

Spring Creek - Streamflow and Chemistry

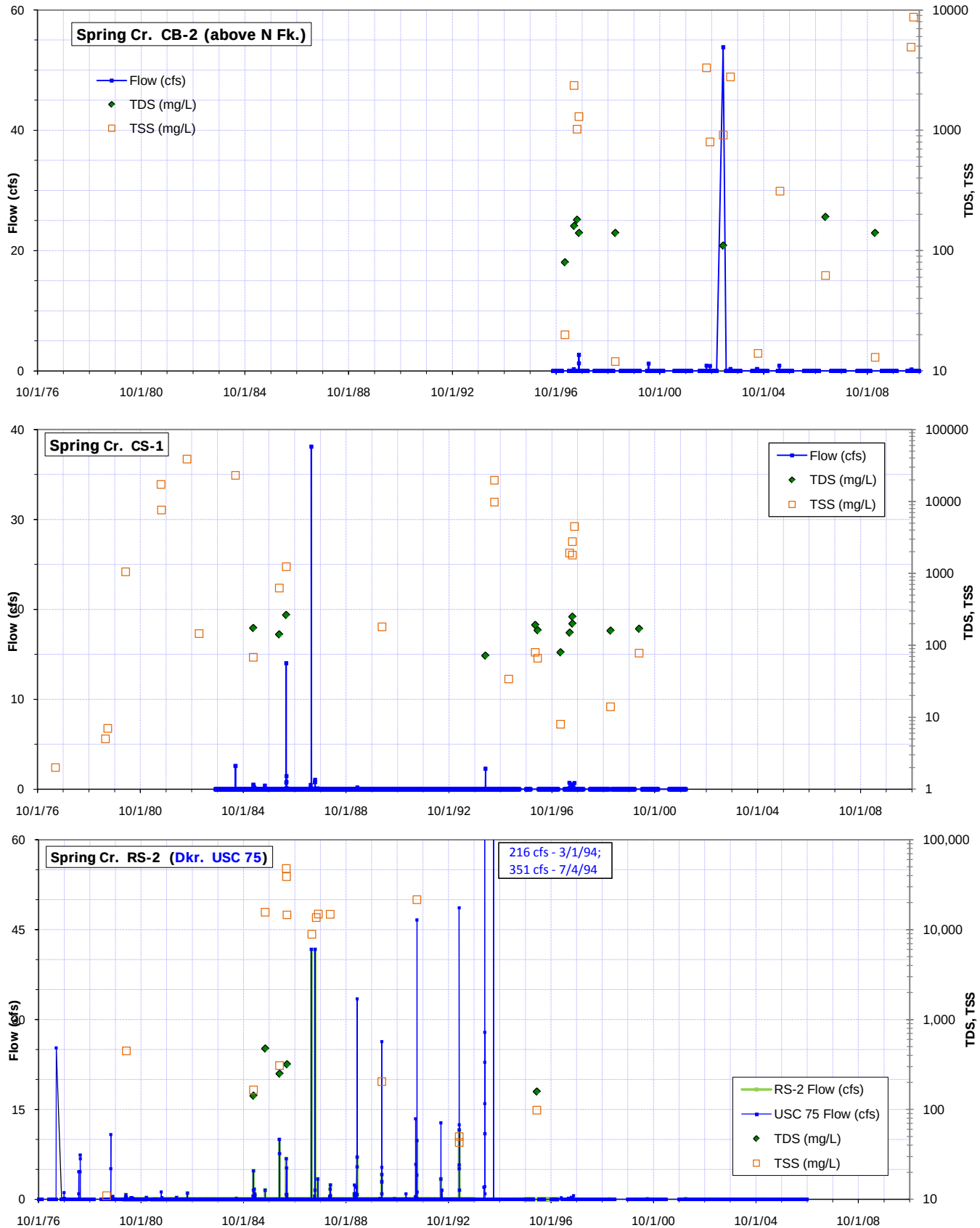


Figure 1. Streamflow hydrographs and water chemistry data for mainstem Spring Creek monitoring stations above, within and below mined areas at the Spring Creek mine (SCM) near Decker, MT. Monitoring locations include SCM sites CB-2 (active; above North Fork Spring Cr.), CS-1 (mined out ~12/2001; below North Fork Spring Creek), and Decker site RS-2 (active; below SCM mining); see Maps 1 and 2. Streamflow data given are mean daily flow rates (cubic feet/sec.; cfs); water chemistry data given include Total Dissolved Solids (TDS, mg/L), and Total Suspended Solids (TSS, mg/L); data from Spring Creek and Decker mines.

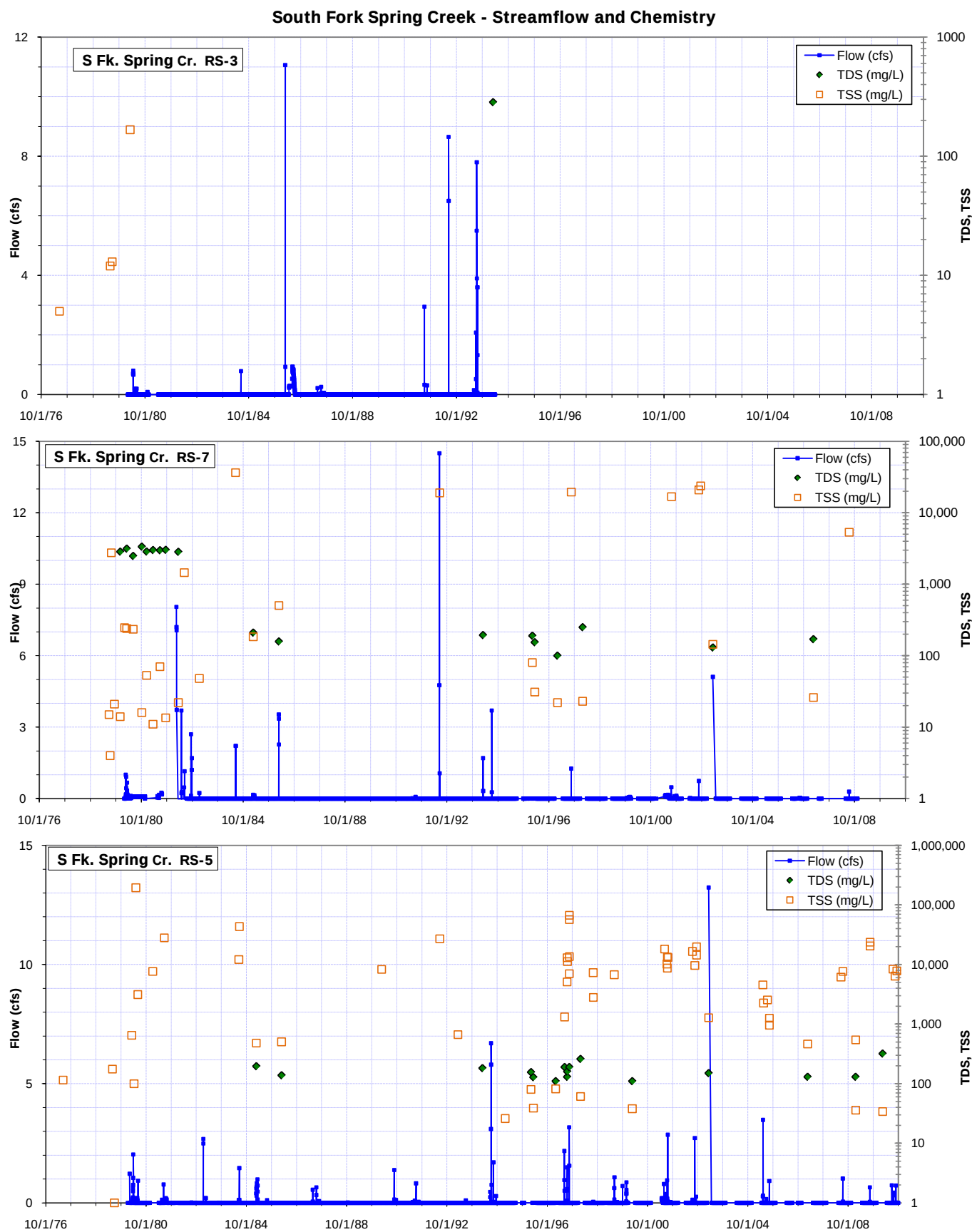


Figure 2. Streamflow hydrographs and water chemistry data for South Fork Spring Creek monitoring stations above, within and below mined areas at the Spring Creek mine (SCM) near Decker, MT. Monitoring locations include SCM sites RS-3 (inactive since ~5/96; above mining pits/below SCM South Fork Flood Control Reservoir), RS-7 (mined out ~2/2009; Pit 2 area), and RS-5 (active; below SCM mining); see Maps 1 and 2. Streamflow data given are mean daily flow rates (cubic feet/sec.; cfs); water chemistry data given include Total Dissolved Solids (TDS, mg/L), and Total Suspended Solids (TSS, mg/L); data from Spring Creek mine.

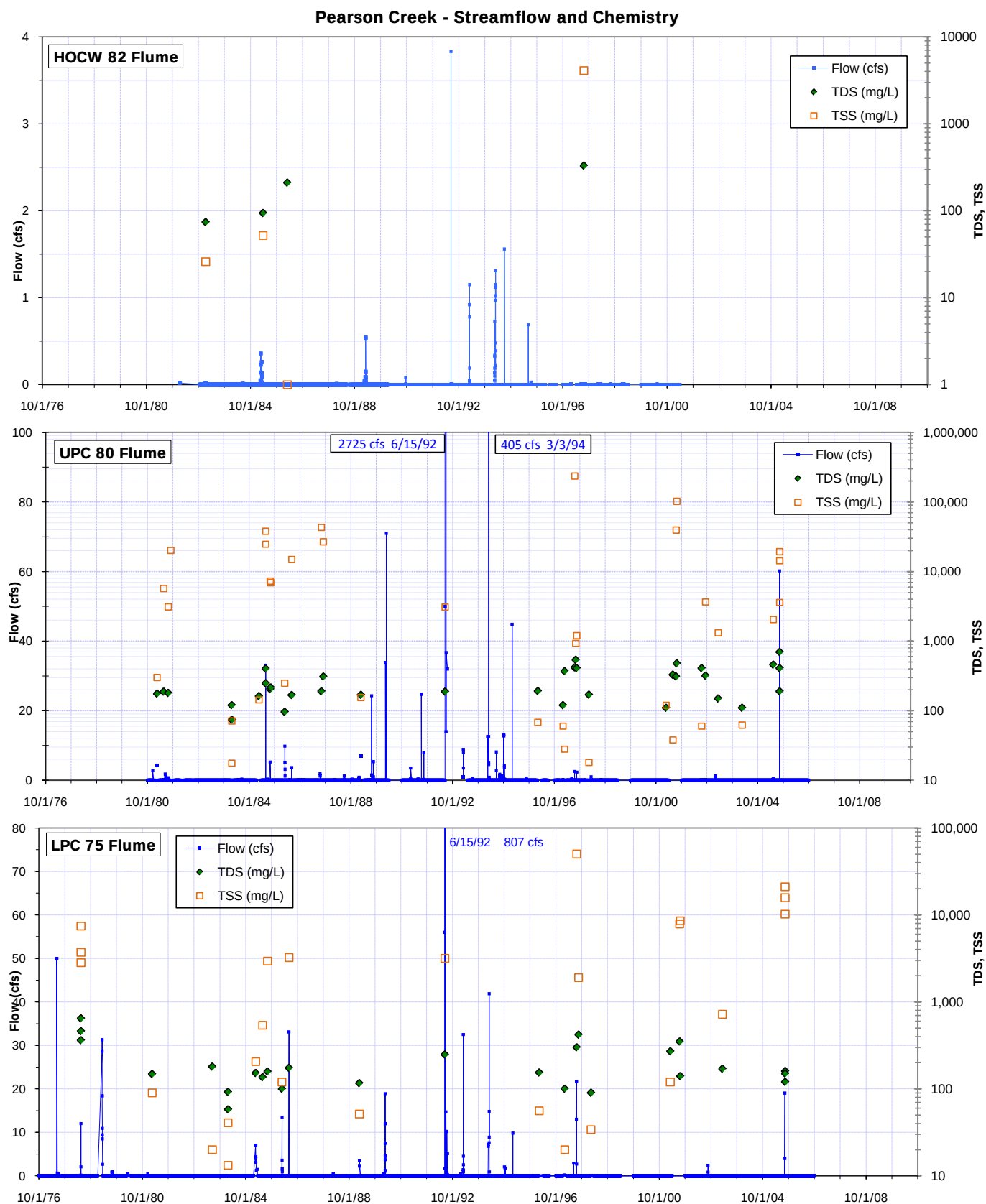


Figure 3. Streamflow hydrographs and water chemistry data for Pearson Creek, above and below proposed mining areas at the Spring Creek mine (SCM) near Decker, MT. Monitoring locations include Decker sites HOCW 82 (inactive since ~3/2001; small ephemeral tributary upstream of proposed SCM mining), UPC 80 (active; below proposed SCM mining), and LPC 75 (inactive/recorder removed 12/2007 prior to mining through; below lower edge of Decker mining, above Tongue R Reservoir); see Map 1. Streamflow data given are mean daily flow rates (cubic feet/sec.; cfs); water chemistry data given include Total Dissolved Solids (TDS, mg/L), and Total Suspended Solids (TSS, mg/L); data from Decker mine.

Tongue River - Streamflow and Chemistry

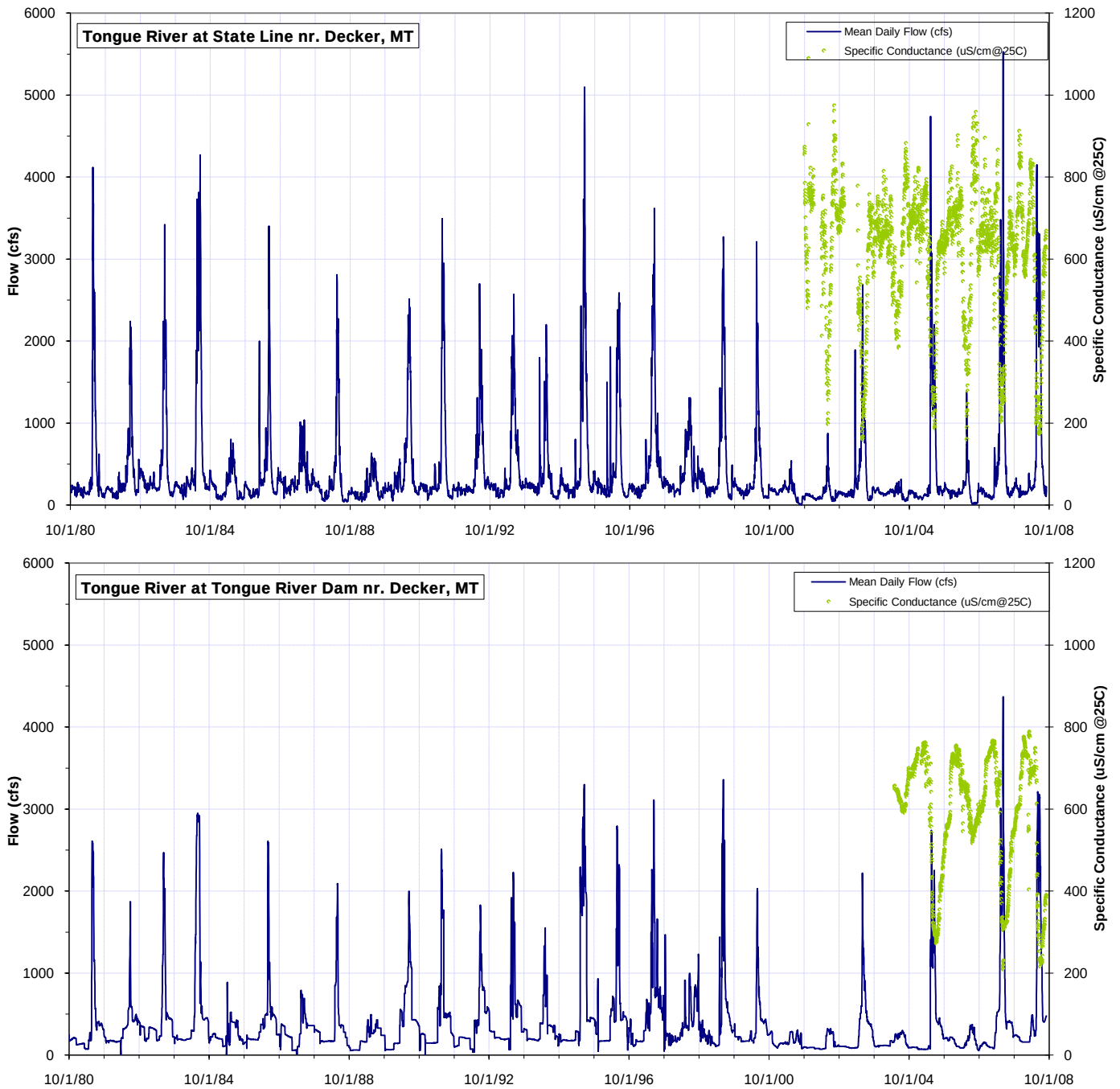


Figure 4. Streamflow and water chemistry data for USGS gaging stations above and below the Tongue River Reservoir near Decker, MT (USGS sites 06306300 and 06307500). The upper monitoring site is located just upstream of the Decker mine area, and the lower site about 10 miles to the north (~4 miles below the mine area) and just downstream of the Tongue River Dam. Data from USGS.