

# UC LABORATORY

PO BOX 551 JANESVILLE, MN. 56048

(800)683-9199

Please find UC Laboratory's current certified methods on this chart. A copy of our certificate and scope are available upon request.

Unless arrangements have been made with the laboratory, it is our agreement with you that these methods are acceptable.

<i>ANALYTE</i>	<i>METHOD</i>	<i>CONTAINER</i> <sup>1</sup>	<i>PRESERVATION</i>	<i>HOLDING TIME</i> <sup>2</sup>
Alkalinity , as CaCO <sub>3</sub>	SM2320B-2011	P	Cool to ≤ 6 ° C	14 Days
Ammonia as N	EPA 350.1	P	Cool to ≤ 6 ° C, H <sub>2</sub> SO <sub>4</sub> <2 pH	28 Days
Bicarbonates (HCO <sub>3</sub> )	Calculation using Alkalinity & pH	P	Cool to ≤ 6 ° C	14 days
Biochemical Oxygen Demand, BOD <sub>5</sub>	SM 5210B-2011	P	Cool to ≤ 6 ° C	48 Hours
Biochemical Oxygen Carbonaceous, CBOD <sub>5</sub>	SM 5210B-2011	P	Cool to ≤ 6 ° C	48 Hours
Chemical Oxygen Demand	Hach 8000	P	Cool to ≤ 6 ° C, H <sub>2</sub> SO <sub>4</sub> <2 pH	28 Days
Chloride	SM 4500-Cl <sup>-</sup> E-2011	P	None Required	28 Days
Conductivity, (Specific Conductance)	EPA 120.1	P	Cool to ≤ 6 ° C	28 Days
Fluoride	SM4500F-C-97	P	None Required	28 Days
Hardness	SM 2340B-2011	P	HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> <2 pH	6 Months
Kjeldahl Nitrogen, Total (TKN)	EPA 351.2	P	Cool to ≤ 6 ° C, H <sub>2</sub> SO <sub>4</sub> <2 pH	28 Days
Metals, Dissolved	EPA 200.7, EPA 6010D <sup>6</sup>	P	Filter within 15 minutes HNO <sub>3</sub> to <2 pH or at least 24 hours prior to analysis	6 Months
Metals, Total (except Mercury)	EPA 200.7, EPA 6010D <sup>6</sup>	P	HNO <sub>3</sub> to <2 pH or at least 24 hours prior to analysis	6 Months
Nutrients	EPA 200.7, EPA 6010D <sup>6</sup>	P	HNO <sub>3</sub> to <2 pH or at least 24 hours prior to analysis	6 Months
Nitrate as N	SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 (calc.)	P	Cool to ≤ 6 ° C	48 Hours
Nitrate+nitrite	SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011	P	Cool to ≤ 6 ° C, H <sub>2</sub> SO <sub>4</sub> <2 pH	28 Days
Nitrite, as N	SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011	P	Cool to ≤ 6 ° C	48 Hours
Oil & Grease	Contract Lab	G	Cool to ≤ 6 ° C, HCl or H <sub>2</sub> SO <sub>4</sub> <2 pH	28 Days
Orthophosphate, as P	EPA 365.1	P	Cool to ≤ 6 ° C	Filter within 15 minutes; Analyze within 48 hr.

<b>ANALYTE</b>	<b>METHOD</b>	<b>CONTAINER<sup>1</sup></b>	<b>PRESERVATION</b>	<b>HOLDING TIME<sup>2</sup></b>
pH	SM 4500H+B-2011, EPA 9045D, SM 4500H+B-2000 <sup>6</sup>	P	None Required	Analyze within 15 minutes
Phosphorus, Total	EPA 365.1	P	Cool to ≤ 6 °C, H <sub>2</sub> SO <sub>4</sub> <2 pH	28 Days
Residue filterable (TDS)	SM 2540 C-2011	P	Cool to ≤ 6 °C	7 Days
Residue, nonfilterable (TSS)	USGS I-3765-85	P	Cool to ≤ 6 °C	7 Days
Residue, (TS %)	SM 2540 B-2011/SM 2540 G-2011 <sup>6</sup>	P	Cool to ≤ 6 °C	7 Days
Residue, (VS)	EPA 160.4, SM 2540G-2011 <sup>6</sup>	P	Cool to ≤ 6 °C	7 Days

<b>MICROBIOLOGY</b>	<b>METHOD</b>	<b>CONTAINER<sup>1</sup></b>	<b>PRESERVATION</b>	<b>HOLDING TIME<sup>2</sup></b>
Coliform, Fecal (CWP)	SM 9221 E + C-2006	Sterile 125 mL P	Cool to <10 °C .0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 Hours <sup>3</sup>
Coliform, Fecal (CWP)	SM 9222D (m-FC)-2006 <sup>4</sup>	Sterile 125 mL P	Cool to <10 °C .0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 Hours <sup>3</sup>
Coliform, Fecal (CWP)	Colilert®-18 (Fecal Coliform) <sup>5</sup>	Sterile 125 mL P	Cool to <10 °C .0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 Hours <sup>3</sup>
Escherichia coli (CWP)	SM 9223 B (Colilert®-18 Quanti-Tray®)-2004	Sterile 125 mL P	Cool to <10 °C .0008% Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>	8 Hours <sup>3</sup>
Coliform, Total (SDWP)	SM 9223 B (Colilert®)-2004 <sup>7</sup>	Sterile 125 mL P	Cool to <10 °C .0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<30 Hours
Escherichia coli (SDWP)	SM 9223 B (Colilert®)-2004 <sup>7</sup>	Sterile 125 mL P	Cool to <10 °C .0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<30 Hours
Coliform, Total (SDWP)	SM 9223 B (Colisure®)-2016 <sup>8</sup>	Sterile 125 mL P	Cool to <10 °C .0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<30 Hours
Escherichia coli (SDWP)	SM 9223 B (Colisure®)-2016 <sup>8</sup>	Sterile 125 mL P	Cool to <10 °C .0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<30 Hours

<sup>1</sup> "P" is polyethylene "FP" or fluoropolymer (polytetrafluoroethylene (PTFE: Teflon®), "G" is glass.

<sup>2</sup> The times listed are the maximum times that samples may be held before the start of analysis and still be considered valid. For a 24 hour composite, the holding time begins at the end of collection of the composite sample.

<sup>3</sup> If it is being sent in (SpecDee, USPS, etc), 24 hours is acceptable.

<sup>4</sup> All Influent, bypass/release, and septic samples will be analyzed with method SM 9222D(m-FC)-2006.

<sup>5</sup> Any non influent, bypass/release, and septic samples will be analyzed using Colilert®-18(Fecal Coliform) unless otherwise noted on chain of custody or arrangements made directly with the laboratory.

<sup>6</sup> CWP method/RCRA method/SDWP method

<sup>7</sup> All bacteria samples that are for a monthly or quarterly PWS compliance will be analyzed with method SM 9223 B (Colilert®)-2004.

<sup>8</sup> Any non PWS compliance bacteria samples will be analyzed with method SM 9223 B (Colisure®)-2016 unless otherwise noted on chain of custody or arrangements made directly with the laboratory.

**TRACE LEVEL MERCURY (< 100 ng/L) REQUIRES CLEAN HANDS DIRTY HANDS, EPA METHOD 1631 FOR COLLECTION. CONTACT YOUR CONTRACT LAB FOR FURTHER INSTRUCTIONS, SHIPPING CONTANER, REQUIRED CONTAINERS, PRESERVATION.**