

Rye Water District

Sampling Results for Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

Issue Date: 19 Feb 2020

| Garland Well | Date Sampled | PFAS Results            |                         |          |          | Analytical Method |
|--------------|--------------|-------------------------|-------------------------|----------|----------|-------------------|
|              |              | PFOS*                   | PFOA*                   | PFHxS    | PFNA     |                   |
|              | Apr 2016     | 6 ppt                   | 6 ppt                   | ND       | ND       | 537               |
|              | Jan 2017     | 7.8 ppt<br>6.9(DUP) ppt | 7.8 ppt<br>7.1(DUP) ppt | ND<br>ND | ND<br>ND |                   |
|              | Jul 2017     | 11 ppt                  | 10 ppt                  | 5 ppt    | ND       | PFC Isotope       |
|              | Aug 2017     | 6 ppt                   | 5 ppt                   | 3 ppt    | ND       |                   |
|              | Sept 2017    | 6 ppt                   | 7 ppt                   | 3 ppt    | ND       |                   |
|              | Oct 2017     | 4 ppt                   | 5 ppt                   | ND       | ND       |                   |
|              | Nov 2017     | 5 ppt                   | 4 ppt                   | ND       | ND       |                   |
|              | Dec 2017     | 4 ppt                   | 5 ppt                   | ND       | ND       |                   |
|              | Jan 2018     | 6 ppt                   | 5 ppt                   | ND       | ND       |                   |
|              | Feb 2018     | ND                      | 4 ppt                   | ND       | ND       |                   |
|              | Mar 2018     | 6 ppt                   | 5 ppt                   | ND       | ND       |                   |
|              | Apr 2018     | ND                      | 6 ppt                   | ND       | ND       |                   |
|              | May 2018     | ND                      | 7 ppt                   | ND       | ND       |                   |
|              | June 2018    | 5 ppt                   | 7 ppt                   | ND       | ND       |                   |
|              | July 2018    | 7 ppt                   | 7 ppt                   | ND       | ND       |                   |
|              | Aug 2018     | 6 ppt                   | 6 ppt                   | ND       | ND       |                   |
|              | Sept 2018    | 4 ppt                   | 4 ppt                   | ND       | ND       |                   |
|              | Oct 2018     | 7 ppt                   | 6 ppt                   | ND       | ND       |                   |
|              | Nov 2018     | 6 ppt                   | 6 ppt                   | ND       | ND       |                   |
|              | Dec 2018     | 4 ppt                   | 6 ppt                   | ND       | ND       | PFC Isotope       |
|              | Jan 2019     | 5 ppt                   | 7 ppt                   | ND       | ND       | 537               |
|              | Feb 2019     | 7 ppt                   | 8 ppt                   | ND       | ND       | PFC Isotope       |
|              | Mar 2019     | 5 ppt                   | 6 ppt                   | ND       | ND       |                   |
|              | Apr 2019     | ND                      | 5 ppt                   | ND       | ND       |                   |
|              | May 2019     | 6 ppt                   | 6 ppt                   | ND       | ND       |                   |
|              | June 2019    | ND                      | 6 ppt                   | ND       | ND       |                   |
|              | July 2019    | 6 ppt                   | 5 ppt                   | ND       | ND       |                   |
|              | Aug 2019     | 6 ppt                   | 6 ppt                   | ND       | ND       |                   |
|              | Sept 2019    | 5 ppt                   | 5 ppt                   | ND       | ND       | 537               |
|              | Oct 2019     | 5 ppt                   | 5 ppt                   | ND       | ND       |                   |
|              | Nov 2019     | 5 ppt                   | 5 ppt                   | ND       | ND       |                   |
|              | Dec 2019     | 6.50 ppt                | 7.33 ppt                | ND       | ND       | NH-537-Isotope    |
|              | Jan 2020     | 4.55 ppt                | 7.62 ppt                | ND       | ND       |                   |

ppt = parts per trillion (same as ng/L); ND = Non Detect

\* EPA Health Advisory for combined PFOS and PFOA values is 70 ppt

| Bailey Well | Date Sampled | PFAS Results |          |       |      | Analytical Method |
|-------------|--------------|--------------|----------|-------|------|-------------------|
|             |              | PFOS*        | PFOA*    | PFHxS | PFNA |                   |
|             | Apr 2016     | ND           | ND       | ND    | ND   | 537               |
|             | Jan 2017     | ND           | 2.5 ppt  | ND    | ND   |                   |
|             | Jul 2017     | ND           | ND       | ND    | ND   | PFC Isotope       |
|             | Aug 2017     | ND           | ND       | ND    | ND   |                   |
|             | Sept 2017    | ND           | ND       | ND    | ND   |                   |
|             | Oct 2017     | ND           | ND       | ND    | ND   |                   |
|             | Nov 2017     | ND           | ND       | ND    | ND   |                   |
|             | Dec 2017     | ND           | ND       | ND    | ND   |                   |
|             | Jan 2018     | ND           | ND       | ND    | ND   |                   |
|             | Feb 2018     | ND           | ND       | ND    | ND   |                   |
|             | Mar 2018     | ND           | ND       | ND    | ND   |                   |
|             | Apr 2018     | ND           | ND       | ND    | ND   |                   |
|             | May 2018     | ND           | ND       | ND    | ND   |                   |
|             | June 2018    | ND           | ND       | ND    | ND   |                   |
|             | July 2018    | ND           | ND       | ND    | ND   |                   |
|             | Aug 2018     | ND           | ND       | ND    | ND   |                   |
|             | Sept 2018    | ND           | ND       | ND    | ND   |                   |
|             | Oct 2018     | ND           | ND       | ND    | ND   |                   |
|             | Nov 2018     | ND           | ND       | ND    | ND   | 537               |
|             | Dec 2018     | ND           | ND       | ND    | ND   | PFC Isotope       |
|             | Jan 2019     | ND           | ND       | ND    | ND   | 537               |
|             | Feb 2019     | ND           | ND       | ND    | ND   | PFC Isotope       |
|             | Mar 2019     | ND           | ND       | ND    | ND   |                   |
|             | Apr 2019     | ND           | ND       | ND    | ND   |                   |
|             | May 2019     | ND           | ND       | ND    | ND   |                   |
|             | June 2019    | ND           | ND       | ND    | ND   |                   |
|             | July 2019    | ND           | ND       | ND    | ND   |                   |
|             | Aug 2019     | ND           | ND       | ND    | ND   |                   |
|             | Sept 2019    | ND           | ND       | ND    | ND   |                   |
|             | Oct 2019     | ND           | ND       | ND    | ND   | 537               |
|             | Nov 2019     | ND           | ND       | ND    | ND   |                   |
|             | Dec 2019     | ND           | 2.43 ppt | ND    | ND   | NH-537-Isotope    |
|             | Jan 2020     | ND           | 2.42 ppt | ND    | ND   |                   |

ppt = parts per trillion (same as ng/L); ND = Non Detect

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| Cedar Run Well | Date Sampled | PFAS Results |          |       |      | Analytical Method |
|----------------|--------------|--------------|----------|-------|------|-------------------|
|                |              | PFOS*        | PFOA*    | PFHxS | PFNA |                   |
|                | Apr 2016     | ND           | 2 ppt    | ND    | ND   | 537               |
|                | Jan 2017     | ND           | 3 ppt    | ND    | ND   |                   |
|                | Jul 2017     | ND           | ND       | 3 ppt | ND   | PFC Isotope       |
|                | Aug 2017     | ND           | 2 ppt    | ND    | ND   |                   |
|                | Sept 2017    | ND           | ND       | ND    | ND   |                   |
|                | Oct 2017     | ND           | ND       | ND    | ND   |                   |
|                | Nov 2017     | ND           | ND       | ND    | ND   |                   |
|                | Dec 2017     | ND           | 2 ppt    | ND    | ND   |                   |
|                | Jan 2018     | ND           | 3 ppt    | ND    | ND   |                   |
|                | Feb 2018     | ND           | ND       | ND    | ND   |                   |
|                | Mar 2018     | ND           | ND       | ND    | ND   |                   |
|                | Apr 2018     | ND           | ND       | ND    | ND   |                   |
|                | May 2018     | ND           | ND       | ND    | ND   |                   |
|                | June 2018    | ND           | ND       | ND    | ND   |                   |
|                | July 2018    | ND           | 2 ppt    | ND    | ND   |                   |
|                | Aug 2018     | ND           | 2 ppt    | ND    | ND   |                   |
|                | Sept 2018    | ND           | 2 ppt    | ND    | ND   |                   |
|                | Oct 2018     | ND           | 3 ppt    | ND    | ND   |                   |
|                | Nov 2018     | ND           | 4 ppt    | ND    | ND   |                   |
|                | Dec 2018     | ND           | 3 ppt    | ND    | ND   | PFC Isotope       |
|                | Jan 2019     | ND           | 3 ppt    | ND    | ND   | 537               |
|                | Feb 2019     | ND           | ND       | ND    | ND   | PFC Isotope       |
|                | Mar 2019     | ND           | 4 ppt    | ND    | ND   |                   |
|                | Apr 2019     | ND           | 2 ppt    | ND    | ND   |                   |
|                | May 2019     | ND           | 2 ppt    | ND    | ND   |                   |
|                | June 2019    | ND           | 3 ppt    | ND    | ND   |                   |
|                | July 2019    | ND           | 4 ppt    | ND    | ND   |                   |
|                | Aug 2019     | ND           | 4 ppt    | ND    | ND   |                   |
|                | Sept 2019    | ND           | 4 ppt    | ND    | ND   |                   |
|                | Oct 2019     | ND           | 4 ppt    | ND    | ND   | 537               |
|                | Nov 2019     | ND           | 3 ppt    | ND    | ND   |                   |
|                | Dec 2019     | ND           | 5.11 ppt | ND    | ND   | NH-537-Isotope    |
|                | Jan 2020     | ND           | 5.67 ppt | ND    | ND   |                   |

ppt = parts per trillion (same as ng/L); ND = Non Detect

\* EPA Health Advisory for combined PFOS and PFOA values is 70 ppt

| System Sample                           | Date Sampled | PFAS Results |          |       |       | Analytical Method |             |
|-----------------------------------------|--------------|--------------|----------|-------|-------|-------------------|-------------|
|                                         |              | PFOS*        | PFOA*    | PFHxS | PFNA  |                   |             |
| (Taken @ Washington Road Storage Tanks) | Aug 2017     | 7 ppt        | 4 ppt    | ND    | ND    | PFC Isotope       |             |
|                                         | Sept 2017    | 5 ppt        | 3 ppt    | ND    | ND    |                   |             |
|                                         | Oct 2017     | 4 ppt        | 2 ppt    | ND    | 3 ppt |                   |             |
|                                         | Nov 2017     | 5 ppt        | 3 ppt    | ND    | ND    |                   |             |
|                                         | Dec 2017     | ND           | 3 ppt    | ND    | ND    |                   |             |
|                                         | Jan 2018     | ND           | 3 ppt    | ND    | ND    |                   |             |
|                                         | Feb 2018     | ND           | 3 ppt    | ND    | ND    |                   |             |
|                                         | Mar 2018     | ND           | 2 ppt    | ND    | ND    |                   |             |
|                                         | Apr 2018     | 5 ppt        | 3 ppt    | ND    | ND    |                   |             |
|                                         | May 2018     | ND           | 4 ppt    | ND    | ND    |                   |             |
|                                         | June 2018    | ND           | 5 ppt    | ND    | ND    |                   |             |
|                                         | July 2018    | 4 ppt        | 5 ppt    | ND    | ND    |                   |             |
|                                         | Aug 2018     | ND           | 4 ppt    | ND    | ND    |                   |             |
|                                         | Sept 2018    | ND           | 3 ppt    | ND    | ND    |                   |             |
|                                         | Oct 2018     | ND           | 4 ppt    | ND    | ND    |                   |             |
|                                         | Nov 2018     | 4 ppt        | 4 ppt    | ND    | ND    |                   | 537         |
|                                         | Dec 2018     | ND           | 3 ppt    | ND    | ND    |                   | PFC Isotope |
|                                         | Jan 2019     | 5 ppt        | 4 ppt    | ND    | ND    |                   | 537         |
|                                         | Feb 2019     | ND           | 5 ppt    | ND    | ND    | PFC Isotope       |             |
|                                         | Mar 2019     | ND           | 4 ppt    | ND    | ND    |                   |             |
|                                         | Apr 2019     | ND           | 3 ppt    | ND    | ND    |                   |             |
|                                         | May 2019     | ND           | 5 ppt    | ND    | ND    |                   |             |
|                                         | June 2019    | ND           | 4 ppt    | ND    | ND    |                   |             |
|                                         | July 2019    | ND           | 4 ppt    | ND    | ND    |                   |             |
|                                         | Aug 2019     | 4 ppt        | 4 ppt    | ND    | ND    |                   |             |
|                                         | Sept 2019    | ND           | 4 ppt    | ND    | ND    | 537               |             |
|                                         | Oct 2019     | 2 ppt        | 4 ppt    | ND    | ND    |                   |             |
|                                         | Nov 2019     | ND           | ND       | ND    | ND    |                   |             |
|                                         | Dec 2019     | 3.56 ppt     | 4.80 ppt | ND    | ND    | NH-537-Isotope    |             |
|                                         | Jan 2020     | 3.66 ppt     | 5.45 ppt | ND    | ND    |                   |             |

ppt = parts per trillion (same as ng/L); ND = Non Detect

\* **EPA Health Advisory** for combined PFOS and PFOA values is 70 ppt

| Analytical Process Information |                                                                          |                  |       |       |       |
|--------------------------------|--------------------------------------------------------------------------|------------------|-------|-------|-------|
| Analytical Method              | Dates Used                                                               | Detection Limits |       |       |       |
|                                |                                                                          | PFOS             | PFOA  | PFHxS | PFNA  |
| 537                            | Apr 2016<br>Nov 2018<br>Jan 2019                                         | 4 ppt            | 2 ppt | 3 ppt | 2 ppt |
| 537                            | Sep 2019<br>thru<br>Nov 2019                                             | 2 ppt            | 2 ppt | 2 ppt | 2 ppt |
| PFC Isotope Detect Limit       | Jul 2017<br>thru<br>Oct 2018<br>Dec 2018<br>Feb 2019<br>thru<br>Aug 2019 | 4 ppt            | 2 ppt | 3 ppt | 2 ppt |
| NH-537-Isotope                 | Dec 2019<br>Jan 2020                                                     | 2 ppt            | 2 ppt | 2 ppt | 2 ppt |

**\*Method Detection Limit:** Is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte. (40 CFR Appendix B part 136)

**\*\*Method Reporting Limit:** Is defined as the lowest amount of an analyte in a sample that can be quantitatively determined with stated, acceptable precision and accuracy under stated analytical conditions (i.e. the lower limit of quantitation).