

Rye Water District

Sampling Results for Perfluoroalkyl and Polyfluoroalkyl Substances<sup>1</sup> (PFAS) and 1,4 - Dioxane

Issue Date: 5 July 2019

Garland Well	Date Sampled	PFAS Results			Date Sampled	1,4 – Dioxane Results
		PFOS*	PFOA*	PFHxS		
	Apr 2016	6 ppt	6 ppt	ND	Apr 2016	ND
	Jan 2017	6.9 ppt 7.8(DUP) ppt	7.1 ppt 7.8(DUP) ppt	ND ND	Feb 2017	ND
	Jul 2017	11 ppt	10 ppt	5 ppt		Not Sampled
	Aug 2017	6 ppt	5 ppt	3 ppt		Not Sampled
	Sept 2017	6 ppt	7 ppt	3 ppt		Not Sampled
	Oct 2017	4 ppt	5 ppt	ND		Not Sampled
	Nov 2017	5 ppt	4 ppt	ND		Not Sampled
	Dec 2017	4 ppt	5 ppt	ND		Not Sampled
	Jan 2018	6 ppt	5 ppt	ND		Not Sampled
	Feb 2018	ND	4 ppt	ND	Feb 2018	ND
	Mar 2018	6 ppt	5 ppt	ND		Not Sampled
	Apr 2018	ND	6 ppt	ND		Not Sampled
	May 2018	ND	7 ppt	ND		Not Sampled
	June 2018	5 ppt	7 ppt	ND		Not Sampled
	July 2018	7 ppt	7 ppt	ND		Not Sampled
	Aug 2018	6 ppt	6 ppt	ND		Not Sampled
	Sept 2018	4 ppt	4 ppt	ND		Not Sampled
	Oct 2018	7 ppt	6 ppt	ND		Not Sampled
	Nov 2018	6 ppt	6 ppt	ND		Not Sampled
	Dec 2018	4 ppt	6 ppt	ND		Not Sampled
	Jan 2019	5 ppt	7 ppt	ND		Not Sampled
	Feb 2019	7 ppt	8 ppt	ND		Not Sampled
	Mar 2019	5 ppt	6 ppt	ND		Not Sampled
	Apr 2019	ND	5 ppt	ND	Apr 2019	ND
	May 2019	6 ppt	6 ppt	ND		Not Sampled

ppt = parts per trillion (same as ng/L)

ND = Non Detect

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

<sup>1</sup> Formally referred to as Perfluorinated Chemicals (PFC)

Bailey Well	Date Sampled	PFAS Results			Date Sampled	1,4-Dioxane Results
		PFOS*	PFOA*	PFHxS		
	Apr 2016	ND	ND	ND	Apr 2016	ND
	Jan 2017	ND	2.5 ppt	ND	Feb 2017	ND
	Jul 2017	ND	ND	ND		Not Sampled
	Aug 2017	ND	ND	ND		Not Sampled
	Sept 2017	ND	ND	ND		Not Sampled
	Oct 2017	ND	ND	ND		Not Sampled
	Nov 2017	ND	ND	ND		Not Sampled
	Dec 2017	ND	ND	ND		Not Sampled
	Jan 2018	ND	ND	ND		Not Sampled
	Feb 2018	ND	ND	ND	Feb 2018	ND
	Mar 2018	ND	ND	ND		Not Sampled
	Apr 2018	ND	ND	ND		Not Sampled
	May 2018	ND	ND	ND		Not Sampled
	June 2018	ND	ND	ND		Not Sampled
	July 2018	ND	ND	ND		Not Sampled
	Aug 2018	ND	ND	ND		Not Sampled
	Sept 2018	ND	ND	ND		Not Sampled
	Oct 2018	ND	ND	ND		Not Sampled
	Nov 2018	ND	ND	ND		Not Sampled
	Dec 2018	ND	ND	ND		Not Sampled
	Jan 2019	ND	ND	ND		Not Sampled
	Feb 2019	ND	ND	ND		Not Sampled
	Mar 2019	ND	ND	ND		Not Sampled
	Apr 2019	ND	ND	ND		Not Sampled
	May 2019	ND	ND	ND		Not Sampled

ppt = parts per trillion (same as ng/L)

ND = Non Detect

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Cedar Run Well	Date Sampled	PFAS Results			Date Sampled	1,4 – Dioxane Results
		PFOS*	PFOA*	PFHxS		
	Apr 2016	ND	2 ppt	ND	Apr 2016	ND
	Jan 2017	ND	3 ppt	ND	Feb 2017	ND
	Jul 2017	ND	ND	3 ppt		Not Sampled
	Aug 2017	ND	2 ppt	ND		Not Sampled
	Sept 2017	ND	ND	ND		Not Sampled
	Oct 2017	ND	ND	ND		Not Sampled
	Nov 2017	ND	ND	ND		Not Sampled
	Dec 2017	ND	2 ppt	ND		Not Sampled
	Jan 2018	ND	3 ppt	ND		Not Sampled
	Feb 2018	ND	ND	ND	Feb 2018	ND
	Mar 2018	ND	ND	ND		Not Sampled
	Apr 2018	ND	ND	ND		Not Sampled
	May 2018	ND	ND	ND		Not Sampled
	June 2018	ND	ND	ND		Not Sampled
	July 2018	ND	2 ppt	ND		Not Sampled
	Aug 2018	ND	2 ppt	ND		Not Sampled
	Sept 2018	ND	2 ppt	ND		Not Sampled
	Oct 2018	ND	3 ppt	ND		Not Sampled
	Nov 2018	ND	4 ppt	ND		Not Sampled
	Dec 2018	ND	3 ppt	ND		Not Sampled
	Jan 2019	ND	3 ppt	ND		Not Sampled
	Feb 2019	ND	ND	ND		Not Sampled
	Mar 2019	ND	4 ppt	ND		Not Sampled
	Apr 2019	ND	2 ppt	ND		Not Sampled
	May 2019	ND	2 ppt	ND		Not Sampled

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System Sample**	Date Sampled	PFAS Results		
		PFOS*	PFOA*	PFHxS
	Aug 2017	7 ppt	4 ppt	ND
	Sept 2017	5 ppt	3 ppt	ND
	Oct 2017	4 ppt	2 ppt	ND
	Nov 2017	5 ppt	3 ppt	ND
	Dec 2017	ND	3 ppt	ND
	Jan 2018	ND	3 ppt	ND
	Feb 2018	ND	3 ppt	ND
	Mar 2018	ND	2 ppt	ND
	Apr 2018	5 ppt	3 ppt	ND
	May 2018	ND	4 ppt	ND
	June 2018	ND	5 ppt	ND
	July 2018	4 ppt	5 ppt	ND
	Aug 2018	ND	4 ppt	ND
	Sept 2018	ND	3 ppt	ND
	Oct 2018	ND	4 ppt	ND
	Nov 2018	4 ppt	4 ppt	ND
	Dec 2018	ND	3 ppt	ND
	Jan 2019	5 ppt	4 ppt	ND
	Feb 2019	ND	5 ppt	ND
	Mar 2019	ND	4 ppt	ND
	Apr 2019	ND	3 ppt	ND
	May 2019	ND	5 ppt	ND

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\*\***System Sample** taken at booster station located at water tanks on Washington Road.

Sampling Process Information						
EPA Method	Date	PFOS	PFOA	PFHxS	Date	1,4-Dioxane
	Apr 2016 Jan 2019	537	537	537	Apr 2016	522
	Jan 2017	3535A	3535A	3535A	Feb 2017	522
	Jul 2017 thru Jan 2018	PFC Isotope	PFC Isotope	PFC Isotope		Not Sampled
	Feb 2018 Thru Dec 2018 Feb 2019 thru May 2019	PFC Isotope	PFC Isotope	PFC Isotope	Feb 2018 Apr 2019	522
MDL*	Apr 2016 Jan 2019	4 ppt	2 ppt	3 ppt	Apr 2016 Feb 2017 Feb 2018 Apr 2019	70 ppt 70 ppt 70 ppt 70 ppt
MRL**	Jan 2017	4.5 ppt	1.8 ppt	4.5 ppt	NA	NA
PFC Isotope Detect Limit	Jul 2017 thru Dec 2018 Feb 2019 thru May 2019	4 ppt	2 ppt	3 ppt	NA	NA

**\*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).