Bromochloromethane	ND	0.50	ug/l	1	01/13/24	
Bromodichloromethane	ND	0.50	ug/l	1	01/13/24	
Bromoform	ND	0.50	ug/l	1	01/13/24	
Bromomethane	ND	0.50	ug/l	1	01/13/24	
Carbon tetrachloride	ND	0.50	ug/l	1	01/13/24	
Chlorobenzene	ND	0.50	ug/l	1	01/13/24	
Chloroethane	ND	0.50	ug/l	1	01/13/24	
Chloroform	ND	0.50	ug/l	1	01/13/24	
Chloromethane	ND	0.50	ug/l	1	01/13/24	
cis-1,2-Dichloroethene	ND	0.50	ug/l	1	01/13/24	
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	01/13/24	

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Sample Results

(Continued)

Sample: Travel Blank

Sampled: 01/08/24 0:00 by Allan Goldberg

4A05003-07 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Method: EPA 524.2		Instr: GCMS14				
Batch ID: W4A1056		Preparation: EPA 5030B			Prepared: 01/12/24 11:27	
		Analyst: JAN				
Dibromochloromethane	ND	0.50	ug/l	1	01/13/24	
Dibromomethane	ND	0.50	ug/l	1	01/13/24	
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l	1	01/13/24	
Di-isopropyl ether	ND	2.0	ug/l	1	01/13/24	
Ethyl tert-butyl ether	ND	2.0	ug/l	1	01/13/24	
Ethylbenzene	ND	0.50	ug/l	1	01/13/24	
Freon 113	ND	5.0	ug/l	1	01/13/24	
Hexachlorobutadiene	ND	0.50	ug/l	1	01/13/24	
Isopropylbenzene	ND	0.50	ug/l	1	01/13/24	
m,p-Xylene	ND	0.50	ug/l	1	01/13/24	
m-Dichlorobenzene	ND	0.50	ug/l	1	01/13/24	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l	1	01/13/24	
Methylene chloride	ND	0.50	ug/l	1	01/13/24	
Naphthalene	ND	0.50	ug/l	1	01/13/24	
n-Butylbenzene	ND	0.50	ug/l	1	01/13/24	
n-Propylbenzene	ND	0.50	ug/l	1	01/13/24	
o-Dichlorobenzene	ND	0.50	ug/l	1	01/13/24	
o-Xylene	ND	0.50	ug/l	1	01/13/24	
p-Dichlorobenzene	ND	0.50	ug/l	1	01/13/24	
p-Isopropyltoluene	ND	0.50	ug/l	1	01/13/24	
sec-Butylbenzene	ND	0.50	ug/l	1	01/13/24	
Styrene	ND	0.50	ug/l	1	01/13/24	
Tert-amyl methyl ether	ND	2.0	ug/l	1	01/13/24	
tert-Butylbenzene	ND	0.50	ug/l	1	01/13/24	
Tetrachloroethene	ND	0.50	ug/l	1	01/13/24	
THMs, Total	ND	2.0	ug/l	1	01/13/24	
Toluene	ND	0.50	ug/l	1	01/13/24	
trans-1,2-Dichloroethene	ND	0.50	ug/l	1	01/13/24	
trans-1,3-Dichloropropene	ND	0.50	ug/l	1	01/13/24	
Trichloroethene	ND	0.50	ug/l	1	01/13/24	
Trichlorofluoromethane	ND	0.50	ug/l	1	01/13/24	
Vinyl chloride	ND	0.50	ug/l	1	01/13/24	
Xylenes, Total	ND	0.50	ug/l	1	01/13/24	

Surrogate(s)

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount
Project Manager: Charlene King

Reported:
02/14/2024 10:43

Sample Results

(Continued)

Sample: Travel Blank

Sampled: 01/08/24 0:00 by Allan Goldberg

4A05003-07 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Method: EPA 524.2		Instr: GCMS14				
Batch ID: W4A1056		Preparation: EPA 5030B		Prepared: 01/12/24 11:27		Analyst: JAN
1,2-Dichlorobenzene-d4	94% Conc: 47.1	70-130			01/13/24	
4-Bromofluorobenzene	100% Conc: 50.2	70-130			01/13/24	

Sample Results Pace Analytical Services, Inc.

Sample: Well 15 Pre

Sampled: 01/08/24 11:20 by Allan Goldberg

4A05003-03 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
EPA 903.1							
Method: EPA 903.1		Batch ID: 642143		Prepared: 01/16/24 00:00		Analyst: CLM	
Radium-226	0.218			pCi/L	1	01/24/24	
Uncertainty: 0.473		MDA: 0.874					
EPA 904.0							
Method: EPA 904.0		Batch ID: 642144		Prepared: 01/16/24 00:00		Analyst: ZPC	
Radium-228	0.377			pCi/L	1	01/25/24	
Uncertainty: 0.378		MDA: 0.792					

Sample: Well 15 Effluent

Sampled: 01/08/24 11:30 by Allan Goldberg

4A05003-05 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
EPA 903.1							
Method: EPA 903.1		Batch ID: 642143		Prepared: 01/16/24 00:00		Analyst: CLM	
Radium-226	0.193			pCi/L	1	01/24/24	
Uncertainty: 0.333		MDA: 0.596					
EPA 904.0							
Method: EPA 904.0		Batch ID: 642144		Prepared: 01/16/24 00:00		Analyst: ZPC	
Radium-228	0.695			pCi/L	1	01/25/24	
Uncertainty: 0.411		MDA: 0.797					

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Quality Control Results

EPA 903.1

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: 642143 - EPA 903.1										
Duplicate (30653566003DUP)										
Radium-226	0.873		pCi/L dry					60	0.32	
Uncertainty: 0.546		MDA: 0.671		Prepared: 01/16/24 Analyzed: 01/24/24						
Matrix Spike (30653566004MS)										
Radium-226	12.3		pCi/L dry	9.84		112	0.71-1.36			
Uncertainty: 1.56		MDA: 0.918		Prepared: 01/16/24 Analyzed: 01/24/24						
Blank (3130966)										
Radium-226	0.141		pCi/L dry							
Uncertainty: 0.244		MDA: 0.437		Prepared: 01/16/24 Analyzed: 01/24/24						
LCS (LCS77229)										
Radium-226	6.07		pCi/L dry	4.94		123	0.73-1.33			
Uncertainty: 1.08		MDA: 0.685		Prepared: 01/16/24 Analyzed: 01/24/24						

Quality Control Results

EPA 904.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: 642144 - EPA 904.0										
Duplicate (30653566001DUP)										
Radium-228	0.522		pCi/L dry					20	36	
Uncertainty: 0.341		MDA: 0.67		Prepared: 01/16/24 Analyzed: 01/25/24						
Matrix Spike (30653566002MS)										
Radium-228	9.46		pCi/L dry	9.52		91	60-135			
Uncertainty: 1.03		MDA: 0.9		Prepared: 01/16/24 Analyzed: 01/25/24						
Blank (3130969)										
Radium-228	0.444		pCi/L dry							
Uncertainty: 0.387		MDA: 0.799		Prepared: 01/16/24 Analyzed: 01/25/24						
LCS (LCS77230)										
Radium-228	5.01		pCi/L dry	4.66		108	60-135			
Uncertainty: 0.777		MDA: 0.786		Prepared: 01/16/24 Analyzed: 01/25/24						

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Quality Control Results

(Continued)

1,4-Dioxane by SPE/GCMS SIM, EPA Method 522

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Qualifier
Batch: W4A0644 - EPA 522										
Blank (W4A0644-BLK1)										
1,4-Dioxane	ND	0.070	ug/l							
<i>Surrogate(s)</i>										
1,4-Dioxane-d8	9.64		ug/l	10.0		96	70-130			
LCS (W4A0644-BS1)										
1,4-Dioxane	0.369	0.070	ug/l	0.400		92	70-130			
<i>Surrogate(s)</i>										
1,4-Dioxane-d8	9.61		ug/l	10.0		96	70-130			
LCS Dup (W4A0644-BSD1)										
1,4-Dioxane	0.413	0.070	ug/l	0.400		103	70-130	11	30	
<i>Surrogate(s)</i>										
1,4-Dioxane-d8	10.0		ug/l	10.0		100	70-130			

Quality Control Results

(Continued)

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Qualifier
Batch: W4A1020 - SRL 524M-TCP										
Blank (W4A1020-BLK1)										
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4A1020-BS1)										
1,2,3-Trichloropropane	0.0186	0.0050	ug/l	0.0200		93	80-120			
LCS Dup (W4A1020-BSD1)										
1,2,3-Trichloropropane	0.0172	0.0050	ug/l	0.0200		86	80-120	8	20	
Duplicate (W4A1020-DUP1)										
1,2,3-Trichloropropane	ND	0.0050	ug/l		ND				20	

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Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Qualifier
Batch: W4A0805 - EPA 200.8										
Blank (W4A0805-BLK1)										
Prepared: 01/10/24 Analyzed: 01/11/24										
Arsenic, Total	ND	0.50	ug/l							
Manganese, Total	ND	1.0	ug/l							
LCS (W4A0805-BS1)										
Prepared: 01/10/24 Analyzed: 01/11/24										
Arsenic, Total	50.9	0.50	ug/l	50.0		102	85-115			
Manganese, Total	50.2	1.0	ug/l	50.0		100	85-115			
Matrix Spike (W4A0805-MS1)										
Source: 4A04102-01 Prepared: 01/10/24 Analyzed: 01/11/24										
Arsenic, Total	51.1	0.50	ug/l	50.0	ND	102	70-130			
Manganese, Total	48.9	1.0	ug/l	50.0	ND	98	70-130			
Matrix Spike Dup (W4A0805-MSD1)										
Source: 4A04102-01 Prepared: 01/10/24 Analyzed: 01/11/24										
Arsenic, Total	51.6	0.50	ug/l	50.0	ND	103	70-130	1	30	
Manganese, Total	49.0	1.0	ug/l	50.0	ND	98	70-130	0.3	30	

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Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC Limits	RPD RPD Limit	Qualifier
Batch: W4A0986 - EPA 533								
Blank (W4A0986-BLK1)				Prepared: 01/11/24 Analyzed: 01/17/24				
11CI-PF3OUdS	ND	2.0	ng/l					
4:2 FTS	ND	2.0	ng/l					
6:2 FTS	ND	2.0	ng/l					
8:2 FTS	ND	2.0	ng/l					
9CI-PF3ONS	ND	2.0	ng/l					
ADONA	ND	2.0	ng/l					
HFPO-DA	ND	2.0	ng/l					
NFDHA	ND	2.0	ng/l					
PFBA	ND	2.0	ng/l					
PFBS	ND	2.0	ng/l					
PFDA	ND	2.0	ng/l					
PFDoA	ND	2.0	ng/l					
PFEESA	ND	2.0	ng/l					
PFHpA	ND	2.0	ng/l					
PFHpS	ND	2.0	ng/l					
PFHxA	ND	2.0	ng/l					
PFHxS	ND	2.0	ng/l					
PFMBA	ND	2.0	ng/l					
PFMPA	ND	2.0	ng/l					
PFNA	ND	2.0	ng/l					
PFOA	ND	2.0	ng/l					
PFOS	ND	2.0	ng/l					
PFPeA	ND	2.0	ng/l					
PFPeS	ND	2.0	ng/l					
PFUnA	ND	2.0	ng/l					
<i>Surrogate(s)</i>								
13C2-4:2 FTS	45.2		ng/l	40.0		113 50-200		
13C2-6:2 FTS	55.8		ng/l	40.0		140 50-200		
13C2-8:2 FTS	47.5		ng/l	40.0		119 50-200		
13C2-PFDoA	9.84		ng/l	10.0		98 50-200		
13C3-PFBS	11.1		ng/l	10.0		111 50-200		
13C3-PFHxS	11.1		ng/l	10.0		111 50-200		
13C4-PFBA	10.3		ng/l	10.0		103 50-200		
13C4-PFHpA	10.5		ng/l	10.0		105 50-200		
13C5-PFHxA	10.2		ng/l	10.0		102 50-200		
13C5-PFPeA	10.4		ng/l	10.0		104 50-200		
13C6-PFDA	10.0		ng/l	10.0		100 50-200		
13C7-PFUnA	10.2		ng/l	10.0		102 50-200		
13C8-PFOA	10.4		ng/l	10.0		104 50-200		

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Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Qualifier
Batch: W4A0986 - EPA 533 (Continued)										
Blank (W4A0986-BLK1)										
<i>Surrogate(s)</i>										
13C8-PFOS	10.6		ng/l	10.0		106	50-200			
13C9-PFNA	10.5		ng/l	10.0		105	50-200			
HFPO-DA-13C3	8.23		ng/l	10.0		82	50-200			
LCS (W4A0986-BS1)										
<i>Surrogate(s)</i>										
11CI-PF3OUdS	82.6	2.0	ng/l	80.0		103	70-130			
4:2 FTS	76.8	2.0	ng/l	80.0		96	70-130			
6:2 FTS	80.5	2.0	ng/l	80.0		101	70-130			
8:2 FTS	85.4	2.0	ng/l	80.0		107	70-130			
9CI-PF3ONS	98.4	2.0	ng/l	80.0		123	70-130			
ADONA	74.4	2.0	ng/l	80.0		93	70-130			
HFPO-DA	84.4	2.0	ng/l	80.0		106	70-130			
NFDHA	68.1	2.0	ng/l	80.0		85	70-130			
PFBA	81.5	2.0	ng/l	80.0		102	70-130			
PFBS	76.6	2.0	ng/l	80.0		96	70-130			
PFDA	82.5	2.0	ng/l	80.0		103	70-130			
PFDoA	90.1	2.0	ng/l	80.0		113	70-130			
PFEESA	77.3	2.0	ng/l	80.0		97	70-130			
PFHpA	81.5	2.0	ng/l	80.0		102	70-130			
PFHpS	83.8	2.0	ng/l	80.0		105	70-130			
PFHxA	82.0	2.0	ng/l	80.0		102	70-130			
PFHxS	81.1	2.0	ng/l	80.0		101	70-130			
PFMBA	80.1	2.0	ng/l	80.0		100	70-130			
PFMPA	78.2	2.0	ng/l	80.0		98	70-130			
PFNA	82.1	2.0	ng/l	80.0		103	70-130			
PFOA	83.5	2.0	ng/l	80.0		104	70-130			
PFOS	82.2	2.0	ng/l	80.0		103	70-130			
PFPeA	82.9	2.0	ng/l	80.0		104	70-130			
PFPeS	80.8	2.0	ng/l	80.0		101	70-130			
PFUnA	80.8	2.0	ng/l	80.0		101	70-130			
<i>Surrogate(s)</i>										
13C2-4:2 FTS	42.2		ng/l	40.0		105	50-200			
13C2-6:2 FTS	53.4		ng/l	40.0		133	50-200			
13C2-8:2 FTS	46.2		ng/l	40.0		115	50-200			
13C2-PFDoA	9.03		ng/l	10.0		90	50-200			
13C3-PFBS	11.4		ng/l	10.0		114	50-200			
13C3-PFHxS	10.8		ng/l	10.0		108	50-200			
13C4-PFBA	8.64		ng/l	10.0		86	50-200			
13C4-PFHpA	8.74		ng/l	10.0		87	50-200			

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Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4A0986 - EPA 533 (Continued)									
LCS (W4A0986-BS1)					Prepared: 01/11/24 Analyzed: 01/17/24				
<i>Surrogate(s)</i>									
13C5-PFHxA	8.45		ng/l	10.0		84 50-200			
13C5-PFPeA	8.50		ng/l	10.0		85 50-200			
13C6-PFDA	8.89		ng/l	10.0		89 50-200			
13C7-PFUnA	9.27		ng/l	10.0		93 50-200			
13C8-PFOA	8.59		ng/l	10.0		86 50-200			
13C8-PFOS	10.2		ng/l	10.0		102 50-200			
13C9-PFNA	8.66		ng/l	10.0		87 50-200			
HFPO-DA-13C3	7.33		ng/l	10.0		73 50-200			
LCS Dup (W4A0986-BSD1)					Prepared: 01/11/24 Analyzed: 01/17/24				
11CI-PF3OUdS	78.5	2.0	ng/l	80.0		98 70-130	5	30	
4:2 FTS	73.0	2.0	ng/l	80.0		91 70-130	5	30	
6:2 FTS	79.2	2.0	ng/l	80.0		99 70-130	2	30	
8:2 FTS	77.2	2.0	ng/l	80.0		97 70-130	10	30	
9CI-PF3ONS	88.1	2.0	ng/l	80.0		110 70-130	11	30	
ADONA	77.4	2.0	ng/l	80.0		97 70-130	4	30	
HFPO-DA	81.0	2.0	ng/l	80.0		101 70-130	4	30	
NFDHA	80.5	2.0	ng/l	80.0		101 70-130	17	30	
PFBA	80.9	2.0	ng/l	80.0		101 70-130	0.8	30	
PFBS	78.4	2.0	ng/l	80.0		98 70-130	2	30	
PFDA	82.9	2.0	ng/l	80.0		104 70-130	0.5	30	
PFDoA	83.5	2.0	ng/l	80.0		104 70-130	8	30	
PFEESA	80.1	2.0	ng/l	80.0		100 70-130	4	30	
PFHpA	82.8	2.0	ng/l	80.0		103 70-130	2	30	
PFHpS	80.1	2.0	ng/l	80.0		100 70-130	5	30	
PFHxA	84.9	2.0	ng/l	80.0		106 70-130	3	30	
PFHxS	78.8	2.0	ng/l	80.0		99 70-130	3	30	
PFMBA	80.2	2.0	ng/l	80.0		100 70-130	0.2	30	
PFMPA	80.1	2.0	ng/l	80.0		100 70-130	2	30	
PFNA	80.8	2.0	ng/l	80.0		101 70-130	2	30	
PFOA	85.2	2.0	ng/l	80.0		106 70-130	2	30	
PFOS	79.5	2.0	ng/l	80.0		99 70-130	3	30	
PFPeA	81.2	2.0	ng/l	80.0		101 70-130	2	30	
PFPeS	80.6	2.0	ng/l	80.0		101 70-130	0.2	30	
PFUnA	83.9	2.0	ng/l	80.0		105 70-130	4	30	
<i>Surrogate(s)</i>									
13C2-4:2 FTS	45.9		ng/l	40.0		115 50-200			
13C2-6:2 FTS	61.1		ng/l	40.0		153 50-200			
13C2-8:2 FTS	50.6		ng/l	40.0		127 50-200			

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Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Qualifier
Batch: W4A0986 - EPA 533 (Continued)										
LCS Dup (W4A0986-BSD1)										
<i>Surrogate(s)</i>										
13C2-PFDoA	9.53		ng/l	10.0		95	50-200			
13C3-PFBS	11.5		ng/l	10.0		115	50-200			
13C3-PFHxS	11.4		ng/l	10.0		114	50-200			
13C4-PFBA	10.1		ng/l	10.0		101	50-200			
13C4-PFHpA	9.72		ng/l	10.0		97	50-200			
13C5-PFHxA	9.38		ng/l	10.0		94	50-200			
13C5-PFPeA	10.0		ng/l	10.0		100	50-200			
13C6-PFDA	9.48		ng/l	10.0		95	50-200			
13C7-PFUnA	9.49		ng/l	10.0		95	50-200			
13C8-PFOA	9.43		ng/l	10.0		94	50-200			
13C8-PFOS	10.9		ng/l	10.0		109	50-200			
13C9-PFNA	9.46		ng/l	10.0		95	50-200			
HFPO-DA-13C3	8.18		ng/l	10.0		82	50-200			

Prepared: 01/11/24 Analyzed: 01/17/24

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Radiological Parameters by APHA/EPA Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W4A0805 - EPA 200.8										
Blank (W4A0805-BLK1)										
Uranium Rad	ND	0.13	pCi/ L							
				Prepared: 01/10/24 Analyzed: 01/11/24						
LCS (W4A0805-BS1)										
Uranium Rad	33.3	0.13	pCi/ L	33.5		99	85-115			
				Prepared: 01/10/24 Analyzed: 01/11/24						
Matrix Spike (W4A0805-MS1)										
Uranium Rad	34.4	0.13	pCi/ L	33.5	0.353	101	70-130			
				Prepared: 01/10/24 Analyzed: 01/11/24						
Matrix Spike Dup (W4A0805-MSD1)										
Uranium Rad	34.8	0.13	pCi/ L	33.5	0.353	103	70-130	1	30	
Batch: W4A1115 - SM 7110C										
Blank (W4A1115-BLK1)										
Gross Alpha	-0.986		pCi/L							
Counting Uncertainty: 0.144		MDA: 0.054								
LCS (W4A1115-BS1)										
Gross Alpha	6.69		pCi/L	7.20		93	60-122			
Counting Uncertainty: 0.421		MDA: 0.054								
Matrix Spike (W4A1115-MS1)										
Gross Alpha	12.2		pCi/L	14.4	-0.452	85	28-149			
Counting Uncertainty: 0.4		MDA: 0.215								
Matrix Spike Dup (W4A1115-MSD1)										
Gross Alpha	14.5		pCi/L	14.4	-0.452	101	28-149	17	30	
Counting Uncertainty: 0.442		MDA: 0.215								

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Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4A1016 - EPA 524.2									
Blank (W4A1016-BLK1)				Prepared: 01/12/24 Analyzed: 01/15/24					
Methylene chloride	ND	0.50	ug/l						
<i>Surrogate(s)</i>									
1,2-Dichlorobenzene-d4	0.00		ug/l	10.0		70-130			
4-Bromofluorobenzene	0.00		ug/l	10.0		70-130			
LCS (W4A1016-BS1)				Prepared: 01/12/24 Analyzed: 01/15/24					
Methylene chloride	ND	0.50	ug/l	10.0		70-130			
<i>Surrogate(s)</i>									
1,2-Dichlorobenzene-d4	0.00		ug/l	10.0		70-130			
4-Bromofluorobenzene	0.00		ug/l	10.0		70-130			
LCS Dup (W4A1016-BSD1)				Prepared: 01/12/24 Analyzed: 01/15/24					
Methylene chloride	ND	0.50	ug/l	10.0		70-130		30	
<i>Surrogate(s)</i>									
1,2-Dichlorobenzene-d4	0.00		ug/l	10.0		70-130			
4-Bromofluorobenzene	0.00		ug/l	10.0		70-130			
Batch: W4A1056 - EPA 524.2									
Blank (W4A1056-BLK1)				Prepared & Analyzed: 01/12/24					
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l						
1,1,1-Trichloroethane	ND	0.50	ug/l						
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l						
1,1,2-Trichloroethane	ND	0.50	ug/l						
1,1-Dichloroethane	ND	0.50	ug/l						
1,1-Dichloroethene	ND	0.50	ug/l						
1,1-Dichloropropene	ND	0.50	ug/l						
1,2,3-Trichlorobenzene	ND	0.50	ug/l						
1,2,4-Trichlorobenzene	ND	0.50	ug/l						
1,2,4-Trimethylbenzene	ND	0.50	ug/l						
1,2-Dichloroethane	ND	0.50	ug/l						
1,2-Dichloropropane	ND	0.50	ug/l						
1,3,5-Trimethylbenzene	ND	0.50	ug/l						
1,3-Dichloropropane	ND	0.50	ug/l						
1,3-Dichloropropene, Total	ND	0.50	ug/l						
2,2-Dichloropropane	ND	0.50	ug/l						
2-Butanone	ND	5.0	ug/l						
2-Chlorotoluene	ND	0.50	ug/l						
2-Hexanone	ND	5.0	ug/l						
4-Chlorotoluene	ND	0.50	ug/l						
4-Methyl-2-pentanone	ND	5.0	ug/l						
Benzene	ND	0.50	ug/l						
Bromobenzene	ND	0.50	ug/l						

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4A1056 - EPA 524.2 (Continued)				Prepared & Analyzed: 01/12/24					
Blank (W4A1056-BLK1)									
Bromochloromethane	ND	0.50	ug/l						
Bromodichloromethane	ND	0.50	ug/l						
Bromoform	ND	0.50	ug/l						
Bromomethane	ND	0.50	ug/l						
Carbon tetrachloride	ND	0.50	ug/l						
Chlorobenzene	ND	0.50	ug/l						
Chloroethane	ND	0.50	ug/l						
Chloroform	ND	0.50	ug/l						
Chloromethane	ND	0.50	ug/l						
cis-1,2-Dichloroethene	ND	0.50	ug/l						
cis-1,3-Dichloropropene	ND	0.50	ug/l						
Dibromochloromethane	ND	0.50	ug/l						
Dibromomethane	ND	0.50	ug/l						
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l						
Di-isopropyl ether	ND	2.0	ug/l						
Ethyl tert-butyl ether	ND	2.0	ug/l						
Ethylbenzene	ND	0.50	ug/l						
Freon 113	ND	5.0	ug/l						
Hexachlorobutadiene	ND	0.50	ug/l						
Isopropylbenzene	ND	0.50	ug/l						
m,p-Xylene	ND	0.50	ug/l						
m-Dichlorobenzene	ND	0.50	ug/l						
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l						
Methylene chloride	ND	0.50	ug/l						
Naphthalene	ND	0.50	ug/l						
n-Butylbenzene	ND	0.50	ug/l						
n-Propylbenzene	ND	0.50	ug/l						
o-Dichlorobenzene	ND	0.50	ug/l						
o-Xylene	ND	0.50	ug/l						
p-Dichlorobenzene	ND	0.50	ug/l						
p-Isopropyltoluene	ND	0.50	ug/l						
sec-Butylbenzene	ND	0.50	ug/l						
Styrene	ND	0.50	ug/l						
Tert-amyl methyl ether	ND	2.0	ug/l						
tert-Butylbenzene	ND	0.50	ug/l						
Tetrachloroethene	ND	0.50	ug/l						
THMs, Total	ND	2.0	ug/l						
Toluene	ND	0.50	ug/l						
trans-1,2-Dichloroethene	ND	0.50	ug/l						

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(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4A1056 - EPA 524.2 (Continued)									
Blank (W4A1056-BLK1)					Prepared & Analyzed: 01/12/24				
trans-1,3-Dichloropropene	ND	0.50	ug/l						
Trichloroethene	ND	0.50	ug/l						
Trichlorofluoromethane	ND	0.50	ug/l						
Vinyl chloride	ND	0.50	ug/l						
Xylenes, Total	ND	0.50	ug/l						
<i>Surrogate(s)</i>									
1,2-Dichlorobenzene-d4	46.7		ug/l	50.0		93 70-130			
4-Bromofluorobenzene	48.9		ug/l	50.0		98 70-130			
LCS (W4A1056-BS1)					Prepared & Analyzed: 01/12/24				
1,1,1,2-Tetrachloroethane	5.12	0.50	ug/l	5.00		102 70-130			
1,1,1-Trichloroethane	4.88	0.50	ug/l	5.00		98 70-130			
1,1,2,2-Tetrachloroethane	4.90	0.50	ug/l	5.00		98 70-130			
1,1,2-Trichloroethane	4.87	0.50	ug/l	5.00		97 70-130			
1,1-Dichloroethane	4.74	0.50	ug/l	5.00		95 70-130			
1,1-Dichloroethene	4.82	0.50	ug/l	5.00		96 70-130			
1,1-Dichloropropene	4.92	0.50	ug/l	5.00		98 70-130			
1,2,3-Trichlorobenzene	5.50	0.50	ug/l	5.00		110 70-130			
1,2,4-Trichlorobenzene	5.40	0.50	ug/l	5.00		108 70-130			
1,2,4-Trimethylbenzene	5.14	0.50	ug/l	5.00		103 70-130			
1,2-Dichloroethane	4.63	0.50	ug/l	5.00		93 70-130			
1,2-Dichloropropane	4.63	0.50	ug/l	5.00		93 70-130			
1,3,5-Trimethylbenzene	5.42	0.50	ug/l	5.00		108 70-130			
1,3-Dichloropropane	4.92	0.50	ug/l	5.00		98 70-130			
2,2-Dichloropropane	5.39	0.50	ug/l	5.00		108 70-130			
2-Butanone	4.64	5.0	ug/l	5.00		93 70-130			
2-Chlorotoluene	5.20	0.50	ug/l	5.00		104 70-130			
2-Hexanone	4.95	5.0	ug/l	5.00		99 70-130			
4-Chlorotoluene	5.27	0.50	ug/l	5.00		105 70-130			
4-Methyl-2-pentanone	4.34	5.0	ug/l	5.00		87 70-130			
Benzene	4.92	0.50	ug/l	5.00		98 70-130			
Bromobenzene	4.99	0.50	ug/l	5.00		100 70-130			
Bromochloromethane	4.53	0.50	ug/l	5.00		91 70-130			
Bromodichloromethane	4.64	0.50	ug/l	5.00		93 70-130			
Bromoform	4.97	0.50	ug/l	5.00		99 70-130			
Bromomethane	4.82	0.50	ug/l	5.00		96 70-130			
Carbon tetrachloride	4.92	0.50	ug/l	5.00		98 70-130			
Chlorobenzene	5.29	0.50	ug/l	5.00		106 70-130			
Chloroethane	4.87	0.50	ug/l	5.00		97 70-130			
Chloroform	4.62	0.50	ug/l	5.00		92 70-130			

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4A1056 - EPA 524.2 (Continued)									
LCS (W4A1056-BS1)				Prepared & Analyzed: 01/12/24					
Chloromethane	4.79	0.50	ug/l	5.00	96	70-130			
cis-1,2-Dichloroethene	4.63	0.50	ug/l	5.00	93	70-130			
cis-1,3-Dichloropropene	4.34	0.50	ug/l	5.00	87	70-130			
Dibromochloromethane	5.04	0.50	ug/l	5.00	101	70-130			
Dibromomethane	4.57	0.50	ug/l	5.00	91	70-130			
Dichlorodifluoromethane (Freon 12)	5.13	0.50	ug/l	5.00	103	70-130			
Di-isopropyl ether	18.1	2.0	ug/l	20.0	91	70-130			
Ethyl tert-butyl ether	19.4	2.0	ug/l	20.0	97	70-130			
Ethylbenzene	5.13	0.50	ug/l	5.00	103	70-130			
Freon 113	4.98	5.0	ug/l	5.00	100	70-130			
Hexachlorobutadiene	5.58	0.50	ug/l	5.00	112	70-130			
Isopropylbenzene	5.19	0.50	ug/l	5.00	104	70-130			
m,p-Xylene	5.10	0.50	ug/l	5.00	102	70-130			
m-Dichlorobenzene	5.25	0.50	ug/l	5.00	105	70-130			
Methyl tert-butyl ether (MTBE)	19.0	2.0	ug/l	20.0	95	70-130			
Methylene chloride	4.55	0.50	ug/l	5.00	91	70-130			
Naphthalene	4.96	0.50	ug/l	5.00	99	70-130			
n-Butylbenzene	5.60	0.50	ug/l	5.00	112	70-130			
n-Propylbenzene	5.82	0.50	ug/l	5.00	116	70-130			
o-Dichlorobenzene	4.59	0.50	ug/l	5.00	92	70-130			
o-Xylene	5.06	0.50	ug/l	5.00	101	70-130			
p-Dichlorobenzene	5.26	0.50	ug/l	5.00	105	70-130			
p-Isopropyltoluene	5.25	0.50	ug/l	5.00	105	70-130			
sec-Butylbenzene	5.24	0.50	ug/l	5.00	105	70-130			
Styrene	5.10	0.50	ug/l	5.00	102	70-130			
Tert-amyl methyl ether	19.6	2.0	ug/l	20.0	98	70-130			
tert-Butylbenzene	5.21	0.50	ug/l	5.00	104	70-130			
Tetrachloroethene	5.18	0.50	ug/l	5.00	104	70-130			
Toluene	5.52	0.50	ug/l	5.00	110	70-130			
trans-1,2-Dichloroethene	4.79	0.50	ug/l	5.00	96	70-130			
trans-1,3-Dichloropropene	4.40	0.50	ug/l	5.00	88	70-130			
Trichloroethene	5.06	0.50	ug/l	5.00	101	70-130			
Trichlorofluoromethane	4.98	0.50	ug/l	5.00	100	70-130			
Vinyl chloride	4.88	0.50	ug/l	5.00	98	70-130			
<i>Surrogate(s)</i>									
1,2-Dichlorobenzene-d4	50.9		ug/l	50.0	102	70-130			
4-Bromofluorobenzene	52.1		ug/l	50.0	104	70-130			
LCS Dup (W4A1056-BSD1)				Prepared & Analyzed: 01/12/24					
1,1,1,2-Tetrachloroethane	5.20	0.50	ug/l	5.00	104	70-130	2	30	

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4A1056 - EPA 524.2 (Continued)									
LCS Dup (W4A1056-BSD1)				Prepared & Analyzed: 01/12/24					
1,1,1-Trichloroethane	4.37	0.50	ug/l	5.00	87	70-130	11	30	
1,1,2,2-Tetrachloroethane	4.99	0.50	ug/l	5.00	100	70-130	2	30	
1,1,2-Trichloroethane	5.02	0.50	ug/l	5.00	100	70-130	3	30	
1,1-Dichloroethane	4.71	0.50	ug/l	5.00	94	70-130	0.6	30	
1,1-Dichloroethene	4.25	0.50	ug/l	5.00	85	70-130	13	30	
1,1-Dichloropropene	4.42	0.50	ug/l	5.00	88	70-130	11	30	
1,2,3-Trichlorobenzene	5.63	0.50	ug/l	5.00	113	70-130	2	30	
1,2,4-Trichlorobenzene	5.50	0.50	ug/l	5.00	110	70-130	2	30	
1,2,4-Trimethylbenzene	5.06	0.50	ug/l	5.00	101	70-130	2	30	
1,2-Dichloroethane	4.73	0.50	ug/l	5.00	95	70-130	2	30	
1,2-Dichloropropane	4.70	0.50	ug/l	5.00	94	70-130	1	30	
1,3,5-Trimethylbenzene	5.30	0.50	ug/l	5.00	106	70-130	2	30	
1,3-Dichloropropane	5.09	0.50	ug/l	5.00	102	70-130	4	30	
2,2-Dichloropropane	4.91	0.50	ug/l	5.00	98	70-130	9	30	
2-Butanone	4.61	5.0	ug/l	5.00	92	70-130	0.6	30	
2-Chlorotoluene	5.25	0.50	ug/l	5.00	105	70-130	1	30	
2-Hexanone	5.24	5.0	ug/l	5.00	105	70-130	6	30	
4-Chlorotoluene	5.28	0.50	ug/l	5.00	106	70-130	0.04	30	
4-Methyl-2-pentanone	4.56	5.0	ug/l	5.00	91	70-130	5	30	
Benzene	4.88	0.50	ug/l	5.00	98	70-130	0.7	30	
Bromobenzene	5.23	0.50	ug/l	5.00	105	70-130	5	30	
Bromochloromethane	4.66	0.50	ug/l	5.00	93	70-130	3	30	
Bromodichloromethane	4.71	0.50	ug/l	5.00	94	70-130	1	30	
Bromoform	5.09	0.50	ug/l	5.00	102	70-130	2	30	
Bromomethane	4.71	0.50	ug/l	5.00	94	70-130	2	30	
Carbon tetrachloride	4.25	0.50	ug/l	5.00	85	70-130	15	30	
Chlorobenzene	5.39	0.50	ug/l	5.00	108	70-130	2	30	
Chloroethane	4.51	0.50	ug/l	5.00	90	70-130	8	30	
Chloroform	4.63	0.50	ug/l	5.00	93	70-130	0.2	30	
Chloromethane	4.63	0.50	ug/l	5.00	93	70-130	3	30	
cis-1,2-Dichloroethene	4.64	0.50	ug/l	5.00	93	70-130	0.1	30	
cis-1,3-Dichloropropene	4.57	0.50	ug/l	5.00	91	70-130	5	30	
Dibromochloromethane	5.19	0.50	ug/l	5.00	104	70-130	3	30	
Dibromomethane	4.72	0.50	ug/l	5.00	94	70-130	3	30	
Dichlorodifluoromethane (Freon 12)	4.25	0.50	ug/l	5.00	85	70-130	19	30	
Di-isopropyl ether	18.6	2.0	ug/l	20.0	93	70-130	3	30	
Ethyl tert-butyl ether	20.2	2.0	ug/l	20.0	101	70-130	4	30	
Ethylbenzene	4.97	0.50	ug/l	5.00	99	70-130	3	30	
Freon 113	4.19	5.0	ug/l	5.00	84	70-130	17	30	

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
02/14/2024 10:43

Project Manager: Charlene King

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4A1056 - EPA 524.2 (Continued)									
LCS Dup (W4A1056-BSD1)				Prepared & Analyzed: 01/12/24					
Hexachlorobutadiene	5.17	0.50	ug/l	5.00	103	70-130	8	30	
Isopropylbenzene	4.88	0.50	ug/l	5.00	98	70-130	6	30	
m,p-Xylene	5.00	0.50	ug/l	5.00	100	70-130	2	30	
m-Dichlorobenzene	5.30	0.50	ug/l	5.00	106	70-130	1	30	
Methyl tert-butyl ether (MTBE)	19.7	2.0	ug/l	20.0	99	70-130	4	30	
Methylene chloride	4.62	0.50	ug/l	5.00	92	70-130	1	30	
Naphthalene	5.14	0.50	ug/l	5.00	103	70-130	4	30	
n-Butylbenzene	5.20	0.50	ug/l	5.00	104	70-130	7	30	
n-Propylbenzene	5.49	0.50	ug/l	5.00	110	70-130	6	30	
o-Dichlorobenzene	4.70	0.50	ug/l	5.00	94	70-130	2	30	
o-Xylene	5.04	0.50	ug/l	5.00	101	70-130	0.4	30	
p-Dichlorobenzene	5.24	0.50	ug/l	5.00	105	70-130	0.3	30	
p-Isopropyltoluene	4.94	0.50	ug/l	5.00	99	70-130	6	30	
sec-Butylbenzene	4.85	0.50	ug/l	5.00	97	70-130	8	30	
Styrene	5.19	0.50	ug/l	5.00	104	70-130	2	30	
Tert-amyl methyl ether	20.3	2.0	ug/l	20.0	102	70-130	4	30	
tert-Butylbenzene	4.92	0.50	ug/l	5.00	98	70-130	6	30	
Tetrachloroethene	4.74	0.50	ug/l	5.00	95	70-130	9	30	
Toluene	5.38	0.50	ug/l	5.00	108	70-130	3	30	
trans-1,2-Dichloroethene	4.54	0.50	ug/l	5.00	91	70-130	5	30	
trans-1,3-Dichloropropene	4.52	0.50	ug/l	5.00	90	70-130	3	30	
Trichloroethene	4.87	0.50	ug/l	5.00	97	70-130	4	30	
Trichlorofluoromethane	4.15	0.50	ug/l	5.00	83	70-130	18	30	
Vinyl chloride	4.36	0.50	ug/l	5.00	87	70-130	11	30	
<i>Surrogate(s)</i>									
1,2-Dichlorobenzene-d4	50.3		ug/l	50.0	101	70-130			
4-Bromofluorobenzene	52.0		ug/l	50.0	104	70-130			
Batch: W4A1220 - EPA 524.2									
Blank (W4A1220-BLK1)				Prepared: 01/16/24 Analyzed: 01/17/24					
Methylene chloride	ND	0.50	ug/l						
<i>Surrogate(s)</i>									
1,2-Dichlorobenzene-d4	50.6		ug/l	50.0	101	70-130			
4-Bromofluorobenzene	55.6		ug/l	50.0	111	70-130			
LCS (W4A1220-BS1)				Prepared: 01/16/24 Analyzed: 01/17/24					
Methylene chloride	4.03	0.50	ug/l	5.00	81	70-130			
<i>Surrogate(s)</i>									
1,2-Dichlorobenzene-d4	55.0		ug/l	50.0	110	70-130			
4-Bromofluorobenzene	59.6		ug/l	50.0	119	70-130			
LCS Dup (W4A1220-BSD1)				Prepared: 01/16/24 Analyzed: 01/17/24					

Water Replenishment District
 4040 Paramount Blvd.
 Lakewood, CA 90712

Project Number: City of Paramount

Reported:
 02/14/2024 10:43

Project Manager: Charlene King

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W4A1220 - EPA 524.2 (Continued)										
LCS Dup (W4A1220-BSD1)										
Methylene chloride	4.23	0.50	ug/l	5.00		85	70-130	5	30	
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	54.0		ug/l	50.0		108	70-130			
4-Bromofluorobenzene	58.6		ug/l	50.0		117	70-130			

Water Replenishment District
 4040 Paramount Blvd.
 Lakewood, CA 90712

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 02/14/2024 10:43

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Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDA	Minimum Detectable Activity
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Weck Laboratories, Inc.

CHAIN OF CUSTODY RECORD

14859 East Clark Avenue : Industry : CA 91745
Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Analytical Laboratory Services - Since 1964

Work Order #

4A-05203

Page 1 Of 1

CLIENT NAME: Water Replenishment District		PROJECT: City of Paramount		<table border="1"> <tr> <td>524.2 Methylene Chloride</td> <td>EPA 522- 1,4 Dioxane</td> <td>EPA 533</td> <td>EPA 200.8 Mn</td> <td>EPA 200.8 As</td> <td>EPA 524M SRL 1,2,3-TCP</td> <td>EPA 900.0 Gross Alpha, 200.8 U_rad</td> <td>Radium 226/Radium 228</td> </tr> </table>								524.2 Methylene Chloride	EPA 522- 1,4 Dioxane	EPA 533	EPA 200.8 Mn	EPA 200.8 As	EPA 524M SRL 1,2,3-TCP	EPA 900.0 Gross Alpha, 200.8 U_rad	Radium 226/Radium 228	SPECIAL HANDLING <input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input type="checkbox"/> 10 - 15 Business Days <input type="checkbox"/> QA/QC Data Package	
524.2 Methylene Chloride	EPA 522- 1,4 Dioxane	EPA 533	EPA 200.8 Mn									EPA 200.8 As	EPA 524M SRL 1,2,3-TCP	EPA 900.0 Gross Alpha, 200.8 U_rad	Radium 226/Radium 228						
ADDRESS: 4040 Paramount Blvd Lakewood, Ca 90712		PHONE: 562-921-5521 FAX: EMAIL: cking@wrld.org										Charges will apply for weekends/holidays		Method of Shipment:							
PROJECT MANAGER Charlene King		SAMPLER Weck - <i>ALLAN</i>		COMMENTS																	

WTX IDs	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	524.2 Methylene Chloride	EPA 522- 1,4 Dioxane	EPA 533	EPA 200.8 Mn	EPA 200.8 As	EPA 524M SRL 1,2,3-TCP	EPA 900.0 Gross Alpha, 200.8 U_rad	Radium 226/Radium 228	
3DEB1	1/8/24	1055	GW	Well 14 CA1910105_016_016	8	x	x	x	x					Fld Temp 16.6°c
			FB	Well 14 - FRB	1			x						
3DEB2		1120	GW	Well 15 (Pre) CA1910105_025_025	8			x	x	x	x	x	x	Fld Temp 18.5°c
			FB	Well 15 (Pre) - FRB	1			x						
3DEB3		1130	GW	Well 15 (Effluent) CA1910105_027_027	8			x	x	x	x	x	x	Fld Temp 18.6°c
			FB	Well 15 (Effluent) - FRB	1			x						
			TB	Travel Blank	1	x								

RELINQUISHED BY <i>[Signature]</i>	DATE / TIME 1/8/24 1600	RECEIVED BY <i>[Signature]</i>	DATE / TIME 1/8/24 16:00	SAMPLE CONDITION Actual Temperature: 4.4 Received On Ice <input type="checkbox"/> Y <input type="checkbox"/> N Preserved <input type="checkbox"/> Y <input type="checkbox"/> N Evidence Seals Present <input type="checkbox"/> Y <input type="checkbox"/> N Container Attacked <input type="checkbox"/> Y <input type="checkbox"/> N Preserved at Lab <input type="checkbox"/> Y <input type="checkbox"/> N <i>[Signature]</i>	SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME		
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME		

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS

Client agrees to Terms & Conditions at: www.wecklabs.com WTX: 20352

SPECIAL REQUIREMENTS / BILLING INFORMATION

Watertrax Uploaded Needed

COC version 042707



Sample Receipt Checklist

Weck WKO: **4A05003**

Date/Time Received: **01/08/24 16:00**

WKO-Logged by: **Jaime Gomez**

of Samples: **07**

Samples Checked by: **Jaime Gomez**

Delivered by: **Allan Goldberg**

Task	Yes	No	N/A	Comments
COC				
COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified about COC discrepancy?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample Temperature				
Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		4.4 °C
Ice Type (Blue/Wet)				
All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified about receipt info?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VOC Headspace: (No) none, if Yes (see comment)				
524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <6mm/Pea Size?
pH verified upon receipt?				pH paper Lot# 3082367
Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2, 6710B<2, 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Free Chlorine Tested <0.1 (Organics Analyses)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cl Test Strip Lot# 41032201
O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading:
Project Manager notified about sample preservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acid Lot#
				Amt added:

PM Comments

Sample Receipt Checklist Completed by:

Signature: *Jaime Gomez*

Date: **01/08/24**



Subcontract Order

Project Number: 4A05003

Subcontracted Laboratory:

Pace Analytical Services - Greensburg PA
1638 Roseytown Road Ste 2
Greensburg, PA 15601
Phone: (724) 850-5600
Fax: (724) 850-5601

Turn Around Time:

Normal

Project Manager:

Valerie I. Ayo

Project Name:

Paramount, City of

Project Number: 4A05003

Analysis	Expires	Comments
Sample ID: 4A05003-03/Well 15 Pre		
Matrix: Water		Sampled: 01/08/2024 11:20
Alias:		Regulatory ID: CA1910105_025_025
Radium-228 (EPA 904.0) - sub	07/06/2024 11:20	DW CLIP needed
Radium-226 (EPA 903.1) - sub	07/06/2024 11:20	DW CLIP needed
Sample ID: 4A05003-05/Well 15 Effluent		
Matrix: Water		Sampled: 01/08/2024 11:30
Alias:		Regulatory ID: CA1910105_027_027
Radium-228 (EPA 904.0) - sub	07/06/2024 11:30	DW CLIP needed
Radium-226 (EPA 903.1) - sub	07/06/2024 11:30	DW CLIP needed

Remarks / Special Comments:

VAV

Sample Condition

Temperature:

Preserved: Yes / No

Evidence Seal Intact: Yes / No

Container Attacked: Yes / No

Preserved at Lab: Yes / No

Chris Kozma

11/11/24

Relinquished By

Date / Time Received By

Date / Time

Relinquished By

Date / Time Received By

Date / Time

Ship	LTL Freight	Ship History	My Lists	Reports	Administration
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Your Shipment Details

From:	Weck Labs Sample Receiving 14859 CLARK AVE HACIENDA HEIGHTS, CA 91745 US 6263362139	Ship date:	01/11/2024
		Weight:	12.00 LBS
		Declared value:	0.00 USD
		Package Contents:	
		Document Description:	
		Shipment Purpose:	
		Invoice number:	
		Freight On Value:	
To:	SubContract Pace Analytical Services - Greenbur 1638 Roseytown Road Ste 2 Greensburg, PA 15601 US 7248505600	Pricing Option:	FedEx Standard Rate
		Service type:	Standard Overnight
		Package type:	Your Packaging
		Pickup/Drop Off:	Pickup requested, view Pickup History for details
		Dimensions:	19 x 11 x 13 in
		Shipper account number:	Weck SR-452
		Bill transportation to:	Weck SR-452
Tracking no.:	774792865537	Courtesy rate quote:*	98.69 USD
		Published rates:	
		Effective net discount:	
		Discounted variable %:	
		Special services:	
		Shipment type:	Express
		Commercial/Residential Status:	Commercial

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