

Middle Basin Water Quality

Review of Standards

- Dissolved Oxygen
 - 5.0 mg/l
- Nutrients
 - Nitrate+Nitrite
 - 2.76 mg/l streams
 - 0.8 mg/l reservoirs
 - Total Phosphorus
 - 0.32 mg/l streams
 - 0.18 mg/l reservoirs
- Chloride
 - 1409 = 200
 - 1410 = 500
 - 1416 = 50
- Algae
 - 11.6 $\mu\text{g/l}$ streams
 - 21.4 $\mu\text{g/l}$ reservoirs

Segment 1409

Colorado above Buchanan

- Chemistry

	Nitrate+Nitrite	Phosphorus	Oxygen	Chloride	Algae
1 year	0.267	0.057	8.60	45.6	13.7
5 year	0.321	0.113	8.39	52.2	13.6
18 years	0.375	0.134	8.27	72.4	12.4

- Biology

Fish	High
Aquatic Insects	High
Habitat	High
Diel Oxygen	High to Exceptional

Segment 1410

Colorado below Ivie

	Nitrate+Nitrite	Phosphorus	Oxygen	Chloride	Algae
1 year	0.061	0.037	8.89	406.1	16.5
5 year	0.064	0.062	8.53	263.7	11.8
22 years	0.069	0.124	8.21	263.3	8.7

Segment 1416

San Saba River

	Nitrate+Nitrite	Phosphorus	Oxygen	Chloride	Algae
1 year	0.527	0.227	8.09	22.5	11.0
5 year	0.478	0.145	8.17	25.3	7.8
18 years	0.432	0.117	7.78	25.5	5.6

Fish

High

Aquatic Insects

High to Exceptional

Habitat

High

Diel Oxygen

High to Exceptional

Segment 1416A

Brady Creek

	Nitrate+Nitrite	Phosphorus	Oxygen	Chloride	Algae
4 years	0.113	0.179	7.44	45.3	3.8

Segment 1416B

Brady Creek Reservoir

	Nitrate+Nitrite	Phosphorus	Oxygen	Chloride	Algae
4 years	0.111	0.067	8.94	467.0	14.7

Summary

- 1409
 - Trends are improving
 - Solid biology
- 1410
 - Overall improving trends
 - Salts still an issue
- 1416
 - Neutral trends

Summary

- 1416A and B
 - Not enough data
 - DO is lower than other parts of this segment
 - Nutrient concentrations in the reservoir are higher than what is typical in central Texas, but not near any levels of concern
 - Salt concentrations are near levels of concern

Summary

- In general, these waters are in good condition

Questions

