

3.3 WATER QUALITY SUMMARY OF REACH III

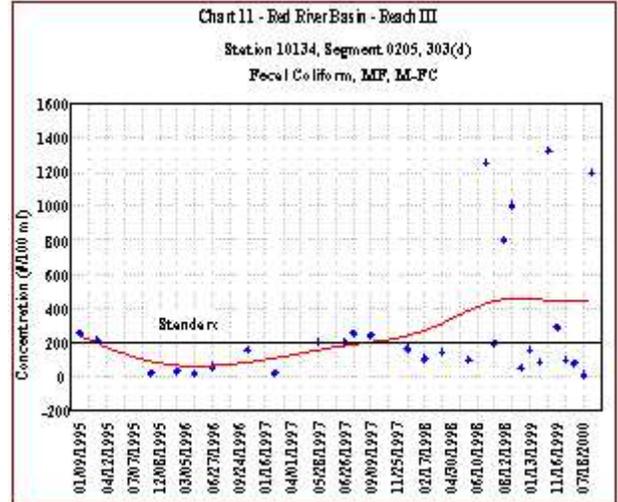
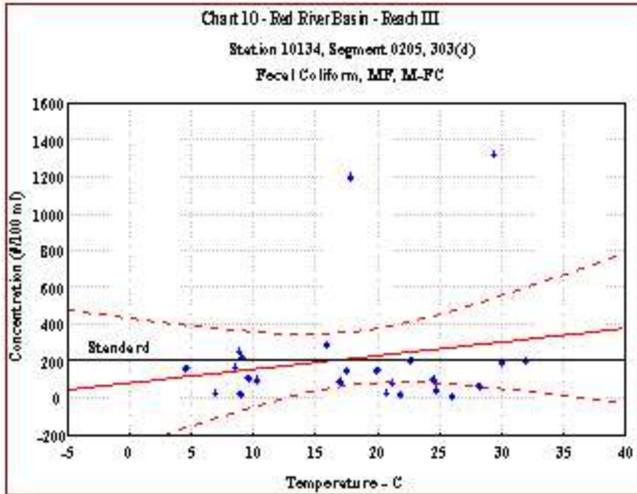
Basin Reach III represents the Pease River watershed from the confluence with the Red River to its headwaters, including the Red River main stem from the confluence of Cache Creek upstream to the confluence of Buck Creek and the Red River (Wichita County to Swisher/Briscoe/Floyd Counties). The five subwatersheds contained in Reach III have 5,734 square miles of contributing drainage in Texas and Oklahoma with 4,845 square miles in Texas.

There are five classified stream segments (0205, 0206, 0220, 0221, 0227) in this basin reach. There are 27 permitted municipal and industrial dischargers, 14 permitted solid waste disposal sites, 1,399 petroleum storage tanks, approximately four confined animal feeding operations, and 210,118 persons within this reach. There are nine water quality monitoring stations (5 routine and 4 systematic) that provided data for screening in this basin reach. The Authority conducted 64 monitoring events during this period and 2,254 parameters were evaluated.

Results of the data screening indicated that fecal coliform in segment 0205 was identified as the only parameter that exceeded the screening criteria and may warrant further study. Fecal coliform exceeded screening criteria in segment 0205 during the warmer months and appears to be a result of naturally occurring conditions coupled with extremely low flows. **Charts 10** and **11** depict the results of fecal coliform as compared to temperature and time.

Segment 0205 (Red River below the Pease River) and segment 0221 (Middle Fork of the Pease River) have both been included on the CWA §303(d) list of impaired water bodies due to elevated levels of fecal coliform and temperature, respectfully.

Segment 0205 maintains a very low contact recreation usage due to limited access to the river by the public. Therefore, the occasional exceedance of fecal coliform densities in this segment are a very low priority and attributable to storm water runoff of agricultural areas during rainfall events.



Continued monitoring of these constituents indicated that while fecal coliform continued to present abnormally high densities in segment 0205, temperature values in segment 0221 appeared to be normal for this climate region with only two parameters exceeding the stream standard over the period. Consideration should be given to removing temperature in segment 0221 from the CWA §303(d) list.

