

## Analytical Capabilities for Stormwater, Effluents or other Wastewater Discharges (40 CFR §136)

### pH

pH Range	Photometer: 6.5 to 8.5 pH; pH electrode: -2.00 to 16.00 pH; pH probe: -2.00 to 19.99 pH
pH Resolution	Photometer: 0.1 pH; pH electrode: 0.01 pH; pH probe: 0.01 pH

### Oxygen, Dissolved

Oxygen, Dissolved Range	Photometer: 0.0 to 10.0 mg/L (as O <sub>2</sub> ); probe (saturation): 0 to 200%; probe (concentration): 0 to 400 mg/L
Oxygen, Dissolved Resolution	Photometer: 0.1 mg/L; probe (saturation): 0.1%; probe (concentration): 0.01 mg/L

### Absorbance

Absorbance Range	0.000 to 4.000 Abs
Absorbance Resolution	0.001 Abs

### Alkalinity

Alkalinity Range	Freshwater: 0 to 500 mg/L (as CaCO <sub>3</sub> ) Seawater: 0 to 300 mg/L (as CaCO <sub>3</sub> )
Alkalinity Resolution	1 mg/L

### Aluminum

Aluminum Range	0.00 to 1.00 mg/L (as Al <sup>3+</sup> )
Aluminum Resolution	0.01 mg/L

### Ammonia

Ammonia Range	Low Range: 0.00 to 3.00 mg/L Medium Range: 0.00 to 10.00 mg/L High Range: 0.0 to 100.0 mg/L
Ammonia Resolution	Low and Medium Range: 0.01 mg/L High Range: 0.1 mg/L

### Anionic Surfactants

Anionic Surfactants Range	0.00 to 3.50 mg/L
Anionic Surfactants Resolution	0.01 mg/L

### Boron

Boron Range	0.0 to 5.2 mg/L
Boron Resolution	0.2 mg/L

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### Bromine

Bromine Range	0.00 to 8.00 mg/L (as Br <sub>2</sub> )
Bromine Resolution	0.01 mg/L

### Calcium

Calcium Range	Freshwater: 0 to 400 mg/L (as Ca <sup>2+</sup> ) Seawater: 200 to 600 mg/L (as Ca <sup>2+</sup> )
Calcium Resolution	1 mg/L

### Chemical Oxygen Demand

Chemical Oxygen Demand Range	Low Range: 0 to 150 mg/L Medium Range: 0 to 1500 mg/L High Range: 0 to 15000 mg/L
Chemical Oxygen Demand Resolution	1 mg/L

### Chloride

Chloride Range	0.0 to 20.0 mg/L (as Cl <sup>-</sup> )
Chloride Resolution	0.1 mg/L

### Chlorine Dioxide

Chlorine Dioxide Range	0.00 to 2.00 mg/L (as ClO <sub>2</sub> )
Chlorine Dioxide Resolution	0.01 mg/L

### Chlorine

Free Chlorine Range	0.00 to 5.00 mg/L (as Cl <sub>2</sub> ); Ultra Low Range: 0.000 to 0.500 mg/L (as Cl <sub>2</sub> )
Free Chlorine Resolution	0.01 mg/L; Ultra Low Range: 0.001 mg/L
Total Chlorine Range	0.00 to 5.00 mg/L (as Cl <sub>2</sub> ); Ultra Low Range: 0.000 to 0.500 mg/L (as Cl <sub>2</sub> ); Ultra High Range: 0 to 500 mg/L (as Cl <sub>2</sub> )
Total Chlorine Resolution	0.01 mg/L; Ultra Low Range: 0.001 mg/L; Ultra High Range: 1 mg/L

### Chromium, Hexavalent

Chromium, Hexavalent Range	Low Range: 0 to 300 µg/L (as Cr <sup>6+</sup> ) High Range: 0 to 1000 µg/L (as Cr <sup>6+</sup> )
Chromium, Hexavalent Resolution	1 µg/L

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### Conductivity

Conductivity, Water Range	0.00 to 199.9 mS
Conductivity, Water Resolution	0.01 µS

### Color, Water

Color, Water Range	0 to 500 PCU (Platinum Cobalt Units)
Color, Water Resolution	1 PCU

### Copper

Copper Range	Low Range: 0.000 to 1.500 mg/L (as Cu <sup>2+</sup> ) High range: 0.00 to 5.00 mg/L (as Cu <sup>2+</sup> )
Copper Resolution	0.001 mg/L; 0.01 mg/L

### Cyanuric Acid

Cyanuric Acid Range	0 to 80 mg/L (as CYA)
Cyanuric Acid Resolution	1 mg/L

### Dissolved Solids, Total

Dissolved Solids, Total, Range	0 to 100 g/L
Dissolved Solids, Total, Resolution	0.01 mg/L

### Fluoride

Fluoride Range	Low Range: 0.00 to 2.00 mg/L (as F); High range: 0.0 to 20.0 mg/L (as F)
Fluoride Resolution	0.01 mg/L; 0.1 mg/L

### Hardness, Total

Hardness, Total Range	Low Range: 0 to 250 mg/L (as CaCO <sub>3</sub> ); Range: 200 to 500 mg/L (as CaCO <sub>3</sub> ); High Range: 400 to 750 mg/L (as CaCO <sub>3</sub> )
Hardness, Total Resolution	1 mg/L

### Hardness, Calcium

Hardness, Calcium Range	0.00 to 2.70 mg/L (as CaCO <sub>3</sub> )
Hardness, Calcium Resolution	0.01 mg/L

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### Hardness, Magnesium

Hardness, Magnesium Range	0.00 to 2.00 mg/L (as CaCO <sub>3</sub> )
Hardness, Magnesium Resolution	0.01 mg/L

### Hydrazine

Hydrazine Range	0 to 400 µg/L (as N <sub>2</sub> H <sub>4</sub> )
Hydrazine Resolution	1 µg/L

### Iodine

Iodine Range	0.0 to 12.5 mg/L (as I <sub>2</sub> )
Iodine Resolution	0.1 mg/L

### Iron

Iron Range	Low Range: 0.000 to 1.600 mg/L (as Fe) High Range: 0.00 to 5.00 mg/L (as Fe)
Iron Resolution	0.001 mg/L; 0.01 mg/L

### Magnesium

Magnesium Range	0 to 150 mg/L (as Mg <sup>2+</sup> )
Magnesium Resolution	1 mg/L

### Manganese

Manganese Range	Low Range: 0 to 300 µg/L (as Mn) High Range: 0.0 to 20.0 (as Mn)
Manganese Resolution	1 µg/L; 0.1 mg/L

### Molybdenum

Molybdenum Range	0.0 to 40.0 mg/L (as Mo <sup>6+</sup> )
Molybdenum Resolution	0.1 mg/L

### Nickel

Nickel Range	Low Range: 0.000 to 1.000 mg/L (as Ni) High Range: 0.00 to 7.00 g/L (as Ni)
Nickel Resolution	0.001 mg/L; 0.01 g/L

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### Nitrate

Nitrate Range	0.0 to 30.0 mg/L (as NO <sub>3</sub> <sup>-</sup> -N)
Nitrate Resolution	0.1 mg/L

### Nitrite

Nitrite Range	Freshwater Low Range: 0 to 600 µg/L (as NO <sub>2</sub> <sup>-</sup> -N); High Range: 0 to 150 mg/L (as NO <sub>2</sub> <sup>-</sup> ) Seawater Ultra Low Range: 0 to 200 µg/L (as NO <sub>2</sub> <sup>-</sup> -N)
Nitrite Resolution	Freshwater: 1 µg/L; 1 mg/L Seawater: 1 µg/L

### Nitrogen, Total

Nitrogen, Total Range	Low Range: 0.0 to 25.0 mg/L (as NO <sub>3</sub> <sup>-</sup> -N) High Range: 0 to 150 mg/L (as N)
Nitrogen, Total Resolution	0.1 mg/L; 1 mg/L

### Oxygen, Scavenger

Oxygen, Scavenger Range	0 to 1000 µg/L (as DEHA); 0.00 to 1.50 mg/L (as Carbohydrazide) 0.00 to 2.50 mg/L (as Hydroquinone) 0.00 to 4.50 mg/L (as ISO-ascorbic acid)
Oxygen, Scavenger Resolution	1 µg/L (DEHA); 0.01 mg/L

### Ozone

Ozone Range	0.00 to 2.00 mg/L (as O <sub>3</sub> )
Ozone Resolution	0.01 mg/L

### Phosphate

Phosphate Range	Freshwater Low Range: 0.00 to 2.50 mg/L (as PO <sub>4</sub> <sup>3-</sup> ) High range: 0.0 to 30.0 mg/L (as PO <sub>4</sub> <sup>3-</sup> ) Seawater Ultra Low Range: 0 to 200 µg/L (as P)
Phosphate Resolution	Freshwater: 0.01 mg/L; 0.1 mg/L Seawater: 1 µg/L

### Phosphorous, Acid Hydrolyzable

Phosphorous, Acid Hydrolyzable Range	0.00 to 1.60 mg/L (as P)
Phosphorous, Acid Hydrolyzable Resolution	0.01 mg/L

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### Phosphorous, Reactive

Phosphorous, Reactive Range	Low Range: 0.00 to 1.60 mg/L (as P) High Range: 0.0 to 32.6 mg/L (as P)
Phosphorous, Reactive Resolution	0.01 mg/L; 0.1 mg/L

### Phosphorous, Total

Phosphorous, Total Range	Low Range: 0.00 to 1.15 mg/L (as P) High Range: 0.0 to 32.6 mg/L (as P)
Phosphorous, Total Accuracy	Low Range: $\pm 0.05$ mg/L or $\pm 6\%$ of reading High Range: $\pm 0.5$ mg/L or $\pm 5\%$ of reading

### Potassium

Potassium Range	0.0 to 20.0 mg/L (as K)
Potassium Resolution	0.1 mg/L

### Resistivity

Resistivity Range	0.0 to 100.0 M cm
Resistivity Resolution	0.1 M cm

### Salinity

Salinity Range	0 to 100 ppt
Salinity Resolution	0.1 ppt

### Silica

Silica Range	Low Range: 0.00 to 2.00 mg/L (as SiO <sub>2</sub> ) High Range: 0 to 200 mg/L (as SiO <sub>2</sub> )
Silica Resolution	0.01 mg/L; 1 mg/L

### Silver

Silver Range	0.000 to 1.000 mg/L (as Ag)
Silver Resolution	0.001 mg/L

### Sulfate

Sulfate Range	0 to 150 mg/L (as SO <sub>4</sub> <sup>2-</sup> )
Sulfate Resolution	1 mg/L

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### Suspended Solids, Total

Suspended Solids, Total, Range	0.1 mg/L to 20,000 mg/L
Suspended Solids, Total, Resolution	0.1 mg/L

### Temperature

Temperature Range	32 to 212 °F (0 to 100 °C)
Temperature Resolution	0.1 °

### Zinc

Zinc Range	0.00 to 3.00 mg/L (as Zn)
Zinc Resolution	0.01 mg/L