

## Water Quality Parameters (WQP) Acceptable Analytical Methods

Parameter	Units	EPA	ASTM	SM	Other	Method Requirement
Temperature	degrees C			2550		Approval
pH	pH units	150.1 150.2	D1293-12, 95, 99	4500-H B		Approval
Alkalinity-CaCO <sub>3</sub>	mg/L		D1067-92, 02, 06, 11 B	2320 B	I-1030-85	Approval
Calcium (Ca)	mg/L	200.5 200.7	D511-93, 03, 09, 14A D511-93, 03, 09, 14B D6916-03, 09	3111 B 3120 B 3500-Ca B 3500-Ca D		Approval
Conductivity	umhos/cm		D1125 95 99, 14 A	2510 B		Approval
O-phosphate-P	mg/L	300.0 300.1 365.1	D4327-97,03, D515-88 A D6508	4110 B 4500-P E 4500-P F	I-1601-85 I-2598-85 I-2601-90	Approval
Silica	mg/L	200.5 200.7	D859-94, 00, 05, 10	3120 B 4500-SiO <sub>2</sub> C 4500-SiO <sub>2</sub> D 4500-SiO <sub>2</sub> E 4500-SiO <sub>2</sub> F	I-1700-85 I-2700-85	Approval
Chloride	mg/L	300.0 300.1	D4327-97, 03, 11 D512-89, 99, 04, 12 B	4110 B 4500-Cl B 4500-Cl D	D6508	Accreditation
Hardness - CaCO <sub>3</sub>	mg/L	130.1	D1126	2340 B* 2340 C	I-1586-85	Accreditation
Iron	mg/L	200.5 200.7 200.9		3111 B 3113 B 3120 B		Accreditation
Manganese	mg/L	200.5 200.7 200.8 200.9		3111 B 3113 B 3120 B		Accreditation
Sodium	mg/L	200.5 200.7	D6919-03, 09	3111B 3120 B		Accreditation
Sulfate-SO <sub>4</sub>	mg/L	300.0 300.1 375.2	D4327-97, 03, 11 D516-90, 02, 07, 11 02	4110 B 4500-SO <sub>4</sub> <sup>-</sup> C 4500-SO <sub>4</sub> <sup>-</sup> D 4500-SO <sub>4</sub> <sup>-</sup> E 4500-SO <sub>4</sub> <sup>-</sup> F	D6508	Accreditation
TDS (dried at 180 C)	mg/L			2540 C		Accreditation

**Approval** – Laboratories must use methods acceptable to EPA/TCEQ, complete a Laboratory Approval form and meet accuracy and calibration requirements. Demonstration of capability may also be required.

**Accreditation** – Laboratories must use methods acceptable to EPA/TCEQ and be NELAP accredited in the Drinking Water Matrix.

\* SM 2340 B for hardness is acceptable to TCEQ as long as the lab is approved for calcium and accredited for magnesium in the drinking water matrix.

Highlighted methods are currently offered for accreditation by TCEQ.