

**Work Orders:** 2G06004

**Report Date:** 8/02/2022

**Project:** City of Paramount

**Received Date:** 7/11/2022

**Turnaround Time:** Normal

**Phones:** (562) 275-4252

**Fax:** (562) 921-6101

**Attn:** Charlene King

**P.O. #:**

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

**Billing Code:**

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH #4047 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • SCAQMD #93LA1006

*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 7/11/22 with the Chain-of-Custody document. The samples were received in good condition, at 2.3 °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:**



Valerie I. Ayo  
Project Manager



Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Project Manager:** Charlene King

**Reported:**  
08/02/2022 16:58

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Well 14 CA1910105_016_016	Allan Goldberg (wecklabs)	2G06004-01	Water	07/11/22 11:05	
Well 14 CA1910105 FB	Allan Goldberg (wecklabs)	2G06004-02	Water	07/11/22 00:00	
Well 15 Pre CA1910105_025_025	Allan Goldberg (wecklabs)	2G06004-03	Water	07/11/22 10:30	
Well 15 Effluent CA1910105_027_027	Allan Goldberg (wecklabs)	2G06004-04	Water	07/11/22 10:35	
Travel Blank	Allan Goldberg (wecklabs)	2G06004-05	Water	07/11/22 00:00	

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>AWWA in Water</b>			
Aggressive Index		✓	
<b>EPA 537.1 in Water</b>			
PFBS	375-73-5		✓
PFHxA	307-24-4		✓
HFPO-DA	13252-13-6		✓
PFHpA	375-85-9		✓
PFHxS	355-46-4		✓
ADONA	958445-44-8		✓
PFOA	335-67-1		✓
PFNA	375-95-1		✓
PFOS	1763-23-1		✓
9CI-PF3ONS	756426-58-1		✓
PFDA	335-76-2		✓
MeFOSAA	2355-31-9		✓
EtFOSAA	2991-50-6		✓
PfUnA	2058-94-8		✓
11CI-PF3OUdS	763051-92-9		✓
PFDoA	307-55-1		✓
PFTrDA	72629-94-8		✓
PFTeDA	376-06-7		✓
<b>SRL 524M-TCP in Water</b>			
1,2,3-Trichloropropane	96-18-4	✓	

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## Sample Results

Sample: Well 14 CA1910105\_016\_016  
2G06004-01 (Water)

Sampled: 07/11/22 11:05 by Allan Goldberg (wecklabs)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>1,4-Dioxane by SPE/GCMS SIM, EPA Method 522</b>						
<b>Method:</b> EPA 522		<b>Instr:</b> GCMS20				
<b>Batch ID:</b> W2G0763	<b>Preparation:</b> EPA 522/SPE	<b>Prepared:</b> 07/13/22 07:56		<b>Analyst:</b> mld		
1,4-Dioxane	0.28	0.070	ug/l	1	07/16/22	
<i>Surrogate(s)</i>						
1,4-Dioxane-d8	83% Conc: 8.27	70-130			07/16/22	
<b>Anions by IC, EPA Method 300.0</b>						
<b>Method:</b> EPA 300.0		<b>Instr:</b> LC12				
<b>Batch ID:</b> W2G0775	<b>Preparation:</b> _NONE (LC)	<b>Prepared:</b> 07/13/22 08:48		<b>Analyst:</b> jan		
Chloride, Total	34	0.50	mg/l	1	07/14/22	
Fluoride, Total	0.35	0.10	mg/l	1	07/14/22	
Sulfate as SO4	77	0.50	mg/l	1	07/14/22	
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>						
<b>Method:</b> *** DEFAULT SPECIFIC METHOD ***		<b>Instr:</b> [CALC]				
<b>Batch ID:</b> [CALC]	<b>Preparation:</b> [CALC]	<b>Prepared:</b> 07/14/22 15:31		<b>Analyst:</b> jan		
Total Anions	5.9	0.13	meq/l	1	07/14/22	
Total Cations	5.5	0.12	meq/l	1	07/18/22	
Total hardness as CaCO3	180	3.3	mg/l	1	07/18/22	
<b>Method:</b> AWWA		<b>Instr:</b> ICPMS04				
<b>Batch ID:</b> W2G1263	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 07/19/22 17:48		<b>Analyst:</b> jol		
Aggressive Index	12.4		N/A	1	07/19/22	
<b>Method:</b> EPA 140.1		<b>Instr:</b> _ANALYST				
<b>Batch ID:</b> W2G0638	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 07/12/22 09:34		<b>Analyst:</b> ttf		
Threshold Odor Number	ND	1.0	T.O.N.	1	07/12/22 10:18	
<b>Method:</b> EPA 180.1		<b>Instr:</b> TURB01				
<b>Batch ID:</b> W2G0596	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 07/11/22 16:30		<b>Analyst:</b> VAT		
Turbidity	0.30	0.10	NTU	1	07/11/22 17:37	
<b>Method:</b> EPA 335.4		<b>Instr:</b> AA01				
<b>Batch ID:</b> W2G0788	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 07/13/22 10:23		<b>Analyst:</b> ism		
Cyanide, Total	ND	5.0	ug/l	1	07/14/22	
<b>Method:</b> EPA 353.2		<b>Instr:</b> AA01				
<b>Batch ID:</b> W2G0677	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 07/12/22 12:33		<b>Analyst:</b> ISM		
Nitrate as N	0.31	0.20	mg/l	1	07/12/22 15:28	
Nitrite as N	ND	0.10	mg/l	1	07/12/22 15:28	
<b>Method:</b> SM 2120B		<b>Instr:</b> _ANALYST				
<b>Batch ID:</b> W2G0598	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 07/11/22 17:05		<b>Analyst:</b> ces		
Color	ND	3.0	Color Units	1	07/11/22 17:45	
<b>Method:</b> SM 2320B		<b>Instr:</b> AA02				
<b>Batch ID:</b> W2G0579	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 07/11/22 15:16		<b>Analyst:</b> vat		

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08/02/2022 16:58

**Project Manager:** Charlene King

## Sample Results

(Continued)

Sample: Well 14 CA1910105\_016\_016  
2G06004-01 (Water)

Sampled: 07/11/22 11:05 by Allan Goldberg (wecklabs)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)</b>						
<b>Method:</b> SM 2320B				<b>Instr:</b> AA02		
<b>Batch ID:</b> W2G0579	<b>Preparation:</b> _NONE (WETCHEM)			<b>Prepared:</b> 07/11/22 15:16		<b>Analyst:</b> vat
Alkalinity as CaCO3	170	5.0	mg/l	1	07/11/22	
Bicarbonate Alkalinity as HCO3	200	6.1	mg/l	1	07/11/22	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/l	1	07/11/22	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/l	1	07/11/22	
<b>Method:</b> SM 2510B				<b>Instr:</b> AA02		
<b>Batch ID:</b> W2G0686	<b>Preparation:</b> _NONE (WETCHEM)			<b>Prepared:</b> 07/12/22 13:59		<b>Analyst:</b> vat
Specific Conductance (EC)	550	2.0	umhos/cm	1	07/12/22	
<b>Method:</b> SM 2540C				<b>Instr:</b> OVEN01		
<b>Batch ID:</b> W2G0934	<b>Preparation:</b> _NONE (WETCHEM)			<b>Prepared:</b> 07/14/22 16:09		<b>Analyst:</b> jao
Total Dissolved Solids	330	10	mg/l	1	07/15/22	
<b>Method:</b> SM 4500H+-B				<b>Instr:</b> AA02		
<b>Batch ID:</b> W2G0580	<b>Preparation:</b> _NONE (WETCHEM)			<b>Prepared:</b> 07/11/22 15:18		<b>Analyst:</b> vat
pH	8.00	0.10	pH Units	1	07/11/22 17:17	*
<b>Method:</b> SM 5540C				<b>Instr:</b> UVVIS04		
<b>Batch ID:</b> W2G0668	<b>Preparation:</b> _NONE (WETCHEM)			<b>Prepared:</b> 07/12/22 11:41		<b>Analyst:</b> UVVIS04
MBAS	ND	0.050	mg/l	1	07/12/22 17:30	
<b>Metals by EPA 200 Series Methods</b>						
<b>Method:</b> EPA 200.7				<b>Instr:</b> ICP03		
<b>Batch ID:</b> W2G0930	<b>Preparation:</b> EPA 200.2			<b>Prepared:</b> 07/14/22 15:31		<b>Analyst:</b> kvm
Calcium, Total	58	0.50	mg/l	1	07/18/22	
Copper, Total	ND	0.010	mg/l	1	07/18/22	
Iron, Total	0.070	0.030	mg/l	1	07/18/22	
Magnesium, Total	9.3	0.50	mg/l	1	07/18/22	
Manganese, Total	0.015	0.0050	mg/l	1	07/18/22	
Potassium, Total	3.1	0.50	mg/l	1	07/18/22	
Sodium, Total	40	1.0	mg/l	1	07/18/22	
Zinc, Total	ND	0.050	mg/l	1	07/18/22	
<b>Method:</b> EPA 200.8				<b>Instr:</b> ICPMS04		
<b>Batch ID:</b> W2G0932	<b>Preparation:</b> EPA 200.2			<b>Prepared:</b> 07/15/22 10:12		<b>Analyst:</b> jog
Aluminum, Total	28	20	ug/l	1	07/19/22	
Antimony, Total	ND	0.50	ug/l	1	07/19/22	
Arsenic, Total	12	0.40	ug/l	1	07/19/22	
Barium, Total	140	1.0	ug/l	1	07/19/22	
Beryllium, Total	ND	0.10	ug/l	1	07/19/22	
Cadmium, Total	ND	0.20	ug/l	1	07/19/22	
Chromium, Total	0.21	0.20	ug/l	1	07/19/22	

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## Sample Results

(Continued)

Sample: Well 14 CA1910105\_016\_016  
2G06004-01 (Water)

Sampled: 07/11/22 11:05 by Allan Goldberg (wecklabs)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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### Metals by EPA 200 Series Methods (Continued)

**Method:** EPA 200.8

**Instr:** ICPMS04

**Batch ID:** W2G0932

**Preparation:** EPA 200.2

**Prepared:** 07/15/22 10:12

**Analyst:** jog

Lead, Total	ND	0.20	ug/l	1	07/19/22	
Nickel, Total	ND	2.0	ug/l	1	07/19/22	
Selenium, Total	ND	0.40	ug/l	1	07/19/22	
Silver, Total	ND	0.20	ug/l	1	07/19/22	
Thallium, Total	ND	0.20	ug/l	1	07/19/22	

**Method:** EPA 245.1

**Instr:** HG03

**Batch ID:** W2G0671

**Preparation:** EPA 245.1

**Prepared:** 07/12/22 12:08

**Analyst:** KVM

Mercury, Total	ND	0.050	ug/l	1	07/13/22	
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### Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS

**Method:** EPA 537.1

**Instr:** LCMS06

**Batch ID:** W2G0765

**Preparation:** EPA 537/SPE

**Prepared:** 07/13/22 07:59

**Analyst:** jna

11CI-PF3OUdS	ND	2.0	ng/l	1	07/15/22	
9CI-PF3ONS	ND	2.0	ng/l	1	07/15/22	
ADONA	ND	2.0	ng/l	1	07/15/22	
EtFOSAA	ND	2.0	ng/l	1	07/15/22	
HFPO-DA	ND	2.0	ng/l	1	07/15/22	
MeFOSAA	ND	2.0	ng/l	1	07/15/22	
PFBS	ND	2.0	ng/l	1	07/15/22	
PFDA	ND	2.0	ng/l	1	07/15/22	
PFDoA	ND	2.0	ng/l	1	07/15/22	
PFHpA	ND	2.0	ng/l	1	07/15/22	
PFHxA	ND	2.0	ng/l	1	07/15/22	
PFHxS	ND	2.0	ng/l	1	07/15/22	
PFNA	ND	2.0	ng/l	1	07/15/22	
PFOA	ND	2.0	ng/l	1	07/15/22	
PFOS	ND	2.0	ng/l	1	07/15/22	
PFTeDA	ND	2.0	ng/l	1	07/15/22	
PFTrDA	ND	2.0	ng/l	1	07/15/22	
PFUnA	ND	2.0	ng/l	1	07/15/22	

#### Surrogate(s)

13C2-PFDA	102%	Conc: 37.8	70-130	07/15/22
13C2-PFHxA	105%	Conc: 38.7	70-130	07/15/22
d5-EtFOSAA	96%	Conc: 142	70-130	07/15/22
HFPO-DA-13C3	113%	Conc: 41.5	70-130	07/15/22

### Perchlorate by EPA 314.0

2G06004

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(Continued)

## Sample Results

Sample: Well 14 CA1910105\_016\_016  
2G06004-01 (Water)

Sampled: 07/11/22 11:05 by Allan Goldberg (wecklabs)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Perchlorate by EPA 314.0 (Continued)</b>						
<b>Method:</b> EPA 314.0		<b>Instr:</b> LC08_Channel1				
<b>Batch ID:</b> W2G0928	<b>Preparation:</b> _NONE (LC)	<b>Prepared:</b> 07/14/22 15:21		<b>Analyst:</b> cam		
Perchlorate	ND	2.0	ug/l	1	07/14/22	
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>						
<b>Method:</b> EPA 524.2		<b>Instr:</b> GCMS14				
<b>Batch ID:</b> W2G0554	<b>Preparation:</b> EPA 5030B	<b>Prepared:</b> 07/11/22 15:41		<b>Analyst:</b> cam		
Methylene chloride	ND	0.50	ug/l	1	07/16/22	
<i>Surrogate(s)</i>						
1,2-Dichlorobenzene-d4	109%	Conc: 10.9	70-130		07/16/22	
4-Bromofluorobenzene	110%	Conc: 11.0	70-130		07/16/22	

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## Sample Results

(Continued)

Sample: Well 14 CA1910105 FB  
2G06004-02 (Water)

Sampled: 07/11/22 0:00 by Allan Goldberg (wecklabs)

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

**Method:** EPA 537.1

**Instr:** LCMS06

**Batch ID:** W2G0765

**Preparation:** EPA 537/SPE

**Prepared:** 07/13/22 07:59

**Analyst:** jna

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
11CI-PF3OUdS	ND	2.0	ng/l	1	07/15/22	
9CI-PF3ONS	ND	2.0	ng/l	1	07/15/22	
ADONA	ND	2.0	ng/l	1	07/15/22	
EtFOSAA	ND	2.0	ng/l	1	07/15/22	
HFPO-DA	ND	2.0	ng/l	1	07/15/22	
MeFOSAA	ND	2.0	ng/l	1	07/15/22	
PFBS	ND	2.0	ng/l	1	07/15/22	
PFDA	ND	2.0	ng/l	1	07/15/22	
PFDoA	ND	2.0	ng/l	1	07/15/22	
PFHpA	ND	2.0	ng/l	1	07/15/22	
PFHxA	ND	2.0	ng/l	1	07/15/22	
PFHxS	ND	2.0	ng/l	1	07/15/22	
PFNA	ND	2.0	ng/l	1	07/15/22	
PFOA	ND	2.0	ng/l	1	07/15/22	
PFOS	ND	2.0	ng/l	1	07/15/22	
PFTeDA	ND	2.0	ng/l	1	07/15/22	
PFTTrDA	ND	2.0	ng/l	1	07/15/22	
PFUnA	ND	2.0	ng/l	1	07/15/22	

### Surrogate(s)

13C2-PFDA	101%	Conc: 37.8	70-130	07/15/22
13C2-PFHxA	108%	Conc: 40.5	70-130	07/15/22
d5-EtFOSAA	96%	Conc: 143	70-130	07/15/22
HFPO-DA-13C3	114%	Conc: 42.6	70-130	07/15/22

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**Project Manager:** Charlene King

## Sample Results

(Continued)

Sample: Well 15 Pre CA1910105\_025\_025  
2G06004-03 (Water) Sampled: 07/11/22 10:30 by Allan Goldberg (wecklabs)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

<b>Method:</b> EPA 353.2		<b>Instr:</b> AA01				
<b>Batch ID:</b> W2G0677	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 07/12/22 12:33	<b>Analyst:</b> ISM			
Nitrate as N	ND	0.20	mg/l	1	07/12/22 15:29	

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

<b>Method:</b> SRL 524M-TCP		<b>Instr:</b> GCMS04				
<b>Batch ID:</b> W2G0871	<b>Preparation:</b> EPA 5030B	<b>Prepared:</b> 07/14/22 06:52	<b>Analyst:</b> ADM			
1,2,3-Trichloropropane	ND	0.0050	ug/l	1	07/14/22	

### Metals by EPA 200 Series Methods

<b>Method:</b> EPA 200.8		<b>Instr:</b> ICPMS04				
<b>Batch ID:</b> W2G0932	<b>Preparation:</b> EPA 200.2	<b>Prepared:</b> 07/15/22 10:12	<b>Analyst:</b> jog			
Arsenic, Total	7.1	0.40	ug/l	1	07/19/22	
Manganese, Total	41	1.0	ug/l	1	07/19/22	

### Perchlorate by EPA 314.0

<b>Method:</b> EPA 314.0		<b>Instr:</b> LC08_Channel1				
<b>Batch ID:</b> W2G0928	<b>Preparation:</b> _NONE (LC)	<b>Prepared:</b> 07/14/22 15:21	<b>Analyst:</b> cam			
Perchlorate	ND	2.0	ug/l	1	07/14/22	

## Sample Results

(Continued)

Sample: Well 15 Effluent CA1910105\_027\_027  
2G06004-04 (Water) Sampled: 07/11/22 10:35 by Allan Goldberg (wecklabs)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

<b>Method:</b> EPA 353.2		<b>Instr:</b> AA01				
<b>Batch ID:</b> W2G0677	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 07/12/22 12:33	<b>Analyst:</b> ISM			
Nitrate as N	ND	0.20	mg/l	1	07/12/22 15:14	

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

<b>Method:</b> SRL 524M-TCP		<b>Instr:</b> GCMS04				
<b>Batch ID:</b> W2G0871	<b>Preparation:</b> EPA 5030B	<b>Prepared:</b> 07/14/22 06:52	<b>Analyst:</b> ADM			
1,2,3-Trichloropropane	ND	0.0050	ug/l	1	07/15/22	

### Metals by EPA 200 Series Methods

<b>Method:</b> EPA 200.8		<b>Instr:</b> ICPMS04				
<b>Batch ID:</b> W2G0932	<b>Preparation:</b> EPA 200.2	<b>Prepared:</b> 07/15/22 10:12	<b>Analyst:</b> jog			
Arsenic, Total	6.9	0.40	ug/l	1	07/19/22	
Manganese, Total	ND	1.0	ug/l	1	07/19/22	

### Perchlorate by EPA 314.0

<b>Method:</b> EPA 314.0		<b>Instr:</b> LC08_Channel1				
<b>Batch ID:</b> W2G0928	<b>Preparation:</b> _NONE (LC)	<b>Prepared:</b> 07/14/22 15:21	<b>Analyst:</b> cam			
Perchlorate	ND	2.0	ug/l	1	07/14/22	



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## Sample Results

(Continued)

Sample: Travel Blank  
 2G06004-05 (Water) Sampled: 07/11/22 0:00 by Allan Goldberg (wecklabs)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>						
<b>Method:</b> EPA 524.2		<b>Instr:</b> GCMS14				
<b>Batch ID:</b> W2G0554		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 07/11/22 15:41		<b>Analyst:</b> cam
Methylene chloride	ND	0.50	ug/l	1	07/16/22	
<i>Surrogate(s)</i>						
1,2-Dichlorobenzene-d4	117%	Conc: 11.7	70-130		07/16/22	
4-Bromofluorobenzene	116%	Conc: 11.6	70-130		07/16/22	

Water Replenishment District  
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08/02/2022 16:58

Project Manager: Charlene King

## Quality Control Results

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2G0763 - EPA 522</b>										
<b>Blank (W2G0763-BLK1)</b>										
Prepared: 07/13/22 Analyzed: 07/16/22										
1,4-Dioxane	ND	0.070	ug/l							
<i>Surrogate(s)</i>										
1,4-Dioxane-d8	7.80		ug/l	10.0		78	70-130			
<b>LCS (W2G0763-BS1)</b>										
Prepared: 07/13/22 Analyzed: 07/16/22										
1,4-Dioxane	0.0438	0.070	ug/l	0.0600		73	50-150			
<i>Surrogate(s)</i>										
1,4-Dioxane-d8	8.70		ug/l	10.0		87	70-130			
<b>LCS Dup (W2G0763-BSD1)</b>										
Prepared: 07/13/22 Analyzed: 07/16/22										
1,4-Dioxane	0.0369	0.070	ug/l	0.0600		61	50-150	17	30	
<i>Surrogate(s)</i>										
1,4-Dioxane-d8	8.83		ug/l	10.0		88	70-130			

## Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2G0775 - EPA 300.0</b>										
<b>Blank (W2G0775-BLK1)</b>										
Prepared & Analyzed: 07/13/22										
Chloride, Total	ND	0.50	mg/l							
Fluoride, Total	ND	0.10	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
<b>LCS (W2G0775-BS1)</b>										
Prepared & Analyzed: 07/13/22										
Chloride, Total	20.8	0.50	mg/l	20.0		104	90-110			
Fluoride, Total	2.02	0.10	mg/l	2.00		101	90-110			
Sulfate as SO4	21.1	0.50	mg/l	20.0		105	90-110			
<b>Matrix Spike (W2G0775-MS1)</b>										
Source: 2G12104-04 Prepared: 07/13/22 Analyzed: 07/14/22										
Chloride, Total	238	5.0	mg/l	200	28.0	105	76-118			
Fluoride, Total	20.6	1.0	mg/l	20.0	0.351	101	86-107			
Sulfate as SO4	264	5.0	mg/l	200	50.7	107	78-111			
<b>Matrix Spike (W2G0775-MS2)</b>										
Source: 2G12104-05 Prepared: 07/13/22 Analyzed: 07/14/22										
Chloride, Total	246	5.0	mg/l	200	31.9	107	76-118			
Fluoride, Total	21.0	1.0	mg/l	20.0	0.274	104	86-107			
Sulfate as SO4	273	5.0	mg/l	200	54.6	109	78-111			
<b>Matrix Spike Dup (W2G0775-MSD1)</b>										
Source: 2G12104-04 Prepared: 07/13/22 Analyzed: 07/14/22										
Chloride, Total	237	5.0	mg/l	200	28.0	105	76-118	0.1	20	
Fluoride, Total	20.6	1.0	mg/l	20.0	0.351	101	86-107	0.05	20	
Sulfate as SO4	264	5.0	mg/l	200	50.7	107	78-111	0.06	20	
<b>Matrix Spike Dup (W2G0775-MSD2)</b>										
Source: 2G12104-05 Prepared: 07/13/22 Analyzed: 07/14/22										
Chloride, Total	247	5.0	mg/l	200	31.9	108	76-118	0.5	20	
Fluoride, Total	21.0	1.0	mg/l	20.0	0.274	104	86-107	0.3	20	

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## Quality Control Results

Anions by IC, EPA Method 300.0 (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Qualifier
<b>Batch: W2G0775 - EPA 300.0 (Continued)</b>										
<b>Matrix Spike Dup (W2G0775-MSD2)</b>										
<b>Source: 2G12104-05</b>										
<b>Prepared: 07/13/22 Analyzed: 07/14/22</b>										
Sulfate as SO4	274	5.0	mg/l	200	54.6	110	78-111	0.3	20	

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## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2G0579 - SM 2320B</b>										
<b>Blank (W2G0579-BLK1)</b> Prepared & Analyzed: 07/11/22										
Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/l							
Bicarbonate Alkalinity as HCO <sub>3</sub>	ND	6.1	mg/l							
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/l							
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/l							
<b>LCS (W2G0579-BS1)</b> Prepared & Analyzed: 07/11/22										
Alkalinity as CaCO <sub>3</sub>	243	5.0	mg/l	250		97	94-108			
Bicarbonate Alkalinity as HCO <sub>3</sub>	297	6.1	mg/l	305		97	95-108			
<b>Duplicate (W2G0579-DUP1)</b> Source: 2F23007-01 Prepared & Analyzed: 07/11/22										
Alkalinity as CaCO <sub>3</sub>	178	5.0	mg/l		178			0.3	15	
Bicarbonate Alkalinity as HCO <sub>3</sub>	193	6.1	mg/l		192			0.7	15	
Carbonate Alkalinity as CaCO <sub>3</sub>	19.4	5.0	mg/l		21.0			8	200	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/l		ND				200	
<b>Batch: W2G0580 - SM 4500H+-B</b>										
<b>LCS (W2G0580-BS1)</b> Prepared & Analyzed: 07/11/22										
pH	9.21	0.10	pH Units	9.18		100	98.8-101			
<b>Duplicate (W2G0580-DUP1)</b> Source: 2F23007-01 Prepared & Analyzed: 07/11/22										
pH	8.70	0.10	pH Units		8.73			0.3	3.1	
<b>Batch: W2G0596 - EPA 180.1</b>										
<b>Blank (W2G0596-BLK1)</b> Prepared & Analyzed: 07/11/22										
Turbidity	ND	0.10	NTU							
<b>LCS (W2G0596-BS1)</b> Prepared & Analyzed: 07/11/22										
Turbidity	9.93	0.10	NTU	10.0		99	90-110			
<b>LCS (W2G0596-BS2)</b> Prepared & Analyzed: 07/11/22										
Turbidity	1.90	0.10	NTU	2.00		95	90-110			
<b>Duplicate (W2G0596-DUP1)</b> Source: 2G06004-01 Prepared & Analyzed: 07/11/22										
Turbidity	0.300	0.10	NTU		0.300			0	10	
<b>Batch: W2G0598 - SM 2120B</b>										
<b>LCS (W2G0598-BS1)</b> Prepared & Analyzed: 07/11/22										
Color	10.0	3.0	Color Units	10.0		100	95-105			
<b>Duplicate (W2G0598-DUP1)</b> Source: 2G11038-11 Prepared & Analyzed: 07/11/22										
Color	ND	3.0	Color Units		ND				10	
<b>Duplicate (W2G0598-DUP2)</b> Source: 2G11038-10 Prepared & Analyzed: 07/11/22										
Color	ND	3.0	Color Units		ND				10	
<b>Batch: W2G0638 - EPA 140.1</b>										
<b>Blank (W2G0638-BLK1)</b> Prepared & Analyzed: 07/12/22										
Threshold Odor Number	ND	1.0	T.O.N.							
<b>Duplicate (W2G0638-DUP1)</b> Source: 2G06004-01 Prepared & Analyzed: 07/12/22										

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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2G0638 - EPA 140.1 (Continued)</b>										
<b>Duplicate (W2G0638-DUP1)</b> Source: 2G06004-01 Prepared & Analyzed: 07/12/22										
Threshold Odor Number	1.0	1.0	T.O.N.		1.0			0	20	
<b>Batch: W2G0668 - SM 5540C</b>										
<b>Blank (W2G0668-BLK1)</b> Prepared & Analyzed: 07/12/22										
MBAS	ND	0.050	mg/l							
<b>LCS (W2G0668-BS1)</b> Prepared & Analyzed: 07/12/22										
MBAS	0.180	0.050	mg/l	0.200		90	82-115			
<b>Matrix Spike (W2G0668-MS1)</b> Source: 2G06004-01 Prepared & Analyzed: 07/12/22										
MBAS	0.196	0.050	mg/l	0.200	0.0165	90	74-123			
<b>Matrix Spike Dup (W2G0668-MSD1)</b> Source: 2G06004-01 Prepared & Analyzed: 07/12/22										
MBAS	0.205	0.050	mg/l	0.200	0.0165	94	74-123	4	20	
<b>Batch: W2G0677 - EPA 353.2</b>										
<b>Blank (W2G0677-BLK1)</b> Prepared & Analyzed: 07/12/22										
Nitrate as N	ND	0.15	mg/l							
Nitrite as N	ND	0.10	mg/l							
<b>LCS (W2G0677-BS1)</b> Prepared & Analyzed: 07/12/22										
Nitrate as N	1.04	0.15	mg/l	1.00		104	90-110			
Nitrite as N	1.05	0.10	mg/l	1.00		105	90-110			
<b>Matrix Spike (W2G0677-MS1)</b> Source: 2G06004-04 Prepared & Analyzed: 07/12/22										
Nitrate as N	2.06	0.15	mg/l	2.00	ND	103	90-110			
Nitrite as N	1.02	0.10	mg/l	1.00	ND	102	90-110			
<b>Matrix Spike (W2G0677-MS2)</b> Source: 2G11052-21 Prepared & Analyzed: 07/12/22										
Nitrate as N	5.82	0.15	mg/l	2.00	3.65	108	90-110			
Nitrite as N	1.05	0.10	mg/l	1.00	ND	105	90-110			
<b>Matrix Spike Dup (W2G0677-MSD1)</b> Source: 2G06004-04 Prepared & Analyzed: 07/12/22										
Nitrate as N	2.07	0.15	mg/l	2.00	ND	104	90-110	0.5	20	
Nitrite as N	1.03	0.10	mg/l	1.00	ND	103	90-110	1	20	
<b>Matrix Spike Dup (W2G0677-MSD2)</b> Source: 2G11052-21 Prepared & Analyzed: 07/12/22										
Nitrate as N	5.80	0.15	mg/l	2.00	3.65	108	90-110	0.3	20	
Nitrite as N	1.05	0.10	mg/l	1.00	ND	105	90-110	0	20	
<b>Batch: W2G0686 - SM 2510B</b>										
<b>Blank (W2G0686-BLK1)</b> Prepared & Analyzed: 07/12/22										
Specific Conductance (EC)	ND	2.0	umhos/cm							
<b>LCS (W2G0686-BS1)</b> Prepared & Analyzed: 07/12/22										
Specific Conductance (EC)	442	2.0	umhos/cm	445		99	95-105			
<b>Duplicate (W2G0686-DUP1)</b> Source: 2G01005-01 Prepared & Analyzed: 07/12/22										
Specific Conductance (EC)	644	2.0	umhos/cm	637				1	5	
<b>Batch: W2G0788 - EPA 335.4</b>										

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## Quality Control Results

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### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2G0788 - EPA 335.4 (Continued)</b>										
<b>Blank (W2G0788-BLK1)</b>										
Cyanide, Total	ND	5.0	ug/l							
				<b>Prepared: 07/13/22 Analyzed: 07/14/22</b>						
<b>LCS (W2G0788-BS1)</b>										
Cyanide, Total	103	5.0	ug/l	100		103	90-110			
				<b>Prepared: 07/13/22 Analyzed: 07/14/22</b>						
<b>Matrix Spike (W2G0788-MS1)</b>										
Cyanide, Total	206	5.0	ug/l	200	ND	103	90-110			
				<b>Prepared: 07/13/22 Analyzed: 07/14/22</b>						
<b>Matrix Spike Dup (W2G0788-MSD1)</b>										
Cyanide, Total	196	5.0	ug/l	200	ND	98	90-110	5	20	
<b>Batch: W2G0934 - SM 2540C</b>										
<b>Blank (W2G0934-BLK1)</b>										
Total Dissolved Solids	ND	10	mg/l							
				<b>Prepared: 07/14/22 Analyzed: 07/15/22</b>						
<b>LCS (W2G0934-BS1)</b>										
Total Dissolved Solids	829	10	mg/l	824		101	96-102			
				<b>Prepared: 07/14/22 Analyzed: 07/15/22</b>						
<b>Duplicate (W2G0934-DUP1)</b>										
Total Dissolved Solids	680	10	mg/l		692			2	10	
				<b>Prepared: 07/14/22 Analyzed: 07/15/22</b>						
<b>Duplicate (W2G0934-DUP2)</b>										
Total Dissolved Solids	539	10	mg/l		533			1	10	
				<b>Prepared: 07/14/22 Analyzed: 07/15/22</b>						

## 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	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2G0871 - SRL 524M-TCP</b>										
<b>Blank (W2G0871-BLK1)</b>										
1,2,3-Trichloropropane	ND	0.0050	ug/l							
				<b>Prepared &amp; Analyzed: 07/14/22</b>						
<b>LCS (W2G0871-BS1)</b>										
1,2,3-Trichloropropane	0.0214	0.0050	ug/l	0.0200		107	80-120			
				<b>Prepared &amp; Analyzed: 07/14/22</b>						
<b>LCS Dup (W2G0871-BSD1)</b>										
1,2,3-Trichloropropane	0.0219	0.0050	ug/l	0.0200		110	80-120	3	20	
				<b>Prepared &amp; Analyzed: 07/14/22</b>						
<b>Duplicate (W2G0871-DUP1)</b>										
1,2,3-Trichloropropane	ND	0.0050	ug/l		ND				20	
				<b>Prepared &amp; Analyzed: 07/14/22</b>						

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## Quality Control Results

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### Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2G0671 - EPA 245.1</b>										
<b>Blank (W2G0671-BLK1)</b>				<b>Prepared: 07/12/22 Analyzed: 07/13/22</b>						
Mercury, Total	ND	0.050	ug/l							
<b>LCS (W2G0671-BS1)</b>				<b>Prepared: 07/12/22 Analyzed: 07/13/22</b>						
Mercury, Total	1.10	0.050	ug/l	1.00		110	85-115			
<b>Matrix Spike (W2G0671-MS1)</b>				<b>Source: 2F17002-05 Prepared: 07/12/22 Analyzed: 07/13/22</b>						
Mercury, Total	1.09	0.050	ug/l	1.00	ND	109	70-130			
<b>Matrix Spike (W2G0671-MS2)</b>				<b>Source: 2G06004-01 Prepared: 07/12/22 Analyzed: 07/13/22</b>						
Mercury, Total	1.09	0.050	ug/l	1.00	ND	109	70-130			
<b>Matrix Spike Dup (W2G0671-MSD1)</b>				<b>Source: 2F17002-05 Prepared: 07/12/22 Analyzed: 07/13/22</b>						
Mercury, Total	1.00	0.050	ug/l	1.00	ND	100	70-130	8	20	
<b>Matrix Spike Dup (W2G0671-MSD2)</b>				<b>Source: 2G06004-01 Prepared: 07/12/22 Analyzed: 07/13/22</b>						
Mercury, Total	1.05	0.050	ug/l	1.00	ND	105	70-130	4	20	
<b>Batch: W2G0930 - EPA 200.7</b>										
<b>Blank (W2G0930-BLK1)</b>				<b>Prepared: 07/14/22 Analyzed: 07/18/22</b>						
Calcium, Total	ND	0.50	mg/l							
Copper, Total	ND	0.010	mg/l							
Iron, Total	ND	0.030	mg/l							
Magnesium, Total	ND	0.50	mg/l							
Manganese, Total	ND	0.0050	mg/l							
Potassium, Total	ND	0.50	mg/l							
Sodium, Total	ND	1.0	mg/l							
Zinc, Total	ND	0.050	mg/l							
<b>LCS (W2G0930-BS1)</b>				<b>Prepared: 07/14/22 Analyzed: 07/18/22</b>						
Calcium, Total	48.7	0.50	mg/l	50.2		97	85-115			
Copper, Total	0.195	0.010	mg/l	0.200		97	85-115			
Iron, Total	0.196	0.030	mg/l	0.200		98	85-115			
Magnesium, Total	48.4	0.50	mg/l	50.2		97	85-115			
Manganese, Total	0.187	0.0050	mg/l	0.200		94	85-115			
Potassium, Total	56.6	0.50	mg/l	52.0		109	85-115			
Sodium, Total	48.9	1.0	mg/l	50.2		97	85-115			
Zinc, Total	0.196	0.050	mg/l	0.200		98	85-115			
<b>Matrix Spike (W2G0930-MS1)</b>				<b>Source: 2G06004-01 Prepared: 07/14/22 Analyzed: 07/18/22</b>						
Calcium, Total	105	0.50	mg/l	50.2	57.6	94	70-130			
Copper, Total	0.199	0.010	mg/l	0.200	ND	99	70-130			
Iron, Total	0.271	0.030	mg/l	0.200	0.0704	100	70-130			
Magnesium, Total	58.1	0.50	mg/l	50.2	9.29	97	70-130			
Manganese, Total	0.204	0.0050	mg/l	0.200	0.0146	94	70-130			
Potassium, Total	62.0	0.50	mg/l	52.0	3.06	113	70-130			
Sodium, Total	91.1	1.0	mg/l	50.2	40.3	101	70-130			

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## Quality Control Results

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### Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2G0930 - EPA 200.7 (Continued)</b>										
<b>Matrix Spike (W2G0930-MS1)</b>			<b>Source: 2G06004-01</b>		<b>Prepared: 07/14/22 Analyzed: 07/18/22</b>					
Zinc, Total	0.198	0.050	mg/l	0.200	ND	99	70-130			
<b>Matrix Spike Dup (W2G0930-MSD1)</b>			<b>Source: 2G06004-01</b>		<b>Prepared: 07/14/22 Analyzed: 07/18/22</b>					
Calcium, Total	106	0.50	mg/l	50.2	57.6	97	70-130	1	30	
Copper, Total	0.199	0.010	mg/l	0.200	ND	99	70-130	0.2	30	
Iron, Total	0.274	0.030	mg/l	0.200	0.0704	102	70-130	1	30	
Magnesium, Total	58.3	0.50	mg/l	50.2	9.29	98	70-130	0.4	30	
Manganese, Total	0.204	0.0050	mg/l	0.200	0.0146	95	70-130	0.3	30	
Potassium, Total	61.3	0.50	mg/l	52.0	3.06	112	70-130	1	30	
Sodium, Total	92.0	1.0	mg/l	50.2	40.3	103	70-130	1	30	
Zinc, Total	0.198	0.050	mg/l	0.200	ND	99	70-130	0.1	30	
<b>Batch: W2G0932 - EPA 200.8</b>										
<b>Blank (W2G0932-BLK1)</b>			<b>Prepared: 07/15/22 Analyzed: 07/19/22</b>							
Aluminum, Total	ND	20	ug/l							
Antimony, Total	ND	0.50	ug/l							
Arsenic, Total	ND	0.40	ug/l							
Barium, Total	ND	1.0	ug/l							
Beryllium, Total	ND	0.10	ug/l							
Cadmium, Total	ND	0.20	ug/l							
Chromium, Total	ND	0.20	ug/l							
Lead, Total	ND	0.20	ug/l							
Manganese, Total	ND	1.0	ug/l							
Nickel, Total	ND	2.0	ug/l							
Selenium, Total	ND	0.40	ug/l							
Silver, Total	ND	0.20	ug/l							
Thallium, Total	ND	0.20	ug/l							
<b>LCS (W2G0932-BS1)</b>			<b>Prepared: 07/15/22 Analyzed: 07/19/22</b>							
Aluminum, Total	52.3	20	ug/l	50.0		105	85-115			
Antimony, Total	50.3	0.50	ug/l	50.0		101	85-115			
Arsenic, Total	53.2	0.40	ug/l	50.0		106	85-115			
Barium, Total	49.7	1.0	ug/l	50.0		99	85-115			
Beryllium, Total	49.6	0.10	ug/l	50.0		99	85-115			
Cadmium, Total	51.8	0.20	ug/l	50.0		104	85-115			
Chromium, Total	52.7	0.20	ug/l	50.0		105	85-115			
Lead, Total	50.3	0.20	ug/l	50.0		101	85-115			
Manganese, Total	52.1	1.0	ug/l	50.0		104	85-115			
Nickel, Total	51.8	2.0	ug/l	50.0		104	85-115			
Selenium, Total	51.5	0.40	ug/l	50.0		103	85-115			
Silver, Total	52.2	0.20	ug/l	50.0		104	85-115			



Water Replenishment District  
4040 Paramount Blvd.  
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**Project Number:** City of Paramount

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**Project Manager:** Charlene King

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2G0932 - EPA 200.8 (Continued)</b>										
<b>LCS (W2G0932-BS1)</b>										
<b>Prepared: 07/15/22 Analyzed: 07/19/22</b>										
Thallium, Total	50.0	0.20	ug/l	50.0		100	85-115			
<b>Matrix Spike (W2G0932-MS1)</b>										
<b>Source: 2G12170-01</b>										
<b>Prepared: 07/15/22 Analyzed: 07/19/22</b>										
Aluminum, Total	54.1	20	ug/l	50.0	4.89	98	70-130			
Antimony, Total	51.3	0.50	ug/l	50.0	ND	103	70-130			
Arsenic, Total	52.3	0.40	ug/l	50.0	0.959	103	70-130			
Barium, Total	97.6	1.0	ug/l	50.0	49.3	97	70-130			
Beryllium, Total	50.0	0.10	ug/l	50.0	ND	100	70-130			
Cadmium, Total	49.8	0.20	ug/l	50.0	ND	100	70-130			
Chromium, Total	53.7	0.20	ug/l	50.0	2.11	103	70-130			
Lead, Total	50.7	0.20	ug/l	50.0	1.25	99	70-130			
Manganese, Total	51.4	1.0	ug/l	50.0	1.59	100	70-130			
Nickel, Total	48.3	2.0	ug/l	50.0	0.499	96	70-130			
Selenium, Total	49.2	0.40	ug/l	50.0	0.822	97	70-130			
Silver, Total	50.1	0.20	ug/l	50.0	ND	100	70-130			
Thallium, Total	49.3	0.20	ug/l	50.0	ND	99	70-130			
<b>Matrix Spike Dup (W2G0932-MSD1)</b>										
<b>Source: 2G12170-01</b>										
<b>Prepared: 07/15/22 Analyzed: 07/19/22</b>										
Aluminum, Total	53.9	20	ug/l	50.0	4.89	98	70-130	0.4	30	
Antimony, Total	51.5	0.50	ug/l	50.0	ND	103	70-130	0.4	30	
Arsenic, Total	53.1	0.40	ug/l	50.0	0.959	104	70-130	2	30	
Barium, Total	98.7	1.0	ug/l	50.0	49.3	99	70-130	1	30	
Beryllium, Total	50.1	0.10	ug/l	50.0	ND	100	70-130	0.2	30	
Cadmium, Total	50.8	0.20	ug/l	50.0	ND	102	70-130	2	30	
Chromium, Total	54.0	0.20	ug/l	50.0	2.11	104	70-130	0.5	30	
Lead, Total	50.6	0.20	ug/l	50.0	1.25	99	70-130	0.2	30	
Manganese, Total	51.2	1.0	ug/l	50.0	1.59	99	70-130	0.3	30	
Nickel, Total	47.7	2.0	ug/l	50.0	0.499	94	70-130	1	30	
Selenium, Total	50.4	0.40	ug/l	50.0	0.822	99	70-130	2	30	
Silver, Total	50.6	0.20	ug/l	50.0	ND	101	70-130	1	30	
Thallium, Total	49.2	0.20	ug/l	50.0	ND	98	70-130	0.2	30	

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(Continued)

## Quality Control Results

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2G0765 - EPA 537.1</b>										
<b>Blank (W2G0765-BLK1)</b>										
<b>Prepared: 07/13/22 Analyzed: 07/15/22</b>										
11CI-PF3OUdS	ND	2.0	ng/l							
9CI-PF3ONS	ND	2.0	ng/l							
ADONA	ND	2.0	ng/l							
EtFOSAA	ND	2.0	ng/l							
HFPO-DA	ND	2.0	ng/l							
MeFOSAA	ND	2.0	ng/l							
PFBS	ND	2.0	ng/l							
PFDA	ND	2.0	ng/l							
PFDoA	ND	2.0	ng/l							
PFHpA	ND	2.0	ng/l							
PFHxA	ND	2.0	ng/l							
PFHxS	ND	2.0	ng/l							
PFNA	ND	2.0	ng/l							
PFOA	ND	2.0	ng/l							
PFOS	ND	2.0	ng/l							
PFTeDA	ND	2.0	ng/l							
PFTTrDA	ND	2.0	ng/l							
PFUnA	ND	2.0	ng/l							
<i>Surrogate(s)</i>										
13C2-PFDA	42.7		ng/l	40.0		107	70-130			
13C2-PFHxA	44.8		ng/l	40.0		112	70-130			
d5-EtFOSAA	146		ng/l	160		91	70-130			
HFPO-DA-13C3	46.1		ng/l	40.0		115	70-130			
<b>Blank (W2G0765-BLK2)</b>										
<b>Prepared: 07/13/22 Analyzed: 07/18/22</b>										
11CI-PF3OUdS	ND	2.0	ng/l							QC-2
9CI-PF3ONS	ND	2.0	ng/l							QC-2
ADONA	ND	2.0	ng/l							QC-2
EtFOSAA	ND	2.0	ng/l							QC-2
HFPO-DA	ND	2.0	ng/l							QC-2
MeFOSAA	ND	2.0	ng/l							QC-2
PFBS	ND	2.0	ng/l							QC-2
PFDA	ND	2.0	ng/l							QC-2
PFDoA	ND	2.0	ng/l							QC-2
PFHpA	ND	2.0	ng/l							QC-2
PFHxA	ND	2.0	ng/l							QC-2
PFHxS	ND	2.0	ng/l							QC-2
PFNA	ND	2.0	ng/l							QC-2
PFOA	ND	2.0	ng/l							QC-2
PFOS	ND	2.0	ng/l							QC-2

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**Project Manager:** Charlene King

## Quality Control Results

(Continued)

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
<b>Batch: W2G0765 - EPA 537.1 (Continued)</b>										
<b>Blank (W2G0765-BLK2)</b>										
Prepared: 07/13/22 Analyzed: 07/18/22										
PFTeDA	ND	2.0	ng/l							QC-2
PFTrDA	ND	2.0	ng/l							QC-2
PFUnA	ND	2.0	ng/l							QC-2
<i>Surrogate(s)</i>										
13C2-PFDA	42.0		ng/l	40.0		105	70-130			QC-2
13C2-PFHxA	44.0		ng/l	40.0		110	70-130			QC-2
d5-EtFOSAA	146		ng/l	160		91	70-130			QC-2
HFPO-DA-13C3	43.8		ng/l	40.0		109	70-130			QC-2
<b>LCS (W2G0765-BS1)</b>										
Prepared: 07/13/22 Analyzed: 07/15/22										
11CI-PF3OUdS	77.6	2.0	ng/l	80.0		97	70-130			
9CI-PF3ONS	80.8	2.0	ng/l	80.0		101	70-130			
ADONA	80.8	2.0	ng/l	80.0		101	70-130			
EtFOSAA	75.7	2.0	ng/l	80.0		95	70-130			
HFPO-DA	85.7	2.0	ng/l	80.0		107	70-130			
MeFOSAA	75.9	2.0	ng/l	80.0		95	70-130			
PFBS	82.7	2.0	ng/l	80.0		103	70-130			
PFDA	80.8	2.0	ng/l	80.0		101	70-130			
PFDoA	77.0	2.0	ng/l	80.0		96	70-130			
PFHpA	83.8	2.0	ng/l	80.0		105	70-130			
PFHxA	82.9	2.0	ng/l	80.0		104	70-130			
PFHxS	83.6	2.0	ng/l	80.0		105	70-130			
PFNA	82.9	2.0	ng/l	80.0		104	70-130			
PFOA	81.3	2.0	ng/l	80.0		102	70-130			
PFOS	81.6	2.0	ng/l	80.0		102	70-130			
PFTeDA	85.0	2.0	ng/l	80.0		106	70-130			
PFTrDA	84.4	2.0	ng/l	80.0		106	70-130			
PFUnA	78.0	2.0	ng/l	80.0		98	70-130			
<i>Surrogate(s)</i>										
13C2-PFDA	42.4		ng/l	40.0		106	70-130			
13C2-PFHxA	43.5		ng/l	40.0		109	70-130			
d5-EtFOSAA	154		ng/l	160		96	70-130			
HFPO-DA-13C3	45.2		ng/l	40.0		113	70-130			
<b>LCS (W2G0765-BS5)</b>										
Prepared: 07/13/22 Analyzed: 07/18/22										
11CI-PF3OUdS	77.1	2.0	ng/l	80.0		96	70-130			QC-2
9CI-PF3ONS	77.2	2.0	ng/l	80.0		96	70-130			QC-2
ADONA	79.2	2.0	ng/l	80.0		99	70-130			QC-2
EtFOSAA	75.5	2.0	ng/l	80.0		94	70-130			QC-2
HFPO-DA	77.4	2.0	ng/l	80.0		97	70-130			QC-2
MeFOSAA	74.7	2.0	ng/l	80.0		93	70-130			QC-2

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## Quality Control Results

(Continued)

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
<b>Batch: W2G0765 - EPA 537.1 (Continued)</b>										
<b>LCS (W2G0765-B55)</b>										
<b>Prepared: 07/13/22 Analyzed: 07/18/22</b>										
PFBS	81.0	2.0	ng/l	80.0	101	70-130				QC-2
PFDA	79.8	2.0	ng/l	80.0	100	70-130				QC-2
PFDoA	79.6	2.0	ng/l	80.0	100	70-130				QC-2
PFHpA	80.3	2.0	ng/l	80.0	100	70-130				QC-2
PFHxA	81.3	2.0	ng/l	80.0	102	70-130				QC-2
PFHxS	81.3	2.0	ng/l	80.0	102	70-130				QC-2
PFNA	80.2	2.0	ng/l	80.0	100	70-130				QC-2
PFOA	81.6	2.0	ng/l	80.0	102	70-130				QC-2
PFOS	80.8	2.0	ng/l	80.0	101	70-130				QC-2
PFTeDA	78.9	2.0	ng/l	80.0	99	70-130				QC-2
PFTTrDA	79.6	2.0	ng/l	80.0	100	70-130				QC-2
PFUnA	78.6	2.0	ng/l	80.0	98	70-130				QC-2
<i>Surrogate(s)</i>										
13C2-PFDA	41.4		ng/l	40.0	103	70-130				QC-2
13C2-PFHxA	43.0		ng/l	40.0	108	70-130				QC-2
d5-EtFOSAA	151		ng/l	160	95	70-130				QC-2
HFPO-DA-13C3	43.8		ng/l	40.0	109	70-130				QC-2
<b>LCS Dup (W2G0765-BSD1)</b>										
<b>Prepared: 07/13/22 Analyzed: 07/15/22</b>										
11CI-PF3OUdS	82.5	2.0	ng/l	80.0	103	70-130		6	30	
9CI-PF3ONS	84.0	2.0	ng/l	80.0	105	70-130		4	30	
ADONA	83.1	2.0	ng/l	80.0	104	70-130		3	30	
EtFOSAA	82.1	2.0	ng/l	80.0	103	70-130		8	30	
HFPO-DA	86.1	2.0	ng/l	80.0	108	70-130		0.4	30	
MeFOSAA	81.2	2.0	ng/l	80.0	102	70-130		7	30	
PFBS	85.8	2.0	ng/l	80.0	107	70-130		4	30	
PFDA	84.1	2.0	ng/l	80.0	105	70-130		4	30	
PFDoA	82.0	2.0	ng/l	80.0	103	70-130		6	30	
PFHpA	85.2	2.0	ng/l	80.0	106	70-130		2	30	
PFHxA	85.6	2.0	ng/l	80.0	107	70-130		3	30	
PFHxS	86.8	2.0	ng/l	80.0	108	70-130		4	30	
PFNA	86.5	2.0	ng/l	80.0	108	70-130		4	30	
PFOA	85.4	2.0	ng/l	80.0	107	70-130		5	30	
PFOS	85.3	2.0	ng/l	80.0	107	70-130		4	30	
PFTeDA	87.6	2.0	ng/l	80.0	109	70-130		3	30	
PFTTrDA	88.4	2.0	ng/l	80.0	111	70-130		5	30	
PFUnA	80.8	2.0	ng/l	80.0	101	70-130		3	30	
<i>Surrogate(s)</i>										
13C2-PFDA	40.6		ng/l	40.0	102	70-130				
13C2-PFHxA	42.7		ng/l	40.0	107	70-130				

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## Quality Control Results

(Continued)

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
<b>Batch: W2G0765 - EPA 537.1 (Continued)</b>										
<b>LCS Dup (W2G0765-BSD1)</b>										
<b>Prepared: 07/13/22 Analyzed: 07/15/22</b>										
<i>Surrogate(s)</i>										
d5-EtFOSAA	155		ng/l	160		97	70-130			
HFPO-DA-13C3	43.8		ng/l	40.0		109	70-130			
<b>LCS Dup (W2G0765-BSD5)</b>										
<b>Prepared: 07/13/22 Analyzed: 07/18/22</b>										
11Cl-PF3OUdS	78.7	2.0	ng/l	80.0		98	70-130	2	30	QC-2
9Cl-PF3ONS	80.9	2.0	ng/l	80.0		101	70-130	5	30	QC-2
ADONA	83.1	2.0	ng/l	80.0		104	70-130	5	30	QC-2
EtFOSAA	81.3	2.0	ng/l	80.0		102	70-130	7	30	QC-2
HFPO-DA	85.1	2.0	ng/l	80.0		106	70-130	9	30	QC-2
MeFOSAA	81.4	2.0	ng/l	80.0		102	70-130	9	30	QC-2
PFBS	83.6	2.0	ng/l	80.0		105	70-130	3	30	QC-2
PFDA	84.8	2.0	ng/l	80.0		106	70-130	6	30	QC-2
PFDoA	87.5	2.0	ng/l	80.0		109	70-130	9	30	QC-2
PFHpA	84.1	2.0	ng/l	80.0		105	70-130	5	30	QC-2
PFHxA	85.2	2.0	ng/l	80.0		107	70-130	5	30	QC-2
PFHxS	83.9	2.0	ng/l	80.0		105	70-130	3	30	QC-2
PFNA	85.0	2.0	ng/l	80.0		106	70-130	6	30	QC-2
PFOA	85.3	2.0	ng/l	80.0		107	70-130	4	30	QC-2
PFOS	83.7	2.0	ng/l	80.0		105	70-130	4	30	QC-2
PFTeDA	84.5	2.0	ng/l	80.0		106	70-130	7	30	QC-2
PFTrDA	83.8	2.0	ng/l	80.0		105	70-130	5	30	QC-2
PFUnA	83.6	2.0	ng/l	80.0		105	70-130	6	30	QC-2
<i>Surrogate(s)</i>										
13C2-PFDA	41.6		ng/l	40.0		104	70-130			QC-2
13C2-PFHxA	43.4		ng/l	40.0		108	70-130			QC-2
d5-EtFOSAA	153		ng/l	160		96	70-130			QC-2
HFPO-DA-13C3	43.2		ng/l	40.0		108	70-130			QC-2

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## Quality Control Results

(Continued)

Perchlorate by EPA 314.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2G0928 - EPA 314.0</b>										
<b>Blank (W2G0928-BLK1)</b>				<b>Prepared &amp; Analyzed: 07/14/22</b>						
Perchlorate	ND	2.0	ug/l							
<b>LCS (W2G0928-BS1)</b>				<b>Prepared &amp; Analyzed: 07/14/22</b>						
Perchlorate	9.98	2.0	ug/l	10.0		100	85-115			
<b>Matrix Spike (W2G0928-MS1)</b>				<b>Source: 2G06004-01</b>			<b>Prepared &amp; Analyzed: 07/14/22</b>			
Perchlorate	9.31	2.0	ug/l	10.0	ND	93	80-120			
<b>Matrix Spike Dup (W2G0928-MSD1)</b>				<b>Source: 2G06004-01</b>			<b>Prepared &amp; Analyzed: 07/14/22</b>			
Perchlorate	9.44	2.0	ug/l	10.0	ND	94	80-120	1	15	

## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2G0554 - EPA 524.2</b>										
<b>Blank (W2G0554-BLK1)</b>				<b>Prepared: 07/11/22 Analyzed: 07/15/22</b>						
Methylene chloride	ND	0.50	ug/l							
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	10.6		ug/l	10.0		106	70-130			
4-Bromofluorobenzene	10.6		ug/l	10.0		106	70-130			
<b>LCS (W2G0554-BS1)</b>				<b>Prepared: 07/11/22 Analyzed: 07/15/22</b>						
Methylene chloride	5.56	0.50	ug/l	5.00		111	70-130			
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	9.53		ug/l	10.0		95	70-130			
4-Bromofluorobenzene	9.66		ug/l	10.0		97	70-130			
<b>LCS Dup (W2G0554-BSD1)</b>				<b>Prepared: 07/11/22 Analyzed: 07/15/22</b>						
Methylene chloride	5.41	0.50	ug/l	5.00		108	70-130	3	30	
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	9.05		ug/l	10.0		91	70-130			
4-Bromofluorobenzene	9.07		ug/l	10.0		91	70-130			

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 Lakewood, CA 90712

**Project Number:** City of Paramount

**Project Manager:** Charlene King

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## Notes and Definitions

Item	Definition
*	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
%REC	Percent Recovery
Dil	Dilution
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	A result of ND for odor corresponds to No Odor Observed
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.



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CHAIN OF CUSTODY RECORD

2606004

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Work Order #

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CLIENT NAME: Water Replenishment District
PROJECT: City of Paramount
ADDRESS: 4040 Paramount Blvd, Lakewood, Ca 90712
PHONE: 562-921-5521
FAX:
EMAIL: cking@wrdd.org
PROJECT MANAGER: Charlene King
SAMPLER: Weck - Allan

SPECIAL HANDLING
Same Day Rush 150%
24 Hour Rush 100%
48-72 Hour Rush 75%
4 - 5 Day Rush 30%
Rush Extractions 50%
10 - 15 Business Days
QA/QC Data Package

Table with columns: WTX IDs, DATE SAMPLED, TIME SAMPLED, SMPL TYPE, SAMPLE IDENTIFICATION/SITE LOCATION, # OF CONT., EPA 524.2 Methylene Chloride, EPA 524M SRL 1,2,3-TCP, EPA 522- 1,4 Dioxane, EPA 537.1 PFOS/PFOAs, General Physical, General Minerals & Inorganics, EPA 314 Perchlorate, EPA 353.2 Nitrate, EPA 200.8 Mn, EPA 200.8 AS. Includes sample data for 3DEB1, 3DEB2, 3DEB3, and Travel Blank.

RELINQUISHED BY: [Signature] DATE / TIME: 7/11/22 1550 RECEIVED BY: [Signature] 07/11/22 1550
SAMPLE CONDITION: 2.3C TOL62
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

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
SPECIAL REQUIREMENTS / BILLING INFORMATION
Watertrax Uploaded Needed
Client agrees to Terms & Conditions at: www.wecklabs.com WTX: 20352