

**Work Orders:** 3G07022

**Report Date:** 8/21/2023

**Project:** City of Paramount

**Received Date:** 7/10/2023

**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 • ISO17025 ANAB #L2457.01 • 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 7/10/23 with the Chain-of-Custody document. The samples were received in good condition, at 3.2 °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

**Reported:**  
08/21/2023 09:38

**Project Manager:** Charlene King

## Sample Summary

| Sample Name  | Sampled By                | Lab ID     | Matrix | Sampled        | Qualifiers |
|--|---------------------------|------------|--------|----------------|------------|
| Well 14, RegID: CA1910105_016_016                  | Allan Goldberg (wecklabs) | 3G07022-01 | Water  | 07/10/23 10:35 |            |
| Well 14 - FRB, RegID: CA1910105_016_016            | Allan Goldberg (wecklabs) | 3G07022-02 | Water  | 07/10/23 00:00 |            |
| Well 15 (Pre), RegID: CA1910105_025_025            | Allan Goldberg (wecklabs) | 3G07022-03 | Water  | 07/10/23 11:00 |            |
| Well 15 (Pre) - FRB C, RegID: CA1910105_025_025    | Allan Goldberg (wecklabs) | 3G07022-04 | Water  | 07/10/23 00:00 |            |
| Well 15 (Effluent), RegID: CA1910105_027_027       | Allan Goldberg (wecklabs) | 3G07022-05 | Water  | 07/10/23 11:15 |            |
| Well 15 (Effluent) - FRB, RegID: CA1910105_027_027 | Allan Goldberg (wecklabs) | 3G07022-06 | Water  | 07/10/23 00:00 |            |
| Travel Blank                                       | Allan Goldberg (wecklabs) | 3G07022-07 | Water  | 07/10/23 00:00 |            |

## Analyses Accreditation Summary

| Analyte                 | CAS #       | Not By<br>NELAP | ANAB<br>ISO 17025 |
|-------------------------|-------------|-----------------|-------------------|
| <b>EPA 533 in Water</b> |             |                 |                   |
| 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   | ✓               |                   |
| 9Cl-PF3ONS              | 756426-58-1 | ✓               |                   |
| 8:2 FTS                 | 39108-34-4  | ✓               |                   |
| PFDA                    | 335-76-2    | ✓               |                   |
| PFOuA                   | 2058-94-8   | ✓               |                   |
| 11Cl-PF3OUdS            | 763051-92-9 | ✓               |                   |
| PFDoA                   | 307-55-1    | ✓               |                   |
| 13C4-PFBA               |             | ✓               |                   |
| 13C5-PFPeA              |             | ✓               |                   |
| 13C3-PFBS               |             | ✓               |                   |
| 13C2-4:2 FTS            |             | ✓               |                   |
| 13C5-PFHxA              |             | ✓               |                   |
| HFPO-DA-13C3            |             | ✓               |                   |
| 13C4-PFHpA              |             | ✓               |                   |
| 13C3-PFHxS              |             | ✓               |                   |

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## Analyses Accreditation Summary

(Continued)

| Analyte                             | CAS #   | Not By<br>NELAP | ANAB<br>ISO 17025 |
|-------------------------------------|---------|-----------------|-------------------|
| <b>EPA 533 in Water (Continued)</b> |         |                 |                   |
| 13C2-6:2 FTS                        |         | ✓               |                   |
| 13C8-PFOA                           |         | ✓               |                   |
| 13C9-PFNA                           |         | ✓               |                   |
| 13C8-PFOS                           |         | ✓               |                   |
| 13C2-8:2 FTS                        |         | ✓               |                   |
| 13C6-PFDA                           |         | ✓               |                   |
| 13C7-PFUnA                          |         | ✓               |                   |
| 13C2-PFDoA                          |         | ✓               |                   |
| <b>SRL 524M-TCP in Water</b>        |         |                 |                   |
| 1,2,3-Trichloropropane              | 96-18-4 | ✓               |                   |

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## Sample Results

Sample: Well 14, RegID: CA1910105\_016\_016  
3G07022-01 (Water)

Sampled: 07/10/23 10:35 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> W3G0805   | <b>Preparation:</b> EPA 522/SPE     | <b>Prepared:</b> 07/12/23 08:01 |       | <b>Analyst:</b> mld |                |           |
| 1,4-Dioxane  | 1.7                                 | 0.070                           | ug/l  | 1                   | 07/18/23       |           |
| <i>Surrogate(s)</i>  |                                     |                                 |       |                     |                |           |
| 1,4-Dioxane-d8   | 103% Conc: 9.94                     | 70-130                          |       |                     | 07/18/23       |           |
| <b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b> |                                     |                                 |       |                     |                |           |
| <b>Method:</b> EPA 353.2   |                                     | <b>Instr:</b> AA01              |       |                     |                |           |
| <b>Batch ID:</b> W3G0731   | <b>Preparation:</b> _NONE (WETCHEM) | <b>Prepared:</b> 07/11/23 14:05 |       | <b>Analyst:</b> ism |                |           |
| Nitrate as N   | 0.48                                | 0.20                            | mg/l  | 1                   | 07/11/23 17:45 |           |
| <b>Metals by EPA 200 Series Methods</b>                                    |                                     |                                 |       |                     |                |           |
| <b>Method:</b> EPA 200.8   |                                     | <b>Instr:</b> ICPMS04           |       |                     |                |           |
| <b>Batch ID:</b> W3G1164   | <b>Preparation:</b> EPA 200.2       | <b>Prepared:</b> 07/17/23 15:00 |       | <b>Analyst:</b> tyc |                |           |
| Manganese, Total   | 12                                  | 1.0                             | ug/l  | 1                   | 07/19/23       |           |
| <b>Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS</b>        |                                     |                                 |       |                     |                |           |
| <b>Method:</b> EPA 533   |                                     | <b>Instr:</b> LCMS06            |       |                     |                |           |
| <b>Batch ID:</b> W3H0158   | <b>Preparation:</b> EPA 533/SPE     | <b>Prepared:</b> 08/02/23 07:57 |       | <b>Analyst:</b> jna |                |           |
| 11CI-PF3OUdS   | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| 4:2 FTS  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| 6:2 FTS  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| 8:2 FTS  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| 9CI-PF3ONS   | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| ADONA  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| HFPO-DA  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| NFDHA  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFBA   | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFBS   | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFDA   | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFDoA  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFEESA   | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFHpA  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFHpS  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFHxA  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFHxS  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFMBA  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFMPA  | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFNA   | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFOA   | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |
| PFOS   | ND                                  | 1.7                             | ng/l  | 1                   | 08/04/23       |           |

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## Sample Results

(Continued)

Sample: Well 14, RegID: CA1910105\_016\_016  
3G07022-01 (Water)

Sampled: 07/10/23 10:35 by Allan Goldberg (wecklabs)

(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:** W3H0158

**Preparation:** EPA 533/SPE

**Prepared:** 08/02/23 07:57

**Analyst:** jna

|       |    |     |      |   |          |  |
|-------|----|-----|------|---|----------|--|
| PFPeA | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFPeS | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFOuA | ND | 1.7 | ng/l | 1 | 08/04/23 |  |

#### Surrogate(s)

|              |      |            |        |  |          |  |
|--------------|------|------------|--------|--|----------|--|
| 13C2-4:2 FTS | 100% | Conc: 34.1 | 50-200 |  | 08/04/23 |  |
| 13C2-6:2 FTS | 109% | Conc: 37.4 | 50-200 |  | 08/04/23 |  |
| 13C2-8:2 FTS | 120% | Conc: 40.9 | 50-200 |  | 08/04/23 |  |
| 13C2-PFDoA   | 88%  | Conc: 7.53 | 50-200 |  | 08/04/23 |  |
| 13C3-PFBS    | 121% | Conc: 10.4 | 50-200 |  | 08/04/23 |  |
| 13C3-PFHxS   | 117% | Conc: 10.0 | 50-200 |  | 08/04/23 |  |
| 13C4-PFBA    | 93%  | Conc: 7.92 | 50-200 |  | 08/04/23 |  |
| 13C4-PFHpA   | 94%  | Conc: 8.07 | 50-200 |  | 08/04/23 |  |
| 13C5-PFHxA   | 99%  | Conc: 8.43 | 50-200 |  | 08/04/23 |  |
| 13C5-PFPeA   | 100% | Conc: 8.54 | 50-200 |  | 08/04/23 |  |
| 13C6-PFDA    | 93%  | Conc: 8.00 | 50-200 |  | 08/04/23 |  |
| 13C7-PFOuA   | 91%  | Conc: 7.76 | 50-200 |  | 08/04/23 |  |
| 13C8-PFOA    | 91%  | Conc: 7.77 | 50-200 |  | 08/04/23 |  |
| 13C8-PFOS    | 105% | Conc: 9.03 | 50-200 |  | 08/04/23 |  |
| 13C9-PFNA    | 92%  | Conc: 7.91 | 50-200 |  | 08/04/23 |  |
| HFPO-DA-13C3 | 86%  | Conc: 7.39 | 50-200 |  | 08/04/23 |  |

### Perchlorate by EPA 314.0

**Method:** EPA 314.0

**Instr:** LC08\_Channel1

**Batch ID:** W3G1046

**Preparation:** \_NONE (LC)

**Prepared:** 07/14/23 09:27

**Analyst:** CLL

|             |    |     |      |   |          |  |
|-------------|----|-----|------|---|----------|--|
| Perchlorate | ND | 2.0 | ug/l | 1 | 07/15/23 |  |
|-------------|----|-----|------|---|----------|--|

### Volatile Organic Compounds by P&T and GC/MS

**Method:** EPA 524.2

**Instr:** GCMS14

**Batch ID:** W3G0942

**Preparation:** EPA 5030B

**Prepared:** 07/13/23 11:30

**Analyst:** cam

|                    |    |      |      |   |          |  |
|--------------------|----|------|------|---|----------|--|
| Methylene chloride | ND | 0.50 | ug/l | 1 | 07/14/23 |  |
|--------------------|----|------|------|---|----------|--|

#### Surrogate(s)

|                        |      |            |        |  |          |  |
|------------------------|------|------------|--------|--|----------|--|
| 1,2-Dichlorobenzene-d4 | 104% | Conc: 51.8 | 70-130 |  | 07/14/23 |  |
| 4-Bromofluorobenzene   | 99%  | Conc: 49.6 | 70-130 |  | 07/14/23 |  |

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**Project Manager:** Charlene King

## Sample Results

(Continued)

Sample: Well 14 - FRB, RegID: CA1910105\_016\_016  
3G07022-02 (Water)

Sampled: 07/10/23 0:00 by Allan Goldberg (wecklabs)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

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

Method: EPA 533

Instr: LCMS06

Batch ID: W3H0415

Preparation: EPA 533/SPE

Prepared: 08/04/23 08:49

Analyst: ajc

|              |    |     |      |   |          |  |
|--------------|----|-----|------|---|----------|--|
| 11CI-PF3OUdS | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| 4:2 FTS      | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| 6:2 FTS      | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| 8:2 FTS      | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| 9CI-PF3ONS   | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| ADONA        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| HFPO-DA      | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| NFDHA        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFBA         | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFBS         | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFDA         | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFDoA        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFEESA       | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFHpA        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFHpS        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFHxA        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFHxS        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFMBA        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFMPA        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFNA         | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFOA         | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFOS         | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFPeA        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFPeS        | ND | 1.8 | ng/l | 1 | 08/07/23 |  |
| PFOA         | ND | 1.8 | ng/l | 1 | 08/07/23 |  |

#### Surrogate(s)

|              |      |            |        |          |
|--------------|------|------------|--------|----------|
| 13C2-4:2 FTS | 104% | Conc: 37.3 | 50-200 | 08/07/23 |
| 13C2-6:2 FTS | 113% | Conc: 40.2 | 50-200 | 08/07/23 |
| 13C2-8:2 FTS | 115% | Conc: 41.2 | 50-200 | 08/07/23 |
| 13C2-PFDoA   | 88%  | Conc: 7.83 | 50-200 | 08/07/23 |
| 13C3-PFBS    | 124% | Conc: 11.0 | 50-200 | 08/07/23 |
| 13C3-PFHxS   | 118% | Conc: 10.6 | 50-200 | 08/07/23 |
| 13C4-PFBA    | 102% | Conc: 9.07 | 50-200 | 08/07/23 |
| 13C4-PFHpA   | 97%  | Conc: 8.67 | 50-200 | 08/07/23 |
| 13C5-PFHxA   | 100% | Conc: 8.93 | 50-200 | 08/07/23 |

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## Sample Results

(Continued)

Sample: Well 14 - FRB, RegID: CA1910105\_016\_016  
3G07022-02 (Water)

Sampled: 07/10/23 0:00 by Allan Goldberg (wecklabs)

(Continued)

| Analyte   | Result | MRL                             | Units                | Dil                             | Analyzed | Qualifier           |
|---|--------|---------------------------------|----------------------|---------------------------------|----------|---------------------|
| <b>Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)</b> |        |                                 |                      |                                 |          |                     |
| <b>Method:</b> EPA 533  |        |                                 | <b>Instr:</b> LCMS06 |                                 |          |                     |
| <b>Batch ID:</b> W3H0415  |        | <b>Preparation:</b> EPA 533/SPE |                      | <b>Prepared:</b> 08/04/23 08:49 |          | <b>Analyst:</b> ajc |
| 13C5-PFPeA  | 107%   | Conc: 9.55                      | 50-200               |                                 | 08/07/23 |                     |
| 13C6-PFDA   | 91%    | Conc: 8.15                      | 50-200               |                                 | 08/07/23 |                     |
| 13C7-PFUnA  | 90%    | Conc: 8.02                      | 50-200               |                                 | 08/07/23 |                     |
| 13C8-PFOA   | 97%    | Conc: 8.63                      | 50-200               |                                 | 08/07/23 |                     |
| 13C8-PFOS   | 112%   | Conc: 9.98                      | 50-200               |                                 | 08/07/23 |                     |
| 13C9-PFNA   | 94%    | Conc: 8.36                      | 50-200               |                                 | 08/07/23 |                     |
| HFPO-DA-13C3  | 94%    | Conc: 8.38                      | 50-200               |                                 | 08/07/23 |                     |

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## Sample Results

(Continued)

Sample: Well 15 (Pre), RegID: CA1910105\_025\_025  
3G07022-03 (Water)

Sampled: 07/10/23 11:00 by Allan Goldberg (wecklabs)

| Analyte  | Result                              | MRL    | Units | Dil                             | Analyzed       | Qualifier           |
|--|-------------------------------------|--------|-------|---------------------------------|----------------|---------------------|
| <b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b> |                                     |        |       |                                 |                |                     |
| <b>Method:</b> EPA 353.2   |                                     |        |       | <b>Instr:</b> AA01              |                |                     |
| <b>Batch ID:</b> W3G0731   | <b>Preparation:</b> _NONE (WETCHEM) |        |       | <b>Prepared:</b> 07/11/23 14:05 |                | <b>Analyst:</b> ism |
| Nitrate as N   | ND                                  | 0.20   | mg/l  | 1                               | 07/11/23 17:46 |                     |
| <b>Low Level 1,2,3-TCP by SRL Method, P&amp;T, GC/MS SIM</b>               |                                     |        |       |                                 |                |                     |
| <b>Method:</b> SRL 524M-TCP  |                                     |        |       | <b>Instr:</b> GCMS12            |                |                     |
| <b>Batch ID:</b> W3G0616   | <b>Preparation:</b> EPA 5030B       |        |       | <b>Prepared:</b> 07/11/23 07:15 |                | <b>Analyst:</b> ADM |
| 1,2,3-Trichloropropane   | ND                                  | 0.0050 | ug/l  | 1                               | 07/12/23       |                     |
| <b>Metals by EPA 200 Series Methods</b>                                    |                                     |        |       |                                 |                |                     |
| <b>Method:</b> EPA 200.8   |                                     |        |       | <b>Instr:</b> ICPMS04           |                |                     |
| <b>Batch ID:</b> W3G1164   | <b>Preparation:</b> EPA 200.2       |        |       | <b>Prepared:</b> 07/17/23 15:00 |                | <b>Analyst:</b> tyc |
| Arsenic, Total   | 7.8                                 | 0.50   | ug/l  | 1                               | 07/19/23       |                     |
| Manganese, Total   | 41                                  | 1.0    | ug/l  | 1                               | 07/19/23       |                     |
| <b>Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS</b>        |                                     |        |       |                                 |                |                     |
| <b>Method:</b> EPA 533   |                                     |        |       | <b>Instr:</b> LCMS06            |                |                     |
| <b>Batch ID:</b> W3H0158   | <b>Preparation:</b> EPA 533/SPE     |        |       | <b>Prepared:</b> 08/02/23 07:57 |                | <b>Analyst:</b> jna |
| 11CI-PF3OUdS   | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| 4:2 FTS  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| 6:2 FTS  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| 8:2 FTS  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| 9CI-PF3ONS   | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| ADONA  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| HFPO-DA  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| NFDHA  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFBA   | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFBS   | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFDA   | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFDoA  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFEESA   | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFHpA  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFHpS  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFHxA  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFHxS  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFMBA  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFMPA  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFNA   | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFOA   | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFOS   | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |
| PFPeA  | ND                                  | 1.7    | ng/l  | 1                               | 08/04/23       |                     |



Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Reported:**

08/21/2023 09:38

**Project Manager:** Charlene King

## Sample Results

(Continued)

Sample: Well 15 (Pre), RegID: CA1910105\_025\_025  
3G07022-03 (Water)

Sampled: 07/10/23 11:00 by Allan Goldberg (wecklabs)

(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:** W3H0158

**Preparation:** EPA 533/SPE

**Prepared:** 08/02/23 07:57

**Analyst:** jna

|       |    |     |      |   |          |  |
|-------|----|-----|------|---|----------|--|
| PFPeS | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFUnA | ND | 1.7 | ng/l | 1 | 08/04/23 |  |

#### Surrogate(s)

|              |      |            |        |  |          |  |
|--------------|------|------------|--------|--|----------|--|
| 13C2-4:2 FTS | 95%  | Conc: 32.5 | 50-200 |  | 08/04/23 |  |
| 13C2-6:2 FTS | 104% | Conc: 35.4 | 50-200 |  | 08/04/23 |  |
| 13C2-8:2 FTS | 119% | Conc: 40.5 | 50-200 |  | 08/04/23 |  |
| 13C2-PFDoA   | 92%  | Conc: 7.89 | 50-200 |  | 08/04/23 |  |
| 13C3-PFBS    | 121% | Conc: 10.3 | 50-200 |  | 08/04/23 |  |
| 13C3-PFHxS   | 110% | Conc: 9.37 | 50-200 |  | 08/04/23 |  |
| 13C4-PFBA    | 103% | Conc: 8.82 | 50-200 |  | 08/04/23 |  |
| 13C4-PFHpA   | 101% | Conc: 8.61 | 50-200 |  | 08/04/23 |  |
| 13C5-PFHxA   | 102% | Conc: 8.72 | 50-200 |  | 08/04/23 |  |
| 13C5-PFPeA   | 111% | Conc: 9.46 | 50-200 |  | 08/04/23 |  |
| 13C6-PFDA    | 97%  | Conc: 8.26 | 50-200 |  | 08/04/23 |  |
| 13C7-PFUnA   | 94%  | Conc: 8.04 | 50-200 |  | 08/04/23 |  |
| 13C8-PFOA    | 99%  | Conc: 8.46 | 50-200 |  | 08/04/23 |  |
| 13C8-PFOS    | 112% | Conc: 9.58 | 50-200 |  | 08/04/23 |  |
| 13C9-PFNA    | 97%  | Conc: 8.27 | 50-200 |  | 08/04/23 |  |
| HFPO-DA-13C3 | 94%  | Conc: 8.01 | 50-200 |  | 08/04/23 |  |

### Perchlorate by EPA 314.0

**Method:** EPA 314.0

**Instr:** LC08\_Channel1

**Batch ID:** W3G1046

**Preparation:** \_NONE (LC)

**Prepared:** 07/14/23 09:27

**Analyst:** CLL

|             |    |     |      |   |          |  |
|-------------|----|-----|------|---|----------|--|
| Perchlorate | ND | 2.0 | ug/l | 1 | 07/15/23 |  |
|-------------|----|-----|------|---|----------|--|

Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Reported:**  
08/21/2023 09:38

**Project Manager:** Charlene King

## Sample Results

(Continued)

Sample: Well 15 (Pre) - FRB C, RegID: CA1910105\_025\_025  
3G07022-04 (Water)

Sampled: 07/10/23 0:00 by Allan Goldberg (wecklabs)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

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

**Method:** EPA 533

**Instr:** LCMS06

**Batch ID:** W3H0415

**Preparation:** EPA 533/SPE

**Prepared:** 08/04/23 08:49

**Analyst:** ajc

|              |    |     |      |   |          |  |
|--------------|----|-----|------|---|----------|--|
| 11CI-PF3OUdS | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| 4:2 FTS      | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| 6:2 FTS      | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| 8:2 FTS      | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| 9CI-PF3ONS   | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| ADONA        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| HFPO-DA      | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| NFDHA        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFBA         | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFBS         | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFDA         | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFDoA        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFEESA       | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFHpA        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFHpS        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFHxA        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFHxS        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFMBA        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFMPA        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFNA         | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFOA         | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFOS         | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFPeA        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFPeS        | ND | 1.7 | ng/l | 1 | 08/07/23 |  |
| PFOA         | ND | 1.7 | ng/l | 1 | 08/07/23 |  |

*Surrogate(s)*

|              |      |            |        |          |
|--------------|------|------------|--------|----------|
| 13C2-4:2 FTS | 99%  | Conc: 32.9 | 50-200 | 08/07/23 |
| 13C2-6:2 FTS | 110% | Conc: 36.5 | 50-200 | 08/07/23 |
| 13C2-8:2 FTS | 113% | Conc: 37.4 | 50-200 | 08/07/23 |
| 13C2-PFDoA   | 79%  | Conc: 6.57 | 50-200 | 08/07/23 |
| 13C3-PFBS    | 117% | Conc: 9.73 | 50-200 | 08/07/23 |
| 13C3-PFHxS   | 117% | Conc: 9.74 | 50-200 | 08/07/23 |
| 13C4-PFBA    | 94%  | Conc: 7.85 | 50-200 | 08/07/23 |
| 13C4-PFHpA   | 91%  | Conc: 7.56 | 50-200 | 08/07/23 |
| 13C5-PFHxA   | 93%  | Conc: 7.75 | 50-200 | 08/07/23 |

Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Reported:**  
08/21/2023 09:38

**Project Manager:** Charlene King

## Sample Results

(Continued)

Sample: Well 15 (Pre) - FRB C, RegID: CA1910105\_025\_025  
3G07022-04 (Water)

Sampled: 07/10/23 0:00 by Allan Goldberg (wecklabs)

(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:** W3H0415

**Preparation:** EPA 533/SPE

**Prepared:** 08/04/23 08:49

**Analyst:** ajc

|              |      |            |        |  |          |  |
|--------------|------|------------|--------|--|----------|--|
| 13C5-PFPeA   | 99%  | Conc: 8.26 | 50-200 |  | 08/07/23 |  |
| 13C6-PFDA    | 86%  | Conc: 7.14 | 50-200 |  | 08/07/23 |  |
| 13C7-PFUnA   | 82%  | Conc: 6.80 | 50-200 |  | 08/07/23 |  |
| 13C8-PFOA    | 89%  | Conc: 7.39 | 50-200 |  | 08/07/23 |  |
| 13C8-PFOS    | 114% | Conc: 9.44 | 50-200 |  | 08/07/23 |  |
| 13C9-PFNA    | 86%  | Conc: 7.18 | 50-200 |  | 08/07/23 |  |
| HFPO-DA-13C3 | 87%  | Conc: 7.25 | 50-200 |  | 08/07/23 |  |

Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Reported:**

08/21/2023 09:38

**Project Manager:** Charlene King

## Sample Results

(Continued)

Sample: Well 15 (Effluent), RegID: CA1910105\_027\_027  
3G07022-05 (Water)

Sampled: 07/10/23 11:15 by Allan Goldberg (wecklabs)

| Analyte  | Result                              | MRL    | Units | Dil                             | Analyzed       | Qualifier           |
|--|-------------------------------------|--------|-------|---------------------------------|----------------|---------------------|
| <b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b> |                                     |        |       |                                 |                |                     |
| <b>Method:</b> EPA 353.2   |                                     |        |       | <b>Instr:</b> AA01              |                |                     |
| <b>Batch ID:</b> W3G0731   | <b>Preparation:</b> _NONE (WETCHEM) |        |       | <b>Prepared:</b> 07/11/23 14:05 |                | <b>Analyst:</b> ism |
| Nitrate as N   | ND                                  | 0.20   | mg/l  | 1                               | 07/11/23 17:47 |                     |
| <b>Low Level 1,2,3-TCP by SRL Method, P&amp;T, GC/MS SIM</b>               |                                     |        |       |                                 |                |                     |
| <b>Method:</b> SRL 524M-TCP  |                                     |        |       | <b>Instr:</b> GCMS12            |                |                     |
| <b>Batch ID:</b> W3G0616   | <b>Preparation:</b> EPA 5030B       |        |       | <b>Prepared:</b> 07/11/23 07:15 |                | <b>Analyst:</b> ADM |
| 1,2,3-Trichloropropane   | ND                                  | 0.0050 | ug/l  | 1                               | 07/12/23       |                     |
| <b>Metals by EPA 200 Series Methods</b>                                    |                                     |        |       |                                 |                |                     |
| <b>Method:</b> EPA 200.8   |                                     |        |       | <b>Instr:</b> ICPMS04           |                |                     |
| <b>Batch ID:</b> W3G1164   | <b>Preparation:</b> EPA 200.2       |        |       | <b>Prepared:</b> 07/17/23 15:00 |                | <b>Analyst:</b> tyc |
| Arsenic, Total   | 7.9                                 | 0.50   | ug/l  | 1                               | 07/19/23       |                     |
| Manganese, Total   | ND                                  | 1.0    | ug/l  | 1                               | 07/19/23       |                     |
| <b>Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS</b>        |                                     |        |       |                                 |                |                     |
| <b>Method:</b> EPA 533   |                                     |        |       | <b>Instr:</b> LCMS06            |                |                     |
| <b>Batch ID:</b> W3H0158   | <b>Preparation:</b> EPA 533/SPE     |        |       | <b>Prepared:</b> 08/02/23 07:57 |                | <b>Analyst:</b> jna |
| 11CI-PF3OUdS   | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| 4:2 FTS  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| 6:2 FTS  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| 8:2 FTS  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| 9CI-PF3ONS   | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| ADONA  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| HFPO-DA  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| NFDHA  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFBA   | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFBS   | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFDA   | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFDoA  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFEESA   | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFHpA  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFHpS  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFHxA  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFHxS  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFMBA  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFMPA  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFNA   | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFOA   | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFOS   | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |
| PFPeA  | ND                                  | 1.8    | ng/l  | 1                               | 08/04/23       |                     |

Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Reported:**

08/21/2023 09:38

**Project Manager:** Charlene King

## Sample Results

(Continued)

Sample: Well 15 (Effluent), RegID: CA1910105\_027\_027  
3G07022-05 (Water)

Sampled: 07/10/23 11:15 by Allan Goldberg (wecklabs)

(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:** W3H0158

**Preparation:** EPA 533/SPE

**Prepared:** 08/02/23 07:57

**Analyst:** jna

|       |    |     |      |   |          |  |
|-------|----|-----|------|---|----------|--|
| PFPeS | ND | 1.8 | ng/l | 1 | 08/04/23 |  |
| PFUnA | ND | 1.8 | ng/l | 1 | 08/04/23 |  |

#### Surrogate(s)

|              |      |            |        |  |          |  |
|--------------|------|------------|--------|--|----------|--|
| 13C2-4:2 FTS | 113% | Conc: 40.7 | 50-200 |  | 08/04/23 |  |
| 13C2-6:2 FTS | 114% | Conc: 41.0 | 50-200 |  | 08/04/23 |  |
| 13C2-8:2 FTS | 126% | Conc: 45.5 | 50-200 |  | 08/04/23 |  |
| 13C2-PFDoA   | 91%  | Conc: 8.18 | 50-200 |  | 08/04/23 |  |
| 13C3-PFBS    | 120% | Conc: 10.8 | 50-200 |  | 08/04/23 |  |
| 13C3-PFHxS   | 115% | Conc: 10.3 | 50-200 |  | 08/04/23 |  |
| 13C4-PFBA    | 95%  | Conc: 8.56 | 50-200 |  | 08/04/23 |  |
| 13C4-PFHpA   | 93%  | Conc: 8.42 | 50-200 |  | 08/04/23 |  |
| 13C5-PFHxA   | 95%  | Conc: 8.54 | 50-200 |  | 08/04/23 |  |
| 13C5-PFPeA   | 100% | Conc: 9.00 | 50-200 |  | 08/04/23 |  |
| 13C6-PFDA    | 91%  | Conc: 8.20 | 50-200 |  | 08/04/23 |  |
| 13C7-PFUnA   | 91%  | Conc: 8.24 | 50-200 |  | 08/04/23 |  |
| 13C8-PFOA    | 91%  | Conc: 8.22 | 50-200 |  | 08/04/23 |  |
| 13C8-PFOS    | 110% | Conc: 9.93 | 50-200 |  | 08/04/23 |  |
| 13C9-PFNA    | 92%  | Conc: 8.26 | 50-200 |  | 08/04/23 |  |
| HFPO-DA-13C3 | 80%  | Conc: 7.25 | 50-200 |  | 08/04/23 |  |

### Perchlorate by EPA 314.0

**Method:** EPA 314.0

**Instr:** LC08\_Channel1

**Batch ID:** W3G1046

**Preparation:** \_NONE (LC)

**Prepared:** 07/14/23 09:27

**Analyst:** CLL

|             |    |     |      |   |          |  |
|-------------|----|-----|------|---|----------|--|
| Perchlorate | ND | 2.0 | ug/l | 1 | 07/15/23 |  |
|-------------|----|-----|------|---|----------|--|

Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Reported:**  
08/21/2023 09:38

**Project Manager:** Charlene King

## Sample Results

(Continued)

Sample: Well 15 (Effluent) - FRB, RegID: CA1910105\_027\_027  
3G07022-06 (Water)

Sampled: 07/10/23 0:00 by Allan Goldberg (wecklabs)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

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

**Method:** EPA 533

**Instr:** LCMS06

**Batch ID:** W3H0158

**Preparation:** EPA 533/SPE

**Prepared:** 08/02/23 07:57

**Analyst:** jna

|              |    |     |      |   |          |  |
|--------------|----|-----|------|---|----------|--|
| 11CI-PF3OUdS | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| 4:2 FTS      | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| 6:2 FTS      | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| 8:2 FTS      | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| 9CI-PF3ONS   | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| ADONA        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| HFPO-DA      | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| NFDHA        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFBA         | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFBS         | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFDA         | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFDoA        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFEESA       | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFHpA        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFHpS        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFHxA        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFHxS        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFMBA        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFMPA        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFNA         | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFOA         | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFOS         | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFPeA        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFPeS        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |
| PFUnA        | ND | 1.7 | ng/l | 1 | 08/04/23 |  |

*Surrogate(s)*

|              |      |            |        |          |
|--------------|------|------------|--------|----------|
| 13C2-4:2 FTS | 106% | Conc: 36.6 | 50-200 | 08/04/23 |
| 13C2-6:2 FTS | 112% | Conc: 38.4 | 50-200 | 08/04/23 |
| 13C2-8:2 FTS | 116% | Conc: 40.0 | 50-200 | 08/04/23 |
| 13C2-PFDoA   | 109% | Conc: 9.34 | 50-200 | 08/04/23 |
| 13C3-PFBS    | 122% | Conc: 10.4 | 50-200 | 08/04/23 |
| 13C3-PFHxS   | 114% | Conc: 9.76 | 50-200 | 08/04/23 |
| 13C4-PFBA    | 110% | Conc: 9.46 | 50-200 | 08/04/23 |
| 13C4-PFHpA   | 108% | Conc: 9.26 | 50-200 | 08/04/23 |
| 13C5-PFHxA   | 112% | Conc: 9.61 | 50-200 | 08/04/23 |

Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Reported:**  
08/21/2023 09:38

**Project Manager:** Charlene King

## Sample Results

(Continued)

Sample: Well 15 (Effluent) - FRB, RegID: CA1910105\_027\_027  
3G07022-06 (Water) Sampled: 07/10/23 0:00 by Allan Goldberg (wecklabs)

(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: W3H0158 | Preparation: EPA 533/SPE | Prepared: 08/02/23 07:57 | Analyst: jna |
| 13C5-PFPeA        | 115% Conc: 9.87          | 50-200                   | 08/04/23     |
| 13C6-PFDA         | 112% Conc: 9.59          | 50-200                   | 08/04/23     |
| 13C7-PFUnA        | 108% Conc: 9.29          | 50-200                   | 08/04/23     |
| 13C8-PFOA         | 109% Conc: 9.39          | 50-200                   | 08/04/23     |
| 13C8-PFOS         | 105% Conc: 9.05          | 50-200                   | 08/04/23     |
| 13C9-PFNA         | 114% Conc: 9.78          | 50-200                   | 08/04/23     |
| HFPO-DA-13C3      | 104% Conc: 8.97          | 50-200                   | 08/04/23     |

## Sample Results

(Continued)

Sample: Travel Blank Sampled: 07/10/23 0:00 by Allan Goldberg (wecklabs)  
3G07022-07 (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: W3G0942      | Preparation: EPA 5030B | Prepared: 07/13/23 11:30 | Analyst: cam |
| Methylene chloride     | ND                     | 0.50 ug/l                | 1 07/14/23   |
| <i>Surrogate(s)</i>    |                        |                          |              |
| 1,2-Dichlorobenzene-d4 | 87% Conc: 43.7         | 70-130                   | 07/14/23     |
| 4-Bromofluorobenzene   | 85% Conc: 42.4         | 70-130                   | 07/14/23     |

Water Replenishment District  
4040 Paramount Blvd.  
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**Reported:**

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**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: W3G0805 - EPA 522</b>       |        |       |       |             |               |      |        |     |       |           |
| <b>Blank (W3G0805-BLK1)</b>           |        |       |       |             |               |      |        |     |       |           |
| 1,4-Dioxane                           | ND     | 0.070 | ug/l  |             |               |      |        |     |       |           |
| Prepared: 07/12/23 Analyzed: 07/18/23 |        |       |       |             |               |      |        |     |       |           |
| <i>Surrogate(s)</i>                   |        |       |       |             |               |      |        |     |       |           |
| 1,4-Dioxane-d8                        | 10.4   |       | ug/l  | 10.0        |               | 104  | 70-130 |     |       |           |
| <b>LCS (W3G0805-BS1)</b>              |        |       |       |             |               |      |        |     |       |           |
| 1,4-Dioxane                           | 0.0471 | 0.070 | ug/l  | 0.0600      |               | 79   | 50-150 |     |       |           |
| Prepared: 07/12/23 Analyzed: 07/18/23 |        |       |       |             |               |      |        |     |       |           |
| <i>Surrogate(s)</i>                   |        |       |       |             |               |      |        |     |       |           |
| 1,4-Dioxane-d8                        | 9.36   |       | ug/l  | 10.0        |               | 94   | 70-130 |     |       |           |
| <b>LCS Dup (W3G0805-BSD1)</b>         |        |       |       |             |               |      |        |     |       |           |
| 1,4-Dioxane                           | 0.0687 | 0.070 | ug/l  | 0.0600      |               | 114  | 50-150 | 37  | 50    |           |
| Prepared: 07/12/23 Analyzed: 07/18/23 |        |       |       |             |               |      |        |     |       |           |
| <i>Surrogate(s)</i>                   |        |       |       |             |               |      |        |     |       |           |
| 1,4-Dioxane-d8                        | 11.1   |       | ug/l  | 10.0        |               | 111  | 70-130 |     |       |           |

## Quality Control Results

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

| Analyte  | Result | MRL  | Units | Spike Level | Source Result | %REC | Limits | RPD | Limit | Qualifier |
|--|--------|------|-------|-------------|---------------|------|--------|-----|-------|-----------|
| <b>Batch: W3G0731 - EPA 353.2</b>                |        |      |       |             |               |      |        |     |       |           |
| <b>Blank (W3G0731-BLK1)</b>                      |        |      |       |             |               |      |        |     |       |           |
| Nitrate as N                                     | ND     | 0.20 | mg/l  |             |               |      |        |     |       |           |
| Prepared & Analyzed: 07/11/23                    |        |      |       |             |               |      |        |     |       |           |
| <b>LCS (W3G0731-BS1)</b>                         |        |      |       |             |               |      |        |     |       |           |
| Nitrate as N                                     | 1.02   | 0.20 | mg/l  | 1.00        |               | 102  | 90-110 |     |       |           |
| Prepared & Analyzed: 07/11/23                    |        |      |       |             |               |      |        |     |       |           |
| <b>Matrix Spike (W3G0731-MS1)</b>                |        |      |       |             |               |      |        |     |       |           |
| Nitrate as N                                     | 2.03   | 0.20 | mg/l  | 2.00        | ND            | 102  | 90-110 |     |       |           |
| Source: 3F30018-01 Prepared & Analyzed: 07/11/23 |        |      |       |             |               |      |        |     |       |           |
| <b>Matrix Spike (W3G0731-MS2)</b>                |        |      |       |             |               |      |        |     |       |           |
| Nitrate as N                                     | 3.10   | 0.20 | mg/l  | 2.00        | 1.08          | 101  | 90-110 |     |       |           |
| Source: 3F30018-02 Prepared & Analyzed: 07/11/23 |        |      |       |             |               |      |        |     |       |           |
| <b>Matrix Spike Dup (W3G0731-MSD1)</b>           |        |      |       |             |               |      |        |     |       |           |
| Nitrate as N                                     | 2.03   | 0.20 | mg/l  | 2.00        | ND            | 102  | 90-110 | 0   | 20    |           |
| Source: 3F30018-01 Prepared & Analyzed: 07/11/23 |        |      |       |             |               |      |        |     |       |           |
| <b>Matrix Spike Dup (W3G0731-MSD2)</b>           |        |      |       |             |               |      |        |     |       |           |
| Nitrate as N                                     | 3.10   | 0.20 | mg/l  | 2.00        | 1.08          | 101  | 90-110 | 0   | 20    |           |
| Source: 3F30018-02 Prepared & Analyzed: 07/11/23 |        |      |       |             |               |      |        |     |       |           |



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## 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 | Limit | Qualifier |
|---------------------------------------|--------|--------|-------|-------------|---------------|------|--------|-----|-------|-----------|
| <b>Batch: W3G0616 - SRL 524M-TCP</b>  |        |        |       |             |               |      |        |     |       |           |
| <b>Blank (W3G0616-BLK1)</b>           |        |        |       |             |               |      |        |     |       |           |
| Prepared: 07/11/23 Analyzed: 07/12/23 |        |        |       |             |               |      |        |     |       |           |
| 1,2,3-Trichloropropane                | ND     | 0.0050 | ug/l  |             |               |      |        |     |       |           |
| <b>LCS (W3G0616-BS1)</b>              |        |        |       |             |               |      |        |     |       |           |
| Prepared & Analyzed: 07/11/23         |        |        |       |             |               |      |        |     |       |           |
| 1,2,3-Trichloropropane                | 0.0210 | 0.0050 | ug/l  | 0.0200      |               | 105  | 80-120 |     |       |           |
| <b>LCS Dup (W3G0616-BSD1)</b>         |        |        |       |             |               |      |        |     |       |           |
| Prepared: 07/11/23 Analyzed: 07/12/23 |        |        |       |             |               |      |        |     |       |           |
| 1,2,3-Trichloropropane                | 0.0213 | 0.0050 | ug/l  | 0.0200      |               | 106  | 80-120 | 1   | 20    |           |
| <b>Duplicate (W3G0616-DUP1)</b>       |        |        |       |             |               |      |        |     |       |           |
| Source: 3G05012-01                    |        |        |       |             |               |      |        |     |       |           |
| Prepared: 07/11/23 Analyzed: 07/12/23 |        |        |       |             |               |      |        |     |       |           |
| 1,2,3-Trichloropropane                | ND     | 0.0050 | ug/l  |             | ND            |      |        |     | 20    |           |

## Quality Control Results

(Continued)

Metals by EPA 200 Series Methods

| Analyte                                | Result | MRL  | Units | Spike Level | Source Result | %REC | Limits | RPD | Limit | Qualifier |
|--|--------|------|-------|-------------|---------------|------|--------|-----|-------|-----------|
| <b>Batch: W3G1164 - EPA 200.8</b>      |        |      |       |             |               |      |        |     |       |           |
| <b>Blank (W3G1164-BLK1)</b>            |        |      |       |             |               |      |        |     |       |           |
| Prepared: 07/17/23 Analyzed: 07/19/23  |        |      |       |             |               |      |        |     |       |           |
| Arsenic, Total                         | ND     | 0.50 | ug/l  |             |               |      |        |     |       |           |
| Manganese, Total                       | ND     | 1.0  | ug/l  |             |               |      |        |     |       |           |
| <b>LCS (W3G1164-BS1)</b>               |        |      |       |             |               |      |        |     |       |           |
| Prepared: 07/17/23 Analyzed: 07/19/23  |        |      |       |             |               |      |        |     |       |           |
| Arsenic, Total                         | 52.8   | 0.50 | ug/l  | 50.0        |               | 106  | 85-115 |     |       |           |
| Manganese, Total                       | 51.4   | 1.0  | ug/l  | 50.0        |               | 103  | 85-115 |     |       |           |
| <b>Matrix Spike (W3G1164-MS1)</b>      |        |      |       |             |               |      |        |     |       |           |
| Source: 3F22003-01                     |        |      |       |             |               |      |        |     |       |           |
| Prepared: 07/17/23 Analyzed: 07/19/23  |        |      |       |             |               |      |        |     |       |           |
| Arsenic, Total                         | 57.7   | 0.50 | ug/l  | 50.0        | 0.378         | 115  | 70-130 |     |       |           |
| Manganese, Total                       | 49.1   | 1.0  | ug/l  | 50.0        | 0.524         | 97   | 70-130 |     |       |           |
| <b>Matrix Spike Dup (W3G1164-MSD1)</b> |        |      |       |             |               |      |        |     |       |           |
| Source: 3F22003-01                     |        |      |       |             |               |      |        |     |       |           |
| Prepared: 07/17/23 Analyzed: 07/19/23  |        |      |       |             |               |      |        |     |       |           |
| Arsenic, Total                         | 59.0   | 0.50 | ug/l  | 50.0        | 0.378         | 117  | 70-130 | 2   | 30    |           |
| Manganese, Total                       | 49.2   | 1.0  | ug/l  | 50.0        | 0.524         | 97   | 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: W3H0158 - EPA 533</b>              |        |     |       |             |               |      |        |     |           |           |
| <b>Blank (W3H0158-BLK1)</b>                  |        |     |       |             |               |      |        |     |           |           |
| <b>Prepared: 08/02/23 Analyzed: 08/04/23</b> |        |     |       |             |               |      |        |     |           |           |
| 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  |             |               |      |        |     |           |           |
| PFOA   | ND     | 2.0 | ng/l  |             |               |      |        |     |           |           |
| <b>Surrogate(s)</b>                          |        |     |       |             |               |      |        |     |           |           |
| 13C2-4:2 FTS                                 | 44.4   |     | ng/l  | 40.0        |               | 111  | 50-200 |     |           |           |
| 13C2-6:2 FTS                                 | 44.9   |     | ng/l  | 40.0        |               | 112  | 50-200 |     |           |           |
| 13C2-8:2 FTS                                 | 46.5   |     | ng/l  | 40.0        |               | 116  | 50-200 |     |           |           |
| 13C2-PFDoA                                   | 10.9   |     | ng/l  | 10.0        |               | 109  | 50-200 |     |           |           |
| 13C3-PFBS                                    | 11.8   |     | ng/l  | 10.0        |               | 118  | 50-200 |     |           |           |
| 13C3-PFHxS                                   | 10.9   |     | ng/l  | 10.0        |               | 109  | 50-200 |     |           |           |
| 13C4-PFBA                                    | 11.1   |     | ng/l  | 10.0        |               | 111  | 50-200 |     |           |           |
| 13C4-PFHpA                                   | 10.8   |     | ng/l  | 10.0        |               | 108  | 50-200 |     |           |           |
| 13C5-PFHxA                                   | 11.1   |     | ng/l  | 10.0        |               | 111  | 50-200 |     |           |           |
| 13C5-PFPeA                                   | 11.3   |     | ng/l  | 10.0        |               | 113  | 50-200 |     |           |           |
| 13C6-PFDA                                    | 11.1   |     | ng/l  | 10.0        |               | 111  | 50-200 |     |           |           |
| 13C7-PFOA                                    | 10.8   |     | ng/l  | 10.0        |               | 108  | 50-200 |     |           |           |
| 13C8-PFOA                                    | 11.0   |     | ng/l  | 10.0        |               | 110  | 50-200 |     |           |           |

B-02

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

Reported:  
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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: W3H0158 - EPA 533 (Continued)</b>  |        |     |       |             |               |      |        |     |           |           |
| <b>Blank (W3H0158-BLK1)</b>                  |        |     |       |             |               |      |        |     |           |           |
| <b>Prepared: 08/02/23 Analyzed: 08/04/23</b> |        |     |       |             |               |      |        |     |           |           |
| <i>Surrogate(s)</i>                          |        |     |       |             |               |      |        |     |           |           |
| 13C8-PFOS                                    | 10.8   |     | ng/l  | 10.0        |               | 108  | 50-200 |     |           |           |
| 13C9-PFNA                                    | 11.2   |     | ng/l  | 10.0        |               | 112  | 50-200 |     |           |           |
| HFPO-DA-13C3                                 | 10.3   |     | ng/l  | 10.0        |               | 103  | 50-200 |     |           |           |
| <b>LCS (W3H0158-BS1)</b>                     |        |     |       |             |               |      |        |     |           |           |
| <b>Prepared: 08/02/23 Analyzed: 08/04/23</b> |        |     |       |             |               |      |        |     |           |           |
| 11CI-PF3OUdS                                 | 2.10   | 2.0 | ng/l  | 2.00        |               | 105  | 50-150 |     |           |           |
| 4:2 FTS                                      | 2.30   | 2.0 | ng/l  | 2.00        |               | 115  | 50-150 |     |           |           |
| 6:2 FTS                                      | 1.95   | 2.0 | ng/l  | 2.00        |               | 97   | 50-150 |     |           |           |
| 8:2 FTS                                      | 2.04   | 2.0 | ng/l  | 2.00        |               | 102  | 50-150 |     |           |           |
| 9CI-PF3ONS                                   | 2.18   | 2.0 | ng/l  | 2.00        |               | 109  | 50-150 |     |           |           |
| ADONA  | 2.08   | 2.0 | ng/l  | 2.00        |               | 104  | 50-150 |     |           |           |
| HFPO-DA                                      | 2.34   | 2.0 | ng/l  | 2.00        |               | 117  | 50-150 |     |           |           |
| NFDHA  | 1.95   | 2.0 | ng/l  | 2.00        |               | 98   | 50-150 |     |           |           |
| PFBA   | 2.22   | 2.0 | ng/l  | 2.00        |               | 111  | 50-150 |     |           |           |
| PFBS   | 1.87   | 2.0 | ng/l  | 2.00        |               | 94   | 50-150 |     |           |           |
| PFDA   | 1.93   | 2.0 | ng/l  | 2.00        |               | 96   | 50-150 |     |           |           |
| PFDaA  | 1.99   | 2.0 | ng/l  | 2.00        |               | 99   | 50-150 |     |           |           |
| PFEESA                                       | 2.32   | 2.0 | ng/l  | 2.00        |               | 116  | 50-150 |     |           |           |
| PFHpA  | 2.40   | 2.0 | ng/l  | 2.00        |               | 120  | 50-150 |     |           |           |
| PFHpS  | 2.16   | 2.0 | ng/l  | 2.00        |               | 108  | 50-150 |     |           |           |
| PFHxA  | 2.28   | 2.0 | ng/l  | 2.00        |               | 114  | 50-150 |     |           |           |
| PFHxS  | 2.26   | 2.0 | ng/l  | 2.00        |               | 113  | 50-150 |     |           |           |
| PFMBA  | 2.17   | 2.0 | ng/l  | 2.00        |               | 109  | 50-150 |     |           |           |
| PFMPA  | 1.74   | 2.0 | ng/l  | 2.00        |               | 87   | 50-150 |     |           |           |
| PFNA   | 1.68   | 2.0 | ng/l  | 2.00        |               | 84   | 50-150 |     |           |           |
| PFOA   | 2.11   | 2.0 | ng/l  | 2.00        |               | 105  | 50-150 |     |           |           |
| PFOS   | 2.15   | 2.0 | ng/l  | 2.00        |               | 107  | 50-150 |     |           |           |
| PFPeA  | 3.31   | 2.0 | ng/l  | 2.00        |               | 166  | 50-150 |     |           | Q-ME      |
| PFPeS  | 2.15   | 2.0 | ng/l  | 2.00        |               | 107  | 50-150 |     |           |           |
| PFUnA  | 1.89   | 2.0 | ng/l  | 2.00        |               | 94   | 50-150 |     |           |           |
| <i>Surrogate(s)</i>                          |        |     |       |             |               |      |        |     |           |           |
| 13C2-4:2 FTS                                 | 42.0   |     | ng/l  | 40.0        |               | 105  | 50-200 |     |           |           |
| 13C2-6:2 FTS                                 | 44.6   |     | ng/l  | 40.0        |               | 112  | 50-200 |     |           |           |
| 13C2-8:2 FTS                                 | 47.7   |     | ng/l  | 40.0        |               | 119  | 50-200 |     |           |           |
| 13C2-PFDoA                                   | 10.2   |     | ng/l  | 10.0        |               | 102  | 50-200 |     |           |           |
| 13C3-PFBS                                    | 11.1   |     | ng/l  | 10.0        |               | 111  | 50-200 |     |           |           |
| 13C3-PFHxS                                   | 10.7   |     | ng/l  | 10.0        |               | 107  | 50-200 |     |           |           |
| 13C4-PFBA                                    | 9.92   |     | ng/l  | 10.0        |               | 99   | 50-200 |     |           |           |
| 13C4-PFHpA                                   | 9.72   |     | ng/l  | 10.0        |               | 97   | 50-200 |     |           |           |

Water Replenishment District  
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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: W3H0158 - EPA 533 (Continued)</b> |        |     |       |             |                                       |             |     |           |           |
| <b>LCS (W3H0158-BS1)</b>                    |        |     |       |             |                                       |             |     |           |           |
|   |        |     |       |             | Prepared: 08/02/23 Analyzed: 08/04/23 |             |     |           |           |
| <i>Surrogate(s)</i>                         |        |     |       |             |                                       |             |     |           |           |
| 13C5-PFHxA                                  | 10.3   |     | ng/l  | 10.0        | 103                                   | 50-200      |     |           |           |
| 13C5-PFPeA                                  | 10.2   |     | ng/l  | 10.0        | 102                                   | 50-200      |     |           |           |
| 13C6-PFDA                                   | 10.4   |     | ng/l  | 10.0        | 104                                   | 50-200      |     |           |           |
| 13C7-PFUnA                                  | 10.3   |     | ng/l  | 10.0        | 103                                   | 50-200      |     |           |           |
| 13C8-PFOA                                   | 9.77   |     | ng/l  | 10.0        | 98                                    | 50-200      |     |           |           |
| 13C8-PFOS                                   | 10.4   |     | ng/l  | 10.0        | 104                                   | 50-200      |     |           |           |
| 13C9-PFNA                                   | 10.0   |     | ng/l  | 10.0        | 100                                   | 50-200      |     |           |           |
| HFPO-DA-13C3                                | 8.57   |     | ng/l  | 10.0        | 86                                    | 50-200      |     |           |           |
| <b>LCS Dup (W3H0158-BSD1)</b>               |        |     |       |             |                                       |             |     |           |           |
|   |        |     |       |             | Prepared: 08/02/23 Analyzed: 08/04/23 |             |     |           |           |
| 11CI-PF3OUdS                                | 2.11   | 2.0 | ng/l  | 2.00        | 105                                   | 50-150      | 0.4 | 30        |           |
| 4:2 FTS                                     | 1.90   | 2.0 | ng/l  | 2.00        | 95                                    | 50-150      | 19  | 30        |           |
| 6:2 FTS                                     | 2.02   | 2.0 | ng/l  | 2.00        | 101                                   | 50-150      | 4   | 30        |           |
| 8:2 FTS                                     | 2.05   | 2.0 | ng/l  | 2.00        | 103                                   | 50-150      | 0.5 | 30        |           |
| 9CI-PF3ONS                                  | 2.15   | 2.0 | ng/l  | 2.00        | 108                                   | 50-150      | 1   | 30        |           |
| ADONA                                       | 1.81   | 2.0 | ng/l  | 2.00        | 91                                    | 50-150      | 13  | 30        |           |
| HFPO-DA                                     | 2.03   | 2.0 | ng/l  | 2.00        | 101                                   | 50-150      | 14  | 30        |           |
| NFDHA                                       | 1.83   | 2.0 | ng/l  | 2.00        | 91                                    | 50-150      | 6   | 30        |           |
| PFBA  | 2.06   | 2.0 | ng/l  | 2.00        | 103                                   | 50-150      | 8   | 30        |           |
| PFBS  | 1.61   | 2.0 | ng/l  | 2.00        | 80                                    | 50-150      | 15  | 30        |           |
| PFDA  | 1.98   | 2.0 | ng/l  | 2.00        | 99                                    | 50-150      | 3   | 30        |           |
| PFDoA                                       | 1.46   | 2.0 | ng/l  | 2.00        | 73                                    | 50-150      | 31  | 30        | Q-12      |
| PFEESA                                      | 2.00   | 2.0 | ng/l  | 2.00        | 100                                   | 50-150      | 15  | 30        |           |
| PFHpA                                       | 1.96   | 2.0 | ng/l  | 2.00        | 98                                    | 50-150      | 20  | 30        |           |
| PFHpS                                       | 2.21   | 2.0 | ng/l  | 2.00        | 110                                   | 50-150      | 2   | 30        |           |
| PFHxA                                       | 2.00   | 2.0 | ng/l  | 2.00        | 100                                   | 50-150      | 13  | 30        |           |
| PFHxS                                       | 2.12   | 2.0 | ng/l  | 2.00        | 106                                   | 50-150      | 6   | 30        |           |
| PFMBA                                       | 1.94   | 2.0 | ng/l  | 2.00        | 97                                    | 50-150      | 12  | 30        |           |
| PFMPA                                       | 1.60   | 2.0 | ng/l  | 2.00        | 80                                    | 50-150      | 9   | 30        |           |
| PFNA  | 1.95   | 2.0 | ng/l  | 2.00        | 98                                    | 50-150      | 15  | 30        |           |
| PFOA  | 1.80   | 2.0 | ng/l  | 2.00        | 90                                    | 50-150      | 16  | 30        |           |
| PFOS  | 2.24   | 2.0 | ng/l  | 2.00        | 112                                   | 50-150      | 4   | 30        |           |
| PFPeA                                       | 3.12   | 2.0 | ng/l  | 2.00        | 156                                   | 50-150      | 6   | 30        | Q-ME      |
| PFPeS                                       | 1.87   | 2.0 | ng/l  | 2.00        | 93                                    | 50-150      | 14  | 30        |           |
| PFUnA                                       | 1.91   | 2.0 | ng/l  | 2.00        | 96                                    | 50-150      | 1   | 30        |           |
| <i>Surrogate(s)</i>                         |        |     |       |             |                                       |             |     |           |           |
| 13C2-4:2 FTS                                | 43.5   |     | ng/l  | 40.0        | 109                                   | 50-200      |     |           |           |
| 13C2-6:2 FTS                                | 44.9   |     | ng/l  | 40.0        | 112                                   | 50-200      |     |           |           |
| 13C2-8:2 FTS                                | 47.6   |     | ng/l  | 40.0        | 119                                   | 50-200      |     |           |           |

Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Reported:**  
08/21/2023 09:38

**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: W3H0158 - EPA 533 (Continued)</b>  |        |     |       |             |               |      |        |     |           |           |
| <b>LCS Dup (W3H0158-BSD1)</b>                |        |     |       |             |               |      |        |     |           |           |
| <b>Prepared: 08/02/23 Analyzed: 08/04/23</b> |        |     |       |             |               |      |        |     |           |           |
| <i>Surrogate(s)</i>                          |        |     |       |             |               |      |        |     |           |           |
| 13C2-PFDoA                                   | 9.08   |     | ng/l  | 10.0        |               | 91   | 50-200 |     |           |           |
| 13C3-PFBS                                    | 12.1   |     | ng/l  | 10.0        |               | 121  | 50-200 |     |           |           |
| 13C3-PFHxS                                   | 11.0   |     | ng/l  | 10.0        |               | 110  | 50-200 |     |           |           |
| 13C4-PFBA                                    | 9.14   |     | ng/l  | 10.0        |               | 91   | 50-200 |     |           |           |
| 13C4-PFHpA                                   | 9.10   |     | ng/l  | 10.0        |               | 91   | 50-200 |     |           |           |
| 13C5-PFHxA                                   | 9.22   |     | ng/l  | 10.0        |               | 92   | 50-200 |     |           |           |
| 13C5-PFPeA                                   | 9.63   |     | ng/l  | 10.0        |               | 96   | 50-200 |     |           |           |
| 13C6-PFDA                                    | 8.87   |     | ng/l  | 10.0        |               | 89   | 50-200 |     |           |           |
| 13C7-PFUhA                                   | 8.70   |     | ng/l  | 10.0        |               | 87   | 50-200 |     |           |           |
| 13C8-PFOA                                    | 9.01   |     | ng/l  | 10.0        |               | 90   | 50-200 |     |           |           |
| 13C8-PFOS                                    | 10.3   |     | ng/l  | 10.0        |               | 103  | 50-200 |     |           |           |
| 13C9-PFNA                                    | 8.71   |     | ng/l  | 10.0        |               | 87   | 50-200 |     |           |           |
| HFPO-DA-13C3                                 | 7.75   |     | ng/l  | 10.0        |               | 77   | 50-200 |     |           |           |

**Batch: W3H0415 - EPA 533**

|  |    |     |      |  |  |  |  |  |  |  |
|--|----|-----|------|--|--|--|--|--|--|--|
| <b>Blank (W3H0415-BLK1)</b>                  |    |     |      |  |  |  |  |  |  |  |
| <b>Prepared: 08/04/23 Analyzed: 08/07/23</b> |    |     |      |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |

B-02

Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Reported:**  
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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: W3H0415 - EPA 533 (Continued)</b>  |        |     |       |             |               |      |        |     |           |           |
| <b>Blank (W3H0415-BLK1)</b>                  |        |     |       |             |               |      |        |     |           |           |
| <b>Prepared: 08/04/23 Analyzed: 08/07/23</b> |        |     |       |             |               |      |        |     |           |           |
| PFPeS  | ND     | 2.0 | ng/l  |             |               |      |        |     |           |           |
| PFUnA  | ND     | 2.0 | ng/l  |             |               |      |        |     |           |           |
| <i>Surrogate(s)</i>                          |        |     |       |             |               |      |        |     |           |           |
| 13C2-4:2 FTS                                 | 42.3   |     | ng/l  | 40.0        |               | 106  | 50-200 |     |           |           |
| 13C2-6:2 FTS                                 | 43.4   |     | ng/l  | 40.0        |               | 108  | 50-200 |     |           |           |
| 13C2-8:2 FTS                                 | 43.9   |     | ng/l  | 40.0        |               | 110  | 50-200 |     |           |           |
| 13C2-PFDoA                                   | 10.7   |     | ng/l  | 10.0        |               | 107  | 50-200 |     |           |           |
| 13C3-PFBS                                    | 12.3   |     | ng/l  | 10.0        |               | 123  | 50-200 |     |           |           |
| 13C3-PFHxS                                   | 11.6   |     | ng/l  | 10.0        |               | 116  | 50-200 |     |           |           |
| 13C4-PFBA                                    | 11.4   |     | ng/l  | 10.0        |               | 114  | 50-200 |     |           |           |
| 13C4-PFHpA                                   | 11.3   |     | ng/l  | 10.0        |               | 113  | 50-200 |     |           |           |
| 13C5-PFHxA                                   | 11.2   |     | ng/l  | 10.0        |               | 112  | 50-200 |     |           |           |
| 13C5-PFPeA                                   | 11.8   |     | ng/l  | 10.0        |               | 118  | 50-200 |     |           |           |
| 13C6-PFDA                                    | 11.3   |     | ng/l  | 10.0        |               | 113  | 50-200 |     |           |           |
| 13C7-PFUnA                                   | 11.2   |     | ng/l  | 10.0        |               | 112  | 50-200 |     |           |           |
| 13C8-PFOA                                    | 11.3   |     | ng/l  | 10.0        |               | 113  | 50-200 |     |           |           |
| 13C8-PFOS                                    | 11.5   |     | ng/l  | 10.0        |               | 115  | 50-200 |     |           |           |
| 13C9-PFNA                                    | 11.2   |     | ng/l  | 10.0        |               | 112  | 50-200 |     |           |           |
| HFPO-DA-13C3                                 | 10.4   |     | ng/l  | 10.0        |               | 104  | 50-200 |     |           |           |
| <b>LCS (W3H0415-BS1)</b>                     |        |     |       |             |               |      |        |     |           |           |
| <b>Prepared: 08/04/23 Analyzed: 08/07/23</b> |        |     |       |             |               |      |        |     |           |           |
| 11CI-PF3OUdS                                 | 15.7   | 2.0 | ng/l  | 20.0        |               | 79   | 70-130 |     |           |           |
| 4:2 FTS                                      | 16.7   | 2.0 | ng/l  | 20.0        |               | 83   | 70-130 |     |           |           |
| 6:2 FTS                                      | 17.4   | 2.0 | ng/l  | 20.0        |               | 87   | 70-130 |     |           |           |
| 8:2 FTS                                      | 16.1   | 2.0 | ng/l  | 20.0        |               | 81   | 70-130 |     |           |           |
| 9CI-PF3ONS                                   | 17.9   | 2.0 | ng/l  | 20.0        |               | 90   | 70-130 |     |           |           |
| ADONA  | 16.3   | 2.0 | ng/l  | 20.0        |               | 81   | 70-130 |     |           |           |
| HFPO-DA                                      | 17.7   | 2.0 | ng/l  | 20.0        |               | 88   | 70-130 |     |           |           |
| NFDHA  | 19.8   | 2.0 | ng/l  | 20.0        |               | 99   | 70-130 |     |           |           |
| PFBA   | 16.6   | 2.0 | ng/l  | 20.0        |               | 83   | 70-130 |     |           |           |
| PFBS   | 15.6   | 2.0 | ng/l  | 20.0        |               | 78   | 70-130 |     |           |           |
| PFDA   | 15.8   | 2.0 | ng/l  | 20.0        |               | 79   | 70-130 |     |           |           |
| PFDoA  | 17.4   | 2.0 | ng/l  | 20.0        |               | 87   | 70-130 |     |           |           |
| PFEESA                                       | 18.3   | 2.0 | ng/l  | 20.0        |               | 92   | 70-130 |     |           |           |
| PFHpA  | 16.9   | 2.0 | ng/l  | 20.0        |               | 84   | 70-130 |     |           |           |
| PFHpS  | 15.9   | 2.0 | ng/l  | 20.0        |               | 80   | 70-130 |     |           |           |
| PFHxA  | 17.2   | 2.0 | ng/l  | 20.0        |               | 86   | 70-130 |     |           |           |
| PFHxS  | 15.6   | 2.0 | ng/l  | 20.0        |               | 78   | 70-130 |     |           |           |
| PFMBA  | 16.2   | 2.0 | ng/l  | 20.0        |               | 81   | 70-130 |     |           |           |
| PFMPA  | 14.3   | 2.0 | ng/l  | 20.0        |               | 71   | 70-130 |     |           |           |

Water Replenishment District  
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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: W3H0415 - EPA 533 (Continued)</b> |        |     |       |  |               |      |        |     |           |           |
| <b>LCS (W3H0415-BS1)</b>                    |        |     |       |  |               |      |        |     |           |           |
|   |        |     |       | <b>Prepared: 08/04/23 Analyzed: 08/07/23</b> |               |      |        |     |           |           |
| PFNA  | 16.0   | 2.0 | ng/l  | 20.0   |               | 80   | 70-130 |     |           |           |
| PFOA  | 16.7   | 2.0 | ng/l  | 20.0   |               | 84   | 70-130 |     |           |           |
| PFOS  | 15.0   | 2.0 | ng/l  | 20.0   |               | 75   | 70-130 |     |           |           |
| PFPeA                                       | 17.6   | 2.0 | ng/l  | 20.0   |               | 88   | 70-130 |     |           |           |
| PFPeS                                       | 15.4   | 2.0 | ng/l  | 20.0   |               | 77   | 70-130 |     |           |           |
| PFUnA                                       | 16.9   | 2.0 | ng/l  | 20.0   |               | 84   | 70-130 |     |           |           |
| <i>Surrogate(s)</i>                         |        |     |       |  |               |      |        |     |           |           |
| 13C2-4:2 FTS                                | 38.8   |     | ng/l  | 40.0   |               | 97   | 50-200 |     |           |           |
| 13C2-6:2 FTS                                | 42.6   |     | ng/l  | 40.0   |               | 107  | 50-200 |     |           |           |
| 13C2-8:2 FTS                                | 42.6   |     | ng/l  | 40.0   |               | 106  | 50-200 |     |           |           |
| 13C2-PFDoA                                  | 9.12   |     | ng/l  | 10.0   |               | 91   | 50-200 |     |           |           |
| 13C3-PFBS                                   | 11.4   |     | ng/l  | 10.0   |               | 114  | 50-200 |     |           |           |
| 13C3-PFHxS                                  | 11.3   |     | ng/l  | 10.0   |               | 113  | 50-200 |     |           |           |
| 13C4-PFBA                                   | 10.7   |     | ng/l  | 10.0   |               | 107  | 50-200 |     |           |           |
| 13C4-PFHpA                                  | 10.6   |     | ng/l  | 10.0   |               | 106  | 50-200 |     |           |           |
| 13C5-PFHxA                                  | 10.6   |     | ng/l  | 10.0   |               | 106  | 50-200 |     |           |           |
| 13C5-PFPeA                                  | 10.9   |     | ng/l  | 10.0   |               | 109  | 50-200 |     |           |           |
| 13C6-PFDA                                   | 9.67   |     | ng/l  | 10.0   |               | 97   | 50-200 |     |           |           |
| 13C7-PFUnA                                  | 9.12   |     | ng/l  | 10.0   |               | 91   | 50-200 |     |           |           |
| 13C8-PFOA                                   | 10.4   |     | ng/l  | 10.0   |               | 104  | 50-200 |     |           |           |
| 13C8-PFOS                                   | 11.1   |     | ng/l  | 10.0   |               | 111  | 50-200 |     |           |           |
| 13C9-PFNA                                   | 10.2   |     | ng/l  | 10.0   |               | 102  | 50-200 |     |           |           |
| HFPO-DA-13C3                                | 9.85   |     | ng/l  | 10.0   |               | 98   | 50-200 |     |           |           |
| <b>LCS Dup (W3H0415-BSD1)</b>               |        |     |       |  |               |      |        |     |           |           |
|   |        |     |       | <b>Prepared: 08/04/23 Analyzed: 08/07/23</b> |               |      |        |     |           |           |
| 11CI-PF3OUdS                                | 15.9   | 2.0 | ng/l  | 20.0   |               | 79   | 70-130 | 0.8 | 30        |           |
| 4:2 FTS                                     | 16.1   | 2.0 | ng/l  | 20.0   |               | 81   | 70-130 | 3   | 30        |           |
| 6:2 FTS                                     | 17.9   | 2.0 | ng/l  | 20.0   |               | 89   | 70-130 | 3   | 30        |           |
| 8:2 FTS                                     | 17.4   | 2.0 | ng/l  | 20.0   |               | 87   | 70-130 | 8   | 30        |           |
| 9CI-PF3ONS                                  | 19.8   | 2.0 | ng/l  | 20.0   |               | 99   | 70-130 | 10  | 30        |           |
| ADONA                                       | 16.6   | 2.0 | ng/l  | 20.0   |               | 83   | 70-130 | 2   | 30        |           |
| HFPO-DA                                     | 17.5   | 2.0 | ng/l  | 20.0   |               | 88   | 70-130 | 0.9 | 30        |           |
| NFDHA                                       | 19.3   | 2.0 | ng/l  | 20.0   |               | 96   | 70-130 | 3   | 30        |           |
| PFBA  | 16.9   | 2.0 | ng/l  | 20.0   |               | 84   | 70-130 | 2   | 30        |           |
| PFBS  | 15.7   | 2.0 | ng/l  | 20.0   |               | 79   | 70-130 | 0.9 | 30        |           |
| PFDA  | 16.5   | 2.0 | ng/l  | 20.0   |               | 82   | 70-130 | 4   | 30        |           |
| PFDoA                                       | 17.0   | 2.0 | ng/l  | 20.0   |               | 85   | 70-130 | 2   | 30        |           |
| PFEESA                                      | 17.4   | 2.0 | ng/l  | 20.0   |               | 87   | 70-130 | 5   | 30        |           |
| PFHpA                                       | 17.3   | 2.0 | ng/l  | 20.0   |               | 86   | 70-130 | 2   | 30        |           |
| PFHpS                                       | 16.5   | 2.0 | ng/l  | 20.0   |               | 83   | 70-130 | 3   | 30        |           |

Water Replenishment District  
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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: W3H0415 - EPA 533 (Continued)</b>  |        |     |       |             |               |      |        |     |           |           |
| <b>LCS Dup (W3H0415-BSD1)</b>                |        |     |       |             |               |      |        |     |           |           |
| <b>Prepared: 08/04/23 Analyzed: 08/07/23</b> |        |     |       |             |               |      |        |     |           |           |
| PFHxA  | 16.8   | 2.0 | ng/l  | 20.0        |               | 84   | 70-130 | 2   | 30        |           |
| PFHxS  | 17.2   | 2.0 | ng/l  | 20.0        |               | 86   | 70-130 | 10  | 30        |           |
| PFMBA  | 17.1   | 2.0 | ng/l  | 20.0        |               | 86   | 70-130 | 6   | 30        |           |
| PFMPA  | 14.0   | 2.0 | ng/l  | 20.0        |               | 70   | 70-130 | 2   | 30        |           |
| PFNA   | 17.7   | 2.0 | ng/l  | 20.0        |               | 88   | 70-130 | 10  | 30        |           |
| PFOA   | 16.4   | 2.0 | ng/l  | 20.0        |               | 82   | 70-130 | 2   | 30        |           |
| PFOS   | 16.3   | 2.0 | ng/l  | 20.0        |               | 81   | 70-130 | 8   | 30        |           |
| PFPeA  | 18.0   | 2.0 | ng/l  | 20.0        |               | 90   | 70-130 | 2   | 30        |           |
| PFPeS  | 16.0   | 2.0 | ng/l  | 20.0        |               | 80   | 70-130 | 4   | 30        |           |
| PFUnA  | 16.9   | 2.0 | ng/l  | 20.0        |               | 85   | 70-130 | 0.4 | 30        |           |
| <i>Surrogate(s)</i>                          |        |     |       |             |               |      |        |     |           |           |
| 13C2-4:2 FTS                                 | 41.2   |     | ng/l  | 40.0        |               | 103  | 50-200 |     |           |           |
| 13C2-6:2 FTS                                 | 42.8   |     | ng/l  | 40.0        |               | 107  | 50-200 |     |           |           |
| 13C2-8:2 FTS                                 | 41.4   |     | ng/l  | 40.0        |               | 103  | 50-200 |     |           |           |
| 13C2-PFDoA                                   | 7.66   |     | ng/l  | 10.0        |               | 77   | 50-200 |     |           |           |
| 13C3-PFBS                                    | 12.2   |     | ng/l  | 10.0        |               | 122  | 50-200 |     |           |           |
| 13C3-PFHxS                                   | 11.1   |     | ng/l  | 10.0        |               | 111  | 50-200 |     |           |           |
| 13C4-PFBA                                    | 10.0   |     | ng/l  | 10.0        |               | 100  | 50-200 |     |           |           |
| 13C4-PFHpA                                   | 9.73   |     | ng/l  | 10.0        |               | 97   | 50-200 |     |           |           |
| 13C5-PFHxA                                   | 10.1   |     | ng/l  | 10.0        |               | 101  | 50-200 |     |           |           |
| 13C5-PFPeA                                   | 10.2   |     | ng/l  | 10.0        |               | 102  | 50-200 |     |           |           |
| 13C6-PFDA                                    | 8.32   |     | ng/l  | 10.0        |               | 83   | 50-200 |     |           |           |
| 13C7-PFUnA                                   | 7.87   |     | ng/l  | 10.0        |               | 79   | 50-200 |     |           |           |
| 13C8-PFOA                                    | 9.53   |     | ng/l  | 10.0        |               | 95   | 50-200 |     |           |           |
| 13C8-PFOS                                    | 11.0   |     | ng/l  | 10.0        |               | 110  | 50-200 |     |           |           |
| 13C9-PFNA                                    | 9.18   |     | ng/l  | 10.0        |               | 92   | 50-200 |     |           |           |
| HFPO-DA-13C3                                 | 9.11   |     | ng/l  | 10.0        |               | 91   | 50-200 |     |           |           |



Water Replenishment District  
4040 Paramount Blvd.  
Lakewood, CA 90712

**Project Number:** City of Paramount

**Reported:**  
08/21/2023 09:38

**Project Manager:** Charlene King

## 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: W3G1046 - EPA 314.0</b>      |        |     |       |  |               |      |        |     |           |           |
| <b>Blank (W3G1046-BLK1)</b>            |        |     |       | <b>Prepared: 07/14/23 Analyzed: 07/15/23</b> |               |      |        |     |           |           |
| Perchlorate                            | ND     | 2.0 | ug/l  |  |               |      |        |     |           |           |
| <b>LCS (W3G1046-BS1)</b>               |        |     |       | <b>Prepared: 07/14/23 Analyzed: 07/15/23</b> |               |      |        |     |           |           |
| Perchlorate                            | 10.4   | 2.0 | ug/l  | 10.0   |               | 104  | 85-115 |     |           |           |
| <b>Matrix Spike (W3G1046-MS1)</b>      |        |     |       | <b>Prepared: 07/14/23 Analyzed: 07/15/23</b> |               |      |        |     |           |           |
| Perchlorate                            | 8.48   | 2.0 | ug/l  | 10.0   | ND            | 85   | 80-120 |     |           |           |
| <b>Matrix Spike Dup (W3G1046-MSD1)</b> |        |     |       | <b>Prepared: 07/14/23 Analyzed: 07/15/23</b> |               |      |        |     |           |           |
| Perchlorate                            | 6.33   | 2.0 | ug/l  | 10.0   | ND            | 63   | 80-120 | 29  | 15        | MS-01     |

## 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: W3G0942 - EPA 524.2</b> |        |      |       |  |               |      |        |     |           |           |
| <b>Blank (W3G0942-BLK1)</b>       |        |      |       | <b>Prepared: 07/13/23 Analyzed: 07/14/23</b> |               |      |        |     |           |           |
| Methylene chloride                | ND     | 0.50 | ug/l  |  |               |      |        |     |           |           |
| <i>Surrogate(s)</i>               |        |      |       |  |               |      |        |     |           |           |
| 1,2-Dichlorobenzene-d4            | 38.2   |      | ug/l  | 50.0   |               | 76   | 70-130 |     |           |           |
| 4-Bromofluorobenzene              | 38.1   |      | ug/l  | 50.0   |               | 76   | 70-130 |     |           |           |
| <b>LCS (W3G0942-BS1)</b>          |        |      |       | <b>Prepared: 07/13/23 Analyzed: 07/14/23</b> |               |      |        |     |           |           |
| Methylene chloride                | 3.96   | 0.50 | ug/l  | 5.00   |               | 79   | 70-130 |     |           |           |
| <i>Surrogate(s)</i>               |        |      |       |  |               |      |        |     |           |           |
| 1,2-Dichlorobenzene-d4            | 45.8   |      | ug/l  | 50.0   |               | 92   | 70-130 |     |           |           |
| 4-Bromofluorobenzene              | 44.9   |      | ug/l  | 50.0   |               | 90   | 70-130 |     |           |           |
| <b>LCS Dup (W3G0942-BSD1)</b>     |        |      |       | <b>Prepared: 07/13/23 Analyzed: 07/14/23</b> |               |      |        |     |           |           |
| Methylene chloride                | 4.22   | 0.50 | ug/l  | 5.00   |               | 84   | 70-130 | 6   | 30        |           |
| <i>Surrogate(s)</i>               |        |      |       |  |               |      |        |     |           |           |
| 1,2-Dichlorobenzene-d4            | 48.2   |      | ug/l  | 50.0   |               | 96   | 70-130 |     |           |           |
| 4-Bromofluorobenzene              | 47.1   |      | ug/l  | 50.0   |               | 94   | 70-130 |     |           |           |

Water Replenishment District  
 4040 Paramount Blvd.  
 Lakewood, CA 90712

**Project Number:** City of Paramount

**Project Manager:** Charlene King

**Reported:**  
 08/21/2023 09:38

## Notes and Definitions

| Item   | Definition  |
|--------|---|
| B-02   | This analyte is detected in the method blank below the MRL, but above the method acceptance criteria.   |
| MS-01  | The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.  |
| Q-12   | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data. |
| Q-ME   | Acceptable QC with marginal exceedance  |
| %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     | 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 #

3607022

Page 1 Of 1

|   |                     |  |              |   |  |  |  |  |  |  |  |  |                        |                        |                     |              |                        |                        |                     |   |  |
|---|---------------------|--|--------------|---|--|--|--|--|--|--|--|--|------------------------|------------------------|---------------------|--------------|------------------------|------------------------|---------------------|---|--|
| CLIENT NAME:<br>Water Replenishment District          |                     | PROJECT:<br>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 353.2 Nitrate as N</td> <td>EPA 314 Perchlorate</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 353.2 Nitrate as N | EPA 314 Perchlorate | <b>SPECIAL HANDLING</b><br><input type="checkbox"/> Same Day Rush 150%<br><input type="checkbox"/> 24 Hour Rush 100%<br><input type="checkbox"/> 48-72 Hour Rush 75%<br><input type="checkbox"/> 4 - 5 Day Rush 30%<br><input type="checkbox"/> Rush Extractions 50%<br><input type="checkbox"/> 10 - 15 Business Days<br><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 353.2 Nitrate as N | EPA 314 Perchlorate |              |                        |                        |                     |   |  |
| ADDRESS:<br>4040 Paramount Blvd<br>Lakewood, Ca 90712 |                     | PHONE: 562-921-5521<br>FAX:<br>EMAIL: <a href="mailto:cking@wrdd.org">cking@wrdd.org</a> |              |   |  |  |  |  |  |  |  | Charges will apply for weekends/holidays |                        | Method of Shipment:    |                     |              |                        |                        |                     |   |  |
| PROJECT MANAGER<br>Charlene King                      |                     | SAMPLER<br>Weck - <i>Alan</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 353.2 Nitrate as N | EPA 314 Perchlorate | COMMENTS        |
|---------|--------------|--------------|-----------|--------------------------------------|------------|--------------------------|---------------------|---------|--------------|--------------|------------------------|------------------------|---------------------|-----------------|
| 3DEB1   | 7/10/23      | 1035         | GW        | Well 14 CA1910105_016_016            | 10         | x                        | x                   | x       | x            |              |                        | x                      | x                   | Fld Temp 22.2°c |
|         |              |              | FB        | Well 14 - FRB                        | 1          |                          |                     | x       |              |              |                        |                        |                     |                 |
| 3DEB2   |              | 1100         | GW        | Well 15 (Pre) CA1910105_025_025      | 7          |                          |                     | x       | x            | x            | x                      | x                      | x                   | Fld Temp 22.9°c |
|         |              |              | FB        | Well 15 (Pre) - FRB                  | 1          |                          |                     | x       |              |              |                        |                        |                     |                 |
| 3DEB3   |              | 1115         | GW        | Well 15 (Effluent) CA1910105_027_027 | 7          |                          |                     | x       | x            | x            | x                      | x                      | x                   | Fld Temp 23.4°c |
|         |              |              | FB        | Well 15 (Effluent) - FRB             | 1          |                          |                     | x       |              |              |                        |                        |                     |                 |
|         |              |              | TB        | Travel Blank                         | 1          | x                        |                     |         |              |              |                        |                        |                     |                 |

|                                       |                             |   |  |   |
|---------------------------------------|-----------------------------|---|--|---|
| RELINQUISHED BY<br><i>[Signature]</i> | DATE / TIME<br>7/10/23 1656 | RECEIVED BY<br><i>[Signature]</i> 07/10/23 1650 | <b>SAMPLE CONDITION</b><br>Actual Temperature: 3.0°c<br>Received On Ice<br>Preserved<br>Evidence Seals Present<br>Container Attacked<br>Preserved at Lab | <b>SAMPLE TYPE CODE:</b><br>AQ=Aqueous<br>NA= Non Aqueous<br>SL = Sludge<br>DW = Drinking Water<br>WW = Waste Water<br>RW = Rain Water<br>GW = Ground Water<br>SO = Soil<br>SW = Solid Waste<br>OL = Oil<br>OT = Other Matrix |
| RELINQUISHED BY                       | DATE / TIME                 | RECEIVED BY                                     |  |   |
| RELINQUISHED BY                       | DATE / TIME                 | RECEIVED BY                                     |  |   |

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS

Client agrees to Terms & Conditions at: [www.wecklabs.com](http://www.wecklabs.com) WTX: 20352

SPECIAL REQUIREMENTS / BILLING INFORMATION

Watertrax Uploaded Needed



WECK LABORATORIES, INC.

# Sample Receipt Checklist

Week WKO: **3G07022**

Date/Time Received: **07/10/23 @ 16:50**

WKO Logged by: Lester Abad

# of Samples: **07**

Samples Checked by: Lester Abad

Delivered by: Client

| Task  | Yes                                 | No                                  | N/A                                 | Comments  |
|---|-------------------------------------|-------------------------------------|-------------------------------------|---|
| 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"/>            |                                     |   |
| <b>COC</b>  |                                     |                                     |                                     |   |
| Project Manager notified about COC discrepancy?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |   |
| Sample Temperature  |                                     | 3.2°C                               | <input type="checkbox"/>            |   |
| Samples received on ice?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |   |
| Ice Type (Blue/Wet)   |                                     | 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 type="checkbox"/>            | <input type="checkbox"/>            |                                     |   |
| Project Manager notified about receipt info?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" 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)<br>524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> <6mm/Pea Size?                 |
| pH verified upon receipt?<br>Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1,<br>525.2<2, 6710B<2, 608.3.5-9 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | pH paper Lot#<br>pH Reading:<br>Acid Lot#<br>Amt added: |
| Free Chlorine Tested <0.1 (Organics Analyses)   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Cl Test Strip Lot#                                      |
| 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:<br>Acid Lot#<br>Amt added:                  |
| Project Manager notified about sample preservation?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |   |

PM Comments

Sample Receipt Checklist Completed by:

Signature: Lester Abad

Date: 07/11/23