WWW.bearcreekwatershed.org

The Bear Creek Watershed Association protects and restores water and environmental quality within the Bear Creek Watershed from the effects of land use.

Clear Creek County Jefferson County City of Lakewood Town of Morrison Aspen Park Metropolitan District Brook Forest Inn Conifer Sanitation Association Conifer Metropolitan District Denver Water Department Evergreen Metropolitan District Forrest Hills Metropolitan District Genesee Sanitation & Water District Geneva Glen Jefferson County School District Kittredge Water & Sanitation District Tiny Town Foundation, Inc. West Jefferson County Metropolitan District Evergreen Trout Unlimited U.S. Army Corps of Engineers







BEAR CREEK RESERVOIR

Fact Sheet 7 Bear Creek Reservoir Monitoring Program Updated June 1, 2016

The routine monitoring program (P1) focuses on Turkey Creek drainage and Bear Creek drainage inputs (*BCWA PGO24 Bear Creek 2016 Sample Plan Version 2016.01*). The BCWA monitors discharge from Bear Creek Reservoir (Site 45) into lower Bear Creek. A central pool characterization of the reservoir is done near the dam (Site 40). A permanent buoy is used locate site 40. Lower

P1- Routine water quality monitoring at Bear Creek Reservoir (multiple vertical stations), Turkey Creek inflow to reservoir, Bear Creek inflow to reservoir, reservoir discharge into lower Bear Creek, and the lower edge of the watershed near Wadsworth. The P1 sites are long-term reference monitoring sites consistent with the intent of the monitoring program outlined in the Bear Creek Reservoir Control Regulation #74.

- Three (2016 monitoring at 40, 41, 420 Five (prior years) profile monitoring stations in reservoir.
- Continuous data collection since 1990

Bear Creek is monitored near Wadsworth (Site 90).

- Sample monthly in January, February, March, April, May, June, October, November, and December. Growing season samples taken twice in July, August, and September
- Monthly field profiles for temperature, dissolved oxygen, specific conductance, and pH
- Temperature probe string at site 40 from ice off to ice on that measures temperature every 30-minutes at four depths (1/2 to 2 meters)
- Station data for Secchi depth (clarity), total suspended sediments, chlorophyll a, nutrients (total phosphorus, dissolved phosphorus, total nitrogen, ammonia nitrogen, nitrate+nitrite nitrogen, and total organic nitrogen)
- Seasonal data for phytoplankton, zooplankton (historic), bacteria at the outfall (E. coli) and Wadsworth stations
- Bottom sediment study at 6 -17 sites for phosphorus, grain size, and total carbon.

Bear Creek Reservoir 10/9/2015 P1 Profile Stations

