

CAMS 743 North Concho River at Koenigheim Rd, San Angelo, TX: Real-time monitoring since 10/16/2007. Site deactivated 3/24/2011.

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- **Measurement Parameters:**

Dissolved Oxygen, pH, Specific Conductance, Temperature, and Sample Depth

- **Measurement Equipment:**

Greenspan CS4-1200 multiprobe - 10/16/2007 - 12/4/2008

YSI 6-Series multiprobe (optical dissolved oxygen sensor) installed on 12/4/2008 – 3/24/2011.

- **Data Collection Information:**

Multiprobe deployment tube configured with 48 evenly spaced 1-inch diameter holes per linear foot at the lower two feet of the deployment tube for the life of station.

Water body is eutrophic and typically has very low or no stream flow. During warmer months, deployment tube experienced heavy biologic fouling. Site operator seasonally adjusted station service intervals/deployment tube cleaning to more frequent intervals during warmer months of year. No records of deployment tube being cleaned with chimney brush prior to 1/18/2008.

According to the data, DO concentrations generally decreased during warmer months as deployment periods progressed despite more frequent service deployment tube cleanings and the use of optical DO sensors. Once multiprobes were exchanged, DO concentrations generally increased. This phenomenon was more pronounced when Greenspan CS4-1200s were utilized at the site. CWQMN staff speculates that due to the lack of stream flow and biological growth on the deployment tube micro-environments within the deployment tube might be occurring and multiprobe exchanges are causing water within the deployment to be exchanged. Multiprobe sensor fouling may also have contributed to decreased DO concentrations over the deployment period.

- **Multiprobe Data Quality Measurement Information:**

Sensor fouling can compromise data quality. No sensor fouling measurements were made throughout the life of the station, only sensor calibration drift measurements were being made for data qualification purposes.