

2014 Mill River Dissolved Oxygen and Salinity Measurements

The Regional Water Authority (RWA) continued its annual summer dissolved oxygen (DO) and salinity monitoring in the Mill River downstream of the Lake Whitney water supply reservoir in 2014 to help document environmental conditions before and after the Whitney Water Treatment Plant was activated in 2005. Weekly measurements were taken from July through October at three stations in the early morning hours when the 14-day median lake level met criteria specified in the Management Plan. Weekly monitoring also occurred during the period from September 4 through October 11 when minimum flow releases through the dam were being made while the lake refilled following a manual drawdown for dam maintenance (<spillway).

DATE	Station	14-day Med. lake level (ft)	Depth (m)	Temp (°C)	Salinity (PSS)	pH	DO (mg/l)
7/3/2014	Spillway	0.27	0.5	26.3	0.15	9.2	8.2
7/3/2014	Plunge Pool		0.5	26.0	0.15	9.0	8.3
7/3/2014	Footbridge		0.5	25.8	0.15	8.7	6.2
7/3/2014	Footbridge		0.6	25.8	0.15	8.7	6.2
7/11/2014	Spillway	0.28	0.3	25.8	0.14	7.9	7.5
7/11/2014	Plunge Pool		0.3	25.1	0.14	8.1	7.9
7/11/2014	Footbridge		0.3	24.5	0.15	7.8	6.4
7/11/2014	Footbridge		0.8	25.5	0.14	7.5	6.2
7/18/2014	Spillway	0.28	0.5	24.5	0.14	7.5	7.8
7/18/2014	Plunge Pool		0.5	23.8	0.14	7.7	8.4
7/18/2014	Footbridge		0.5	23.1	0.15	7.7	6.8
7/18/2014	Footbridge		1.0	23.1	0.15	7.5	6.3
7/25/2014	Spillway	0.25	0.6	25.2	0.15	7.2	8.2
7/25/2014	Plunge Pool		0.4	24.3	0.15	7.4	8.2
7/25/2014	Footbridge		0.4	23.6	0.15	7.6	6.8
7/25/2014	Footbridge		0.8	23.6	0.15	7.5	6.6
9/5/2014	Spillway	< spillway	0.3	24.1	0.16	7.4	9.3
9/5/2014	Plunge Pool		0.3	23.8	0.16	7.6	8.1
9/5/2014	Footbridge		0.3	22.7	0.17	7.4	4.5
9/5/2014	Footbridge		0.8	22.5	0.17	7.2	4.1
9/13/2014	Spillway	< spillway	0.4	21.7	0.17	7.7	9.9
9/13/2014	Plunge Pool		0.3	21.0	0.17	8.1	9.3
9/13/2014	Footbridge		0.3	20.3	0.21	7.8	6.3
9/13/2014	Footbridge		0.6	20.4	0.21	7.7	6.0
9/20/2014	Spillway	< spillway	0.5	18.7	0.17	7.6	9.8
9/20/2014	Plunge Pool		0.4	18.2	0.17	7.8	9.4
9/20/2014	Footbridge		0.3	16.8	0.19	7.8	6.8
9/20/2014	Footbridge		0.5	16.8	0.19	7.7	6.8
9/27/2014	Spillway	< spillway	0.4	18.7	0.18	7.1	9.2
9/27/2014	Plunge Pool		0.4	18.3	0.18	7.2	9.3
9/27/2014	Footbridge		0.4	17.1	0.21	7.2	6.7
9/27/2014	Footbridge		0.6	17.2	0.30	7.1	6.2
10/4/2014	Spillway	< spillway	0.3	18.3	0.18	7.1	8.5
10/4/2014	Plunge Pool		0.4	17.9	0.18	7.3	9.0
10/4/2014	Footbridge		0.4	17.0	0.24	7.3	6.9
10/4/2014	Footbridge		0.6	17.3	0.37	7.2	6.3
10/11/14	Spillway	< spillway	0.2	16.8	0.18	6.8	5.0
10/11/14	Plunge Pool		0.4	16.4	0.17	7.0	8.5
10/11/14	Footbridge		0.2	15.2	0.18	7.1	6.8
10/11/14	Footbridge		0.5	15.2	0.18	7.1	6.5

Mill River DO & Salinity Monitoring Locations

