BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

**VIB0257**
**3/03/2025**

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

*REPORT OF ANALYSIS*

| | |
|---|---|
| Date Collected: **02/18/25** | System Group Type: **A** |
| Water System ID Number: **93400** | System Name: **City of Washougal** |
| Lab -- Sample Number: **218-25702** | County: **Clark** |
| Sample Location: **S04 NO TREATMENT** | Source Number(s): (list all sources if blended or composited) **04** |
| Sample Purpose: (check appropriate box)<br>[X] RC - Routine/Compliance (satisfies monitoring requirements)<br>[ ] C - Confirmation (confirmation of chemical result)*<br>[ ] I - Investigative (does not satisfy monitoring requirements)<br>[ ] O - Other (specify-does not satisfy monitoring requirements) | Date Received: **02/18/25**<br>Date Analyzed: **02/28/25**<br>Date Reported: **03/03/25** |
| Sample Composition: (check appropriate box)<br>[X] S - Single Source<br>[ ] B - Blended (List source numbers in "Source Numbers" field)<br>[ ] C - Composite (List source numbers in "Source Numbers" field)<br>[ ] D - Distribution sample | Sample Type: (check one)<br>[X] Pre-Treatment/Untreated (Raw)<br>[ ] Post-treatment (Finished)<br>[ ] Unknown or Other<br>Sample Collected by: **Grant D Lewis**<br>Phone Number: **360-835-2662** |

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

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

### REQUIRED ANALYTICAL RESULTS

| DOH # | CONSTITUENT | DATA QUALIFIERS | RESULTS | SDRL | SAL | UNITS | EXCEEDS SAL? (X if Yes) | METHOD/ Initials |
|---|---|---|---|---|---|---|---|---|
| 0434 | (PFOA) Perfluorooctanoic acid | | ND | 2 | 10 | ng/L | | EPA 537.1 / JNG |
| 0433 | (PFOS) Perfluorooctanesulfonic acid | | ND | 2 | 15 | ng/L | | EPA 537.1 / JNG |
| 0431 | (PFHxS) Perfluorohexanesulfonic acid | | ND | 2 | 65 | ng/L | | EPA 537.1 / JNG |
| 0432 | (PFNA) Perfluorononanoic acid | | ND | 2 | 9 | ng/L | | EPA 537.1 / JNG |
| 0429 | (PFBS) Perfluorobutanesulfonic acid | | ND | 2 | 345 | ng/L | | EPA 537.1 / JNG |
| 0430 | (PFHpA) Perfluoroheptanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0435 | (PFHxA) Perfluorohexanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0436 | (PFDA) Perfluorodecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0437 | (PFUnA) Perfluoroundecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0438 | (PFDoA) Perfluorododecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0445 | (ADONA) 4,8-Dioxa-3H-perfluorononanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0446 | (9Cl-PF3ONS) 9-Chlorohexadecafluoro-3-oxanone-1-su | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0447 | (HFPO-DA) Hexafluoropropylene oxide dimer acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0448 | (11Cl-PF3OUdS) 11-Chloroeicosafluoro-3-oxaundecane | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0439 | (PFTrDA) Perfluorotridecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0440 | (PFTA) Perfluorotetradecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0441 | (NEtFOSAA) N-ethyl perfluorooctanesulfonamidoaceti | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0442 | (NMeFOSAA) N-methyl perfluorooctanesulfonamidoacet | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |

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**NOTES**:

***Confirmation:** Include the original lab number, sample number, and collection date of original sample in either comment section.
**To qualify for a monitoring waiver the additional contaminants must be reported to DOH.
**DATA QUALIFIER:** A symbol or letter to denote additional information about the result.
**DOH#:** Department assigned contaminant number.
**Exceeds SAL**: Marked if the contaminant amount exceeds the SAL under chapter 246-290 WAC. If you have questions about this result, please contact the department's drinking water regional office in your area.
**METHOD/INITIALS:** Analytical method used. / Initials of the analyst that performed the analysis.
**ng/L:** nanograms per liter or parts per trillion.
**SAL (State Action Level)** means the concentration of a contaminant or group of contaminants, without an MCL, established to protect public health in accordance with WAC 246-290-315 and which, if exceeded, triggers actions a purveyor takes in accordance with WAC 246-290-320.
**SDRL (State Detection Reporting Limit):** The minimum reportable detection of a contaminant as established by the department.
**ND (Not Detected):** In the results column, indicates this compound was analyzed and not detected at a level greater than or equal to the SDRL.

## Lab Comments:

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**VIB0257**
**3/03/2025**

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

*REPORT OF ANALYSIS*

| | |
|---|---|
| Date Collected: **02/18/25** | System Group Type: **A** |
| Water System ID Number: **93400** | System Name: **City of Washougal** |
| Lab -- Sample Number: **218-25704** | County: **Clark** |
| Sample Location: **S06 AFTER TREATMENT** | Source Number(s): (list all sources if blended or composited) **06** |
| Sample Purpose: (check appropriate box)<br>[X] RC - Routine/Compliance (satisfies monitoring requirements)<br>[ ] C - Confirmation (confirmation of chemical result)*<br>[ ] I - Investigative (does not satisfy monitoring requirements)<br>[ ] O - Other (specify-does not satisfy monitoring requirements) | Date Received: **02/18/25**<br>Date Analyzed: **02/27/25**<br>Date Reported: **03/03/25** |
| Sample Composition: (check appropriate box)<br>[X] S - Single Source<br>[ ] B - Blended (List source numbers in "Source Numbers" field)<br>[ ] C - Composite (List source numbers in "Source Numbers" field)<br>[ ] D - Distribution sample | Sample Type: (check one)<br>[ ] Pre-Treatment/Untreated (Raw)<br>[X] Post-treatment (Finished)<br>[ ] Unknown or Other<br>Sample Collected by: **Grant D Lewis**<br>Phone Number: **360-835-2662** |

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Adam Connolly
1701 C Street, Washougal, WA 98671

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

### REQUIRED ANALYTICAL RESULTS

| DOH # | CONSTITUENT | DATA QUALIFIERS | RESULTS | SDRL | SAL | UNITS | EXCEEDS SAL? (X if Yes) | METHOD/ Initials |
|---|---|---|---|---|---|---|---|---|
| 0434 | (PFOA) Perfluorooctanoic acid | | 2.06 | 2 | 10 | ng/L | | EPA 537.1 / JNG |
| 0433 | (PFOS) Perfluorooctanesulfonic acid | | 4.37 | 2 | 15 | ng/L | | EPA 537.1 / JNG |
| 0431 | (PFHxS) Perfluorohexanesulfonic acid | | ND | 2 | 65 | ng/L | | EPA 537.1 / JNG |
| 0432 | (PFNA) Perfluorononanoic acid | | ND | 2 | 9 | ng/L | | EPA 537.1 / JNG |
| 0429 | (PFBS) Perfluorobutanesulfonic acid | | 2.11 | 2 | 345 | ng/L | | EPA 537.1 / JNG |
| 0430 | (PFHpA) Perfluoroheptanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0435 | (PFHxA) Perfluorohexanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0436 | (PFDA) Perfluorodecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0437 | (PFUnA) Perfluoroundecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0438 | (PFDoA) Perfluorododecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0445 | (ADONA) 4,8-Dioxa-3H-perfluorononanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0446 | (9Cl-PF3ONS) 9-Chlorohexadecafluoro-3-oxanone-1-su | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0447 | (HFPO-DA) Hexafluoropropylene oxide dimer acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0448 | (11Cl-PF3OUdS) 11-Chloroeicosafluoro-3-oxaundecane | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0439 | (PFTrDA) Perfluorotridecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0440 | (PFTA) Perfluorotetradecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0441 | (NEtFOSAA) N-ethyl perfluorooctanesulfonamidoaceti | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0442 | (NMeFOSAA) N-methyl perfluorooctanesulfonamidoacet | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |

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**NOTES**:

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**To qualify for a monitoring waiver the additional contaminants must be reported to DOH.
**DATA QUALIFIER:** A symbol or letter to denote additional information about the result.
**DOH#:** Department assigned contaminant number.
**Exceeds SAL**: Marked if the contaminant amount exceeds the SAL under chapter 246-290 WAC. If you have questions about this result, please contact the department's drinking water regional office in your area.
**METHOD/INITIALS:** Analytical method used. / Initials of the analyst that performed the analysis.
**ng/L:** nanograms per liter or parts per trillion.
**SAL (State Action Level)** means the concentration of a contaminant or group of contaminants, without an MCL, established to protect public health in accordance with WAC 246-290-315 and which, if exceeded, triggers actions a purveyor takes in accordance with WAC 246-290-320.
**SDRL (State Detection Reporting Limit):** The minimum reportable detection of a contaminant as established by the department.
**ND (Not Detected):** In the results column, indicates this compound was analyzed and not detected at a level greater than or equal to the SDRL.

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**VIB0257**
**3/03/2025**

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

*REPORT OF ANALYSIS*

| | |
|---|---|
| Date Collected: **02/18/25** | System Group Type: **A** |
| Water System ID Number: **93400** | System Name: **City of Washougal** |
| Lab -- Sample Number: **218-25705** | County: **Clark** |
| Sample Location: **S07 AFTER TREATMENT** | Source Number(s): (list all sources if blended or composited) **07** |
| Sample Purpose: (check appropriate box)<br>[X] RC - Routine/Compliance (satisfies monitoring requirements)<br>[ ] C - Confirmation (confirmation of chemical result)*<br>[ ] I - Investigative (does not satisfy monitoring requirements)<br>[ ] O - Other (specify-does not satisfy monitoring requirements) | Date Received: **02/18/25**<br>Date Analyzed: **02/27/25**<br>Date Reported: **03/03/25** |
| Sample Composition: (check appropriate box)<br>[X] S - Single Source<br>[ ] B - Blended (List source numbers in "Source Numbers" field)<br>[ ] C - Composite (List source numbers in "Source Numbers" field)<br>[ ] D - Distribution sample | Sample Type: (check one)<br>[ ] Pre-Treatment/Untreated (Raw)<br>[X] Post-treatment (Finished)<br>[ ] Unknown or Other<br>Sample Collected by: **Grant D Lewis**<br>Phone Number: **360-835-2662** |

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1701 C Street, Washougal, WA 98671

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

### REQUIRED ANALYTICAL RESULTS

| DOH # | CONSTITUENT | DATA QUALIFIERS | RESULTS | SDRL | SAL | UNITS | EXCEEDS SAL? (X if Yes) | METHOD/ Initials |
|---|---|---|---|---|---|---|---|---|
| 0434 | (PFOA) Perfluorooctanoic acid | | 2.42 | 2 | 10 | ng/L | | EPA 537.1 / JNG |
| 0433 | (PFOS) Perfluorooctanesulfonic acid | | 5.16 | 2 | 15 | ng/L | | EPA 537.1 / JNG |
| 0431 | (PFHxS) Perfluorohexanesulfonic acid | | ND | 2 | 65 | ng/L | | EPA 537.1 / JNG |
| 0432 | (PFNA) Perfluorononanoic acid | | ND | 2 | 9 | ng/L | | EPA 537.1 / JNG |
| 0429 | (PFBS) Perfluorobutanesulfonic acid | | 2.19 | 2 | 345 | ng/L | | EPA 537.1 / JNG |
| 0430 | (PFHpA) Perfluoroheptanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0435 | (PFHxA) Perfluorohexanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0436 | (PFDA) Perfluorodecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0437 | (PFUnA) Perfluoroundecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0438 | (PFDoA) Perfluorododecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0445 | (ADONA) 4,8-Dioxa-3H-perfluorononanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0446 | (9Cl-PF3ONS) 9-Chlorohexadecafluoro-3-oxanone-1-su | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0447 | (HFPO-DA) Hexafluoropropylene oxide dimer acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0448 | (11Cl-PF3OUdS) 11-Chloroeicosafluoro-3-oxaundecane | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0439 | (PFTrDA) Perfluorotridecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0440 | (PFTA) Perfluorotetradecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0441 | (NEtFOSAA) N-ethyl perfluorooctanesulfonamidoaceti | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0442 | (NMeFOSAA) N-methyl perfluorooctanesulfonamidoacet | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |

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**NOTES**:

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**To qualify for a monitoring waiver the additional contaminants must be reported to DOH.
**DATA QUALIFIER:** A symbol or letter to denote additional information about the result.
**DOH#:** Department assigned contaminant number.
**Exceeds SAL**: Marked if the contaminant amount exceeds the SAL under chapter 246-290 WAC. If you have questions about this result, please contact the department's drinking water regional office in your area.
**METHOD/INITIALS:** Analytical method used. / Initials of the analyst that performed the analysis.
**ng/L:** nanograms per liter or parts per trillion.
**SAL (State Action Level)** means the concentration of a contaminant or group of contaminants, without an MCL, established to protect public health in accordance with WAC 246-290-315 and which, if exceeded, triggers actions a purveyor takes in accordance with WAC 246-290-320.
**SDRL (State Detection Reporting Limit):** The minimum reportable detection of a contaminant as established by the department.
**ND (Not Detected):** In the results column, indicates this compound was analyzed and not detected at a level greater than or equal to the SDRL.

## Lab Comments:

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**VIB0257**
**3/03/2025**

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

*REPORT OF ANALYSIS*

| | |
|---|---|
| Date Collected: **02/18/25** | System Group Type: **A** |
| Water System ID Number: **93400** | System Name: **City of Washougal** |
| Lab -- Sample Number: **218-25706** | County: **Clark** |
| Sample Location: **S05 AFTER TREATMENT** | Source Number(s): (list all sources if blended or composited) **05** |
| Sample Purpose: (check appropriate box)<br>[X] RC - Routine/Compliance (satisfies monitoring requirements)<br>[ ] C - Confirmation (confirmation of chemical result)*<br>[ ] I - Investigative (does not satisfy monitoring requirements)<br>[ ] O - Other (specify-does not satisfy monitoring requirements) | Date Received: **02/18/25**<br>Date Analyzed: **02/27/25**<br>Date Reported: **03/03/25** |
| Sample Composition: (check appropriate box)<br>[X] S - Single Source<br>[ ] B - Blended (List source numbers in "Source Numbers" field)<br>[ ] C - Composite (List source numbers in "Source Numbers" field)<br>[ ] D - Distribution sample | Sample Type: (check one)<br>[ ] Pre-Treatment/Untreated (Raw)<br>[X] Post-treatment (Finished)<br>[ ] Unknown or Other<br>Sample Collected by: **Grant D Lewis**<br>Phone Number: **360-835-2662** |

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Adam Connolly
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Bill to:
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### REQUIRED ANALYTICAL RESULTS

| DOH # | CONSTITUENT | DATA QUALIFIERS | RESULTS | SDRL | SAL | UNITS | EXCEEDS SAL? (X if Yes) | METHOD/ Initials |
|---|---|---|---|---|---|---|---|---|
| 0434 | (PFOA) Perfluorooctanoic acid | | 3.10 | 2 | 10 | ng/L | | EPA 537.1 / JNG |
| 0433 | (PFOS) Perfluorooctanesulfonic acid | | 6.27 | 2 | 15 | ng/L | | EPA 537.1 / JNG |
| 0431 | (PFHxS) Perfluorohexanesulfonic acid | | ND | 2 | 65 | ng/L | | EPA 537.1 / JNG |
| 0432 | (PFNA) Perfluorononanoic acid | | ND | 2 | 9 | ng/L | | EPA 537.1 / JNG |
| 0429 | (PFBS) Perfluorobutanesulfonic acid | | 2.42 | 2 | 345 | ng/L | | EPA 537.1 / JNG |
| 0430 | (PFHpA) Perfluoroheptanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0435 | (PFHxA) Perfluorohexanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0436 | (PFDA) Perfluorodecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0437 | (PFUnA) Perfluoroundecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0438 | (PFDoA) Perfluorododecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0445 | (ADONA) 4,8-Dioxa-3H-perfluorononanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0446 | (9Cl-PF3ONS) 9-Chlorohexadecafluoro-3-oxanone-1-su | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0447 | (HFPO-DA) Hexafluoropropylene oxide dimer acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0448 | (11Cl-PF3OUdS) 11-Chloroeicosafluoro-3-oxaundecane | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0439 | (PFTrDA) Perfluorotridecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0440 | (PFTA) Perfluorotetradecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0441 | (NEtFOSAA) N-ethyl perfluorooctanesulfonamidoaceti | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0442 | (NMeFOSAA) N-methyl perfluorooctanesulfonamidoacet | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |

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**DATA QUALIFIER:** A symbol or letter to denote additional information about the result.
**DOH#:** Department assigned contaminant number.
**Exceeds SAL**: Marked if the contaminant amount exceeds the SAL under chapter 246-290 WAC. If you have questions about this result, please contact the department's drinking water regional office in your area.
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**ng/L:** nanograms per liter or parts per trillion.
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**VIB0257**
**3/03/2025**

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

*REPORT OF ANALYSIS*

| | |
|---|---|
| Date Collected: **02/18/25** | System Group Type: **A** |
| Water System ID Number: **93400** | System Name: **City of Washougal** |
| Lab -- Sample Number: **218-25707** | County: **Clark** |
| Sample Location: **S11 AFTER TREATMENT** | Source Number(s): (list all sources if blended or composited) **11** |
| Sample Purpose: (check appropriate box)<br>[X] RC - Routine/Compliance (satisfies monitoring requirements)<br>[ ] C - Confirmation (confirmation of chemical result)*<br>[ ] I - Investigative (does not satisfy monitoring requirements)<br>[ ] O - Other (specify-does not satisfy monitoring requirements) | Date Received: **02/18/25**<br>Date Analyzed: **02/27/25**<br>Date Reported: **03/03/25** |
| Sample Composition: (check appropriate box)<br>[X] S - Single Source<br>[ ] B - Blended (List source numbers in "Source Numbers" field)<br>[ ] C - Composite (List source numbers in "Source Numbers" field)<br>[ ] D - Distribution sample | Sample Type: (check one)<br>[ ] Pre-Treatment/Untreated (Raw)<br>[X] Post-treatment (Finished)<br>[ ] Unknown or Other<br>Sample Collected by: **Grant D Lewis**<br>Phone Number: **360-835-2662** |

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### REQUIRED ANALYTICAL RESULTS

| DOH # | CONSTITUENT | DATA QUALIFIERS | RESULTS | SDRL | SAL | UNITS | EXCEEDS SAL? (X if Yes) | METHOD/ Initials |
|---|---|---|---|---|---|---|---|---|
| 0434 | (PFOA) Perfluorooctanoic acid | | 3.21 | 2 | 10 | ng/L | | EPA 537.1 / JNG |
| 0433 | (PFOS) Perfluorooctanesulfonic acid | | 6.53 | 2 | 15 | ng/L | | EPA 537.1 / JNG |
| 0431 | (PFHxS) Perfluorohexanesulfonic acid | | ND | 2 | 65 | ng/L | | EPA 537.1 / JNG |
| 0432 | (PFNA) Perfluorononanoic acid | | ND | 2 | 9 | ng/L | | EPA 537.1 / JNG |
| 0429 | (PFBS) Perfluorobutanesulfonic acid | | 2.62 | 2 | 345 | ng/L | | EPA 537.1 / JNG |
| 0430 | (PFHpA) Perfluoroheptanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0435 | (PFHxA) Perfluorohexanoic acid | | 2.12 | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0436 | (PFDA) Perfluorodecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0437 | (PFUnA) Perfluoroundecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0438 | (PFDoA) Perfluorododecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0445 | (ADONA) 4,8-Dioxa-3H-perfluorononanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0446 | (9Cl-PF3ONS) 9-Chlorohexadecafluoro-3-oxanone-1-su | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0447 | (HFPO-DA) Hexafluoropropylene oxide dimer acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0448 | (11Cl-PF3OUdS) 11-Chloroeicosafluoro-3-oxaundecane | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0439 | (PFTrDA) Perfluorotridecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0440 | (PFTA) Perfluorotetradecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0441 | (NEtFOSAA) N-ethyl perfluorooctanesulfonamidoaceti | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0442 | (NMeFOSAA) N-methyl perfluorooctanesulfonamidoacet | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)



**NOTES**:

***Confirmation:** Include the original lab number, sample number, and collection date of original sample in either comment section.
**To qualify for a monitoring waiver the additional contaminants must be reported to DOH.
**DATA QUALIFIER:** A symbol or letter to denote additional information about the result.
**DOH#:** Department assigned contaminant number.
**Exceeds SAL**: Marked if the contaminant amount exceeds the SAL under chapter 246-290 WAC. If you have questions about this result, please contact the department's drinking water regional office in your area.
**METHOD/INITIALS:** Analytical method used. / Initials of the analyst that performed the analysis.
**ng/L:** nanograms per liter or parts per trillion.
**SAL (State Action Level)** means the concentration of a contaminant or group of contaminants, without an MCL, established to protect public health in accordance with WAC 246-290-315 and which, if exceeded, triggers actions a purveyor takes in accordance with WAC 246-290-320.
**SDRL (State Detection Reporting Limit):** The minimum reportable detection of a contaminant as established by the department.
**ND (Not Detected):** In the results column, indicates this compound was analyzed and not detected at a level greater than or equal to the SDRL.

## Lab Comments:

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

**VIB0257**
**3/03/2025**

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

*REPORT OF ANALYSIS*

| | |
|---|---|
| Date Collected: **02/18/25** | System Group Type: **A** |
| Water System ID Number: **93400** | System Name: **City of Washougal** |
| Lab -- Sample Number: **218-25708** | County: **Clark** |
| Sample Location: **S13 AFTER TREATMENT** | Source Number(s): (list all sources if blended or composited) **13** |
| Sample Purpose: (check appropriate box)<br>[X] RC - Routine/Compliance (satisfies monitoring requirements)<br>[ ] C - Confirmation (confirmation of chemical result)*<br>[ ] I - Investigative (does not satisfy monitoring requirements)<br>[ ] O - Other (specify-does not satisfy monitoring requirements) | Date Received: **02/18/25**<br>Date Analyzed: **02/27/25**<br>Date Reported: **03/03/25** |
| Sample Composition: (check appropriate box)<br>[X] S - Single Source<br>[ ] B - Blended (List source numbers in "Source Numbers" field)<br>[ ] C - Composite (List source numbers in "Source Numbers" field)<br>[ ] D - Distribution sample | Sample Type: (check one)<br>[ ] Pre-Treatment/Untreated (Raw)<br>[X] Post-treatment (Finished)<br>[ ] Unknown or Other<br>Sample Collected by: **Grant D Lewis**<br>Phone Number: **360-835-2662** |

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

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

### REQUIRED ANALYTICAL RESULTS

| DOH # | CONSTITUENT | DATA QUALIFIERS | RESULTS | SDRL | SAL | UNITS | EXCEEDS SAL? (X if Yes) | METHOD/ Initials |
|---|---|---|---|---|---|---|---|---|
| 0434 | (PFOA) Perfluorooctanoic acid | | 3.13 | 2 | 10 | ng/L | | EPA 537.1 / JNG |
| 0433 | (PFOS) Perfluorooctanesulfonic acid | | 6.53 | 2 | 15 | ng/L | | EPA 537.1 / JNG |
| 0431 | (PFHxS) Perfluorohexanesulfonic acid | | ND | 2 | 65 | ng/L | | EPA 537.1 / JNG |
| 0432 | (PFNA) Perfluorononanoic acid | | ND | 2 | 9 | ng/L | | EPA 537.1 / JNG |
| 0429 | (PFBS) Perfluorobutanesulfonic acid | | 2.80 | 2 | 345 | ng/L | | EPA 537.1 / JNG |
| 0430 | (PFHpA) Perfluoroheptanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0435 | (PFHxA) Perfluorohexanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0436 | (PFDA) Perfluorodecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0437 | (PFUnA) Perfluoroundecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0438 | (PFDoA) Perfluorododecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0445 | (ADONA) 4,8-Dioxa-3H-perfluorononanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0446 | (9Cl-PF3ONS) 9-Chlorohexadecafluoro-3-oxanone-1-su | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0447 | (HFPO-DA) Hexafluoropropylene oxide dimer acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0448 | (11Cl-PF3OUdS) 11-Chloroeicosafluoro-3-oxaundecane | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0439 | (PFTrDA) Perfluorotridecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0440 | (PFTA) Perfluorotetradecanoic acid | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0441 | (NEtFOSAA) N-ethyl perfluorooctanesulfonamidoaceti | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |
| 0442 | (NMeFOSAA) N-methyl perfluorooctanesulfonamidoacet | | ND | 2 | n/a | ng/L | | EPA 537.1 / JNG |

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**NOTES**:

***Confirmation:** Include the original lab number, sample number, and collection date of original sample in either comment section.
**To qualify for a monitoring waiver the additional contaminants must be reported to DOH.
**DATA QUALIFIER:** A symbol or letter to denote additional information about the result.
**DOH#:** Department assigned contaminant number.
**Exceeds SAL**: Marked if the contaminant amount exceeds the SAL under chapter 246-290 WAC. If you have questions about this result, please contact the department's drinking water regional office in your area.
**METHOD/INITIALS:** Analytical method used. / Initials of the analyst that performed the analysis.
**ng/L:** nanograms per liter or parts per trillion.
**SAL (State Action Level)** means the concentration of a contaminant or group of contaminants, without an MCL, established to protect public health in accordance with WAC 246-290-315 and which, if exceeded, triggers actions a purveyor takes in accordance with WAC 246-290-320.
**SDRL (State Detection Reporting Limit):** The minimum reportable detection of a contaminant as established by the department.
**ND (Not Detected):** In the results column, indicates this compound was analyzed and not detected at a level greater than or equal to the SDRL.

## Lab Comments:

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

**VIB0257**
**3/03/2025**

## *BSK Associates Laboratory Fresno*

## Organics Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EPA 537.1 - Quality Control** | | | | | | | | | | | |
| **Batch: AIB1583** | | | | | | | | | | Prepared: 2/24/2025 | |
| **Prep Method: EPA 537.1** | | | | | | | | | | Analyst: CMF | |
| **Blank (AIB1583-BLK1)** | | | | | | | | | | | |
| 11Cl-PF3OUdS | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| ADONA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| 9Cl-PF3ONS | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| HFPO-DA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| NEtFOSAA | ND | 3.0 | ng/L | | | | | | | 02/25/25 | |
| NMeFOSAA | ND | 3.0 | ng/L | | | | | | | 02/25/25 | |
| PFBS | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFHxS | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFOS | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFDoA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFDA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFHpA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFHxA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFNA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFOA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFTDA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFTrDA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| PFUnDA | ND | 2.0 | ng/L | | | | | | | 02/25/25 | |
| *Surrogate: 13C2-PFHxA* | *170* | | | *160* | | *108* | *70-130* | | | 02/25/25 | |
| *Surrogate: 13C2-PFDA* | *170* | | | *160* | | *104* | *70-130* | | | 02/25/25 | |
| *Surrogate: 13C3-HFPO-DA* | *160* | | | *160* | | *102* | *70-130* | | | 02/25/25 | |
| *Surrogate: d5-NEtFOSAA* | *150* | | | *160* | | *93* | *70-130* | | | 02/25/25 | |
| **Blank Spike (AIB1583-BS1)** | | | | | | | | | | | |
| 11Cl-PF3OUdS | 9.4 | 2.0 | ng/L | 10 | ND | 94 | 70-130 | | | 02/25/25 | |
| ADONA | 10 | 2.0 | ng/L | 10 | ND | 100 | 70-130 | | | 02/25/25 | |
| 9Cl-PF3ONS | 11 | 2.0 | ng/L | 10 | ND | 105 | 70-130 | | | 02/25/25 | |
| HFPO-DA | 9.6 | 2.0 | ng/L | 10 | ND | 96 | 70-130 | | | 02/25/25 | |
| NEtFOSAA | 9.4 | 3.0 | ng/L | 10 | ND | 94 | 70-130 | | | 02/25/25 | |
| NMeFOSAA | 9.7 | 3.0 | ng/L | 10 | ND | 97 | 70-130 | | | 02/25/25 | |
| PFBS | 12 | 2.0 | ng/L | 10 | ND | 118 | 70-130 | | | 02/25/25 | |
| PFHxS | 11 | 2.0 | ng/L | 10 | ND | 108 | 70-130 | | | 02/25/25 | |
| PFOS | 11 | 2.0 | ng/L | 10 | ND | 105 | 70-130 | | | 02/25/25 | |
| PFDoA | 9.5 | 2.0 | ng/L | 10 | ND | 95 | 70-130 | | | 02/25/25 | |
| PFDA | 10 | 2.0 | ng/L | 10 | ND | 102 | 70-130 | | | 02/25/25 | |
| PFHpA | 10 | 2.0 | ng/L | 10 | ND | 101 | 70-130 | | | 02/25/25 | |
| PFHxA | 11 | 2.0 | ng/L | 10 | ND | 106 | 70-130 | | | 02/25/25 | |
| PFNA | 10 | 2.0 | ng/L | 10 | ND | 100 | 70-130 | | | 02/25/25 | |
| PFOA | 11 | 2.0 | ng/L | 10 | ND | 108 | 70-130 | | | 02/25/25 | |
| PFTDA | 8.8 | 2.0 | ng/L | 10 | ND | 88 | 70-130 | | | 02/25/25 | |

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Fresno, CA 93727
559-497-2888 (Main)

**VIB0257**
**3/03/2025**

## *BSK Associates Laboratory Fresno*

## Organics Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EPA 537.1 - Quality Control** | | | | | | | | | | | |
| **Batch: AIB1583** | | | | | | | | | | Prepared: 2/24/2025 | |
| **Prep Method: EPA 537.1** | | | | | | | | | | Analyst: CMF | |
| **Blank Spike (AIB1583-BS1)** | | | | | | | | | | | |
| PFTrDA | 9.4 | 2.0 | ng/L | 10 | ND | 94 | 70-130 | | | 02/25/25 | |
| PFUnDA | 10 | 2.0 | ng/L | 10 | ND | 103 | 70-130 | | | 02/25/25 | |
| *Surrogate: 13C2-PFHxA* | *160* | | | *160* | | *102* | *70-130* | | | 02/25/25 | |
| *Surrogate: 13C2-PFDA* | *170* | | | *160* | | *104* | *70-130* | | | 02/25/25 | |
| *Surrogate: 13C3-HFPO-DA* | *150* | | | *160* | | *94* | *70-130* | | | 02/25/25 | |
| *Surrogate: d5-NEtFOSAA* | *160* | | | *160* | | *99* | *70-130* | | | 02/25/25 | |
| **Matrix Spike (AIB1583-MS1), Source: AIB2828-01** | | | | | | | | | | | |
| 11Cl-PF3OUdS | 28 | 2.0 | ng/L | 30 | ND | 94 | 70-130 | | | 02/25/25 | |
| ADONA | 29 | 2.0 | ng/L | 30 | ND | 98 | 70-130 | | | 02/25/25 | |
| 9Cl-PF3ONS | 30 | 2.0 | ng/L | 30 | ND | 101 | 70-130 | | | 02/25/25 | |
| HFPO-DA | 31 | 2.0 | ng/L | 30 | ND | 106 | 70-130 | | | 02/25/25 | |
| NEtFOSAA | 27 | 3.0 | ng/L | 30 | ND | 92 | 70-130 | | | 02/25/25 | |
| NMeFOSAA | 30 | 3.0 | ng/L | 30 | ND | 101 | 70-130 | | | 02/25/25 | |
| PFBS | 34 | 2.0 | ng/L | 30 | 4.1 | 100 | 70-130 | | | 02/25/25 | |
| PFHxS | 31 | 2.0 | ng/L | 30 | ND | 105 | 70-130 | | | 02/25/25 | |
| PFOS | 31 | 2.0 | ng/L | 30 | ND | 100 | 70-130 | | | 02/25/25 | |
| PFDoA | 28 | 2.0 | ng/L | 30 | ND | 93 | 70-130 | | | 02/25/25 | |
| PFDA | 30 | 2.0 | ng/L | 30 | ND | 102 | 70-130 | | | 02/25/25 | |
| PFHpA | 30 | 2.0 | ng/L | 30 | ND | 100 | 70-130 | | | 02/25/25 | |
| PFHxA | 30 | 2.0 | ng/L | 30 | ND | 101 | 70-130 | | | 02/25/25 | |
| PFNA | 29 | 2.0 | ng/L | 30 | ND | 98 | 70-130 | | | 02/25/25 | |
| PFOA | 31 | 2.0 | ng/L | 30 | ND | 106 | 70-130 | | | 02/25/25 | |
| PFTDA | 26 | 2.0 | ng/L | 30 | ND | 87 | 70-130 | | | 02/25/25 | |
| PFTrDA | 27 | 2.0 | ng/L | 30 | ND | 92 | 70-130 | | | 02/25/25 | |
| PFUnDA | 29 | 2.0 | ng/L | 30 | ND | 100 | 70-130 | | | 02/25/25 | |
| *Surrogate: 13C2-PFHxA* | *160* | | | *160* | | *103* | *70-130* | | | 02/25/25 | |
| *Surrogate: 13C2-PFDA* | *160* | | | *160* | | *103* | *70-130* | | | 02/25/25 | |
| *Surrogate: 13C3-HFPO-DA* | *160* | | | *160* | | *103* | *70-130* | | | 02/25/25 | |
| *Surrogate: d5-NEtFOSAA* | *140* | | | *160* | | *91* | *70-130* | | | 02/25/25 | |
| **Matrix Spike Dup (AIB1583-MSD1), Source: AIB2828-01** | | | | | | | | | | | |
| 11Cl-PF3OUdS | 30 | 2.0 | ng/L | 31 | ND | 99 | 70-130 | 9 | 30 | 02/25/25 | |
| ADONA | 30 | 2.0 | ng/L | 31 | ND | 98 | 70-130 | 4 | 30 | 02/25/25 | |
| 9Cl-PF3ONS | 32 | 2.0 | ng/L | 31 | ND | 106 | 70-130 | 9 | 30 | 02/25/25 | |
| HFPO-DA | 32 | 2.0 | ng/L | 31 | ND | 104 | 70-130 | 2 | 30 | 02/25/25 | |
| NEtFOSAA | 29 | 3.0 | ng/L | 31 | ND | 94 | 70-130 | 7 | 30 | 02/25/25 | |
| NMeFOSAA | 29 | 3.0 | ng/L | 31 | ND | 95 | 70-130 | 3 | 30 | 02/25/25 | |
| PFBS | 35 | 2.0 | ng/L | 31 | 4.1 | 102 | 70-130 | 5 | 30 | 02/25/25 | |
| PFHxS | 33 | 2.0 | ng/L | 31 | ND | 107 | 70-130 | 6 | 30 | 02/25/25 | |
| PFOS | 33 | 2.0 | ng/L | 31 | ND | 102 | 70-130 | 5 | 30 | 02/25/25 | |

BSK Associates Laboratory Fresno
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Fresno, CA 93727
559-497-2888 (Main)



## *BSK Associates Laboratory Fresno*

## Organics Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EPA 537.1 - Quality Control** | | | | | | | | | | | |
| **Batch: AIB1583** | | | | | | | | | | Prepared: 2/24/2025 | |
| **Prep Method: EPA 537.1** | | | | | | | | | | Analyst: CMF | |
| **Matrix Spike Dup (AIB1583-MSD1), Source: AIB2828-01** | | | | | | | | | | | |
| PFDoA | 29 | 2.0 | ng/L | 31 | ND | 93 | 70-130 | 4 | 30 | 02/25/25 | |
| PFDA | 31 | 2.0 | ng/L | 31 | ND | 101 | 70-130 | 2 | 30 | 02/25/25 | |
| PFHpA | 30 | 2.0 | ng/L | 31 | ND | 99 | 70-130 | 2 | 30 | 02/25/25 | |
| PFHxA | 31 | 2.0 | ng/L | 31 | ND | 101 | 70-130 | 3 | 30 | 02/25/25 | |
| PFNA | 30 | 2.0 | ng/L | 31 | ND | 99 | 70-130 | 5 | 30 | 02/25/25 | |
| PFOA | 32 | 2.0 | ng/L | 31 | ND | 104 | 70-130 | 2 | 30 | 02/25/25 | |
| PFTDA | 28 | 2.0 | ng/L | 31 | ND | 91 | 70-130 | 9 | 30 | 02/25/25 | |
| PFTrDA | 29 | 2.0 | ng/L | 31 | ND | 94 | 70-130 | 6 | 30 | 02/25/25 | |
| PFUnDA | 30 | 2.0 | ng/L | 31 | ND | 98 | 70-130 | 2 | 30 | 02/25/25 | |
| *Surrogate: 13C2-PFHxA* | *170* | | | *160* | | *103* | *70-130* | | | 02/25/25 | |
| *Surrogate: 13C2-PFDA* | *170* | | | *160* | | *106* | *70-130* | | | 02/25/25 | |
| *Surrogate: 13C3-HFPO-DA* | *160* | | | *160* | | *100* | *70-130* | | | 02/25/25 | |
| *Surrogate: d5-NEtFOSAA* | *150* | | | *160* | | *95* | *70-130* | | | 02/25/25 | |
| **EPA 537.1 - Quality Control** | | | | | | | | | | | |
| **Batch: AIB1821** | | | | | | | | | | Prepared: 2/26/2025 | |
| **Prep Method: EPA 537.1** | | | | | | | | | | Analyst: JNG | |
| **Blank (AIB1821-BLK1)** | | | | | | | | | | | |
| 11Cl-PF3OUdS | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| ADONA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| 9Cl-PF3ONS | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| HFPO-DA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| NEtFOSAA | ND | 3.00 | ng/L | | | | | | | 02/27/25 | |
| NMeFOSAA | ND | 3.00 | ng/L | | | | | | | 02/27/25 | |
| PFBS | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFHxS | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFOS | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFDoA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFDA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFHpA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFHxA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFNA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFOA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFTDA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFTrDA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| PFUnDA | ND | 2.00 | ng/L | | | | | | | 02/27/25 | |
| *Surrogate: 13C2-PFHxA* | *174* | | | *160* | | *109* | *70-130* | | | 02/27/25 | |
| *Surrogate: 13C2-PFDA* | *182* | | | *160* | | *114* | *70-130* | | | 02/27/25 | |
| *Surrogate: 13C3-HFPO-DA* | *166* | | | *160* | | *104* | *70-130* | | | 02/27/25 | |
| *Surrogate: d5-NEtFOSAA* | *169* | | | *160* | | *106* | *70-130* | | | 02/27/25 | |

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)



## *BSK Associates Laboratory Fresno*

## Organics Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EPA 537.1 - Quality Control** | | | | | | | | | | | |
| **Batch: AIB1821** | | | | | | | | | | Prepared: 2/26/2025 | |
| **Prep Method: EPA 537.1** | | | | | | | | | | Analyst: JNG | |
| **Blank Spike (AIB1821-BS1)** | | | | | | | | | | | |
| 11Cl-PF3OUdS | 1.87 | 2.00 | ng/L | 2.00 | ND | 93 | 70-130 | | | 02/27/25 | |
| ADONA | 2.09 | 2.00 | ng/L | 2.00 | ND | 105 | 70-130 | | | 02/27/25 | |
| 9Cl-PF3ONS | 1.99 | 2.00 | ng/L | 2.00 | ND | 99 | 70-130 | | | 02/27/25 | |
| HFPO-DA | 2.08 | 2.00 | ng/L | 2.00 | ND | 104 | 70-130 | | | 02/27/25 | |
| NEtFOSAA | 1.95 | 3.00 | ng/L | 2.00 | ND | 98 | 70-130 | | | 02/27/25 | |
| NMeFOSAA | 2.07 | 3.00 | ng/L | 2.00 | ND | 103 | 70-130 | | | 02/27/25 | |
| PFBS | 2.14 | 2.00 | ng/L | 2.00 | ND | 107 | 70-130 | | | 02/27/25 | |
| PFHxS | 2.18 | 2.00 | ng/L | 2.00 | ND | 109 | 70-130 | | | 02/27/25 | |
| PFOS | 2.12 | 2.00 | ng/L | 2.00 | ND | 106 | 70-130 | | | 02/27/25 | |
| PFDoA | 2.04 | 2.00 | ng/L | 2.00 | ND | 102 | 70-130 | | | 02/27/25 | |
| PFDA | 2.28 | 2.00 | ng/L | 2.00 | ND | 114 | 70-130 | | | 02/27/25 | |
| PFHpA | 2.18 | 2.00 | ng/L | 2.00 | ND | 109 | 70-130 | | | 02/27/25 | |
| PFHxA | 2.31 | 2.00 | ng/L | 2.00 | ND | 116 | 70-130 | | | 02/27/25 | |
| PFNA | 2.05 | 2.00 | ng/L | 2.00 | ND | 103 | 70-130 | | | 02/27/25 | |
| PFOA | 2.33 | 2.00 | ng/L | 2.00 | ND | 116 | 70-130 | | | 02/27/25 | |
| PFTDA | 1.91 | 2.00 | ng/L | 2.00 | ND | 95 | 70-130 | | | 02/27/25 | |
| PFTrDA | 2.05 | 2.00 | ng/L | 2.00 | ND | 103 | 70-130 | | | 02/27/25 | |
| PFUnDA | 2.14 | 2.00 | ng/L | 2.00 | ND | 107 | 70-130 | | | 02/27/25 | |
| *Surrogate: 13C2-PFHxA* | *165* | | | *160* | | *103* | *70-130* | | | 02/27/25 | |
| *Surrogate: 13C2-PFDA* | *172* | | | *160* | | *108* | *70-130* | | | 02/27/25 | |
| *Surrogate: 13C3-HFPO-DA* | *166* | | | *160* | | *104* | *70-130* | | | 02/27/25 | |
| *Surrogate: d5-NEtFOSAA* | *164* | | | *160* | | *102* | *70-130* | | | 02/27/25 | |
| **Matrix Spike (AIB1821-MS1), Source: AIB3161-05** | | | | | | | | | | | |
| 11Cl-PF3OUdS | 9.66 | 2.00 | ng/L | 9.54 | ND | 101 | 70-130 | | | 02/27/25 | |
| ADONA | 9.58 | 2.00 | ng/L | 9.54 | ND | 100 | 70-130 | | | 02/27/25 | |
| 9Cl-PF3ONS | 9.89 | 2.00 | ng/L | 9.54 | ND | 104 | 70-130 | | | 02/27/25 | |
| HFPO-DA | 9.27 | 2.00 | ng/L | 9.54 | ND | 97 | 70-130 | | | 02/27/25 | |
| NEtFOSAA | 10.5 | 3.00 | ng/L | 9.54 | ND | 110 | 70-130 | | | 02/27/25 | |
| NMeFOSAA | 8.36 | 3.00 | ng/L | 9.54 | ND | 88 | 70-130 | | | 02/27/25 | |
| PFBS | 11.9 | 2.00 | ng/L | 9.54 | 2.23 | 101 | 70-130 | | | 02/27/25 | |
| PFHxS | 10.5 | 2.00 | ng/L | 9.54 | ND | 102 | 70-130 | | | 02/27/25 | |
| PFOS | 15.7 | 2.00 | ng/L | 9.54 | 5.83 | 103 | 70-130 | | | 02/27/25 | |
| PFDoA | 9.77 | 2.00 | ng/L | 9.54 | ND | 102 | 70-130 | | | 02/27/25 | |
| PFDA | 10.1 | 2.00 | ng/L | 9.54 | ND | 106 | 70-130 | | | 02/27/25 | |
| PFHpA | 10.2 | 2.00 | ng/L | 9.54 | ND | 97 | 70-130 | | | 02/27/25 | |
| PFHxA | 11.6 | 2.00 | ng/L | 9.54 | ND | 102 | 70-130 | | | 02/27/25 | |
| PFNA | 9.50 | 2.00 | ng/L | 9.54 | ND | 100 | 70-130 | | | 02/27/25 | |
| PFOA | 13.5 | 2.00 | ng/L | 9.54 | 3.75 | 103 | 70-130 | | | 02/27/25 | |
| PFTDA | 9.47 | 2.00 | ng/L | 9.54 | ND | 99 | 70-130 | | | 02/27/25 | |

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

**VIB0257**
**3/03/2025**

## *BSK Associates Laboratory Fresno*

## Organics Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EPA 537.1 - Quality Control** | | | | | | | | | | | |
| **Batch: AIB1821** | | | | | | | | | | Prepared: 2/26/2025 | |
| **Prep Method: EPA 537.1** | | | | | | | | | | Analyst: JNG | |
| **Matrix Spike (AIB1821-MS1), Source: AIB3161-05** | | | | | | | | | | | |
| PFTrDA | 9.24 | 2.00 | ng/L | 9.54 | ND | 97 | 70-130 | | | 02/27/25 | |
| PFUnDA | 9.35 | 2.00 | ng/L | 9.54 | ND | 98 | 70-130 | | | 02/27/25 | |
| *Surrogate: 13C2-PFHxA* | *152* | | | *153* | | *99* | *70-130* | | | 02/27/25 | |
| *Surrogate: 13C2-PFDA* | *163* | | | *153* | | *107* | *70-130* | | | 02/27/25 | |
| *Surrogate: 13C3-HFPO-DA* | *156* | | | *153* | | *102* | *70-130* | | | 02/27/25 | |
| *Surrogate: d5-NEtFOSAA* | *149* | | | *153* | | *97* | *70-130* | | | 02/27/25 | |
| **Matrix Spike Dup (AIB1821-MSD1), Source: AIB3161-05** | | | | | | | | | | | |
| 11Cl-PF3OUdS | 10.3 | 2.00 | ng/L | 10.0 | ND | 102 | 70-130 | 6 | 30 | 02/27/25 | |
| ADONA | 10.1 | 2.00 | ng/L | 10.0 | ND | 101 | 70-130 | 5 | 30 | 02/27/25 | |
| 9Cl-PF3ONS | 10.3 | 2.00 | ng/L | 10.0 | ND | 103 | 70-130 | 4 | 30 | 02/27/25 | |
| HFPO-DA | 10.4 | 2.00 | ng/L | 10.0 | ND | 103 | 70-130 | 11 | 30 | 02/27/25 | |
| NEtFOSAA | 9.76 | 3.00 | ng/L | 10.0 | ND | 97 | 70-130 | 7 | 30 | 02/27/25 | |
| NMeFOSAA | 9.76 | 3.00 | ng/L | 10.0 | ND | 97 | 70-130 | 15 | 30 | 02/27/25 | |
| PFBS | 12.6 | 2.00 | ng/L | 10.0 | 2.23 | 103 | 70-130 | 6 | 30 | 02/27/25 | |
| PFHxS | 10.8 | 2.00 | ng/L | 10.0 | ND | 101 | 70-130 | 3 | 30 | 02/27/25 | |
| PFOS | 16.1 | 2.00 | ng/L | 10.0 | 5.83 | 103 | 70-130 | 3 | 30 | 02/27/25 | |
| PFDoA | 10.4 | 2.00 | ng/L | 10.0 | ND | 103 | 70-130 | 6 | 30 | 02/27/25 | |
| PFDA | 10.5 | 2.00 | ng/L | 10.0 | ND | 104 | 70-130 | 4 | 30 | 02/27/25 | |
| PFHpA | 11.0 | 2.00 | ng/L | 10.0 | ND | 101 | 70-130 | 8 | 30 | 02/27/25 | |
| PFHxA | 12.3 | 2.00 | ng/L | 10.0 | ND | 104 | 70-130 | 6 | 30 | 02/27/25 | |
| PFNA | 10.3 | 2.00 | ng/L | 10.0 | ND | 103 | 70-130 | 8 | 30 | 02/27/25 | |
| PFOA | 13.8 | 2.00 | ng/L | 10.0 | 3.75 | 100 | 70-130 | 2 | 30 | 02/27/25 | |
| PFTDA | 10.2 | 2.00 | ng/L | 10.0 | ND | 102 | 70-130 | 8 | 30 | 02/27/25 | |
| PFTrDA | 10.0 | 2.00 | ng/L | 10.0 | ND | 100 | 70-130 | 8 | 30 | 02/27/25 | |
| PFUnDA | 10.2 | 2.00 | ng/L | 10.0 | ND | 102 | 70-130 | 9 | 30 | 02/27/25 | |
| *Surrogate: 13C2-PFHxA* | *169* | | | *161* | | *105* | *70-130* | | | 02/27/25 | |
| *Surrogate: 13C2-PFDA* | *172* | | | *161* | | *107* | *70-130* | | | 02/27/25 | |
| *Surrogate: 13C3-HFPO-DA* | *164* | | | *161* | | *102* | *70-130* | | | 02/27/25 | |
| *Surrogate: d5-NEtFOSAA* | *152* | | | *161* | | *95* | *70-130* | | | 02/27/25 | |