

2003 Maintenance Bypass Evaluation Impact on Great Miami River

Date	Uranium Concentration in Bypassed Water (ppb)	Uranium Concentration at Parshall Flume ² (ppb)	Background Uranium Concentration in GMR (ppb)	Uranium Concentration after Mixing Bypass Storm Water with GMR (ppb) ³	EPA Federal Drinking Water Standard (ppb)	OU5 ROD Final Remediation Level Uranium in GMR (ppb)	Year to Date Mass Discharge (pounds)
7/23	NA	42.8	1	1.05	30	530	289.55
7/22	NA	44.6	1	1.08	30	530	286.84
7/21	NA	45.4	1	1.04	30	530	284.06
6/11	NA	33.1	1	1.08	30	530	228.08
6/10	NA	42.2	1	1.13	30	530	226.17
6/9	NA	35.3	1	1.09	30	530	223.8
5/19	NA	24.1	1	1.03	30	530	199.84
5/18	NA	15.1	1	1.01	30	530	199.03
5/17	NA	16.5	1	1.01	30	530	198.61
5/16	NA	19.7	1	1.01	30	530	198.17
5/15	NA	20.9	1	1.01	30	530	197.63
5/14	NA	24.6	1	1.01	30	530	197.15
5/13	NA	46.2	1	1.02	30	530	196.48
5/12	808.2 ¹	224	1	1.09	30	530	195.2
5/11	824.2 ¹	152.7	1	1.04	30	530	187.06
5/10	NA	13	1	1	30	530	181.84
5/9	NA	13.2	1	1.01	30	530	181.52

NA – Not Available

¹ Storm water bypass occurred during maintenance activities approved by EPA in accordance with the OU5 ROD. Because it occurred during an approved maintenance activity, the storm water bypass days are not counted.

² The Parshall Flume facility is the last point where Fernald measures the blended flow and uranium concentration of discharge water to the Great Miami River.

³ Calculated estimate based on actual flow rates in the Great Miami River.