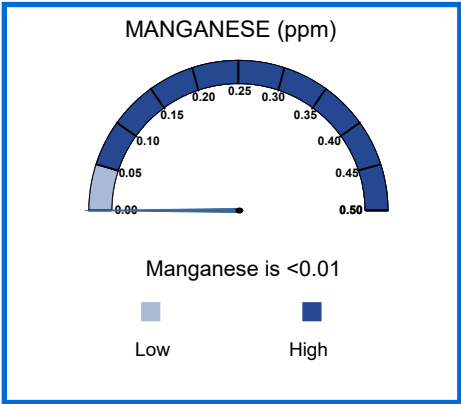
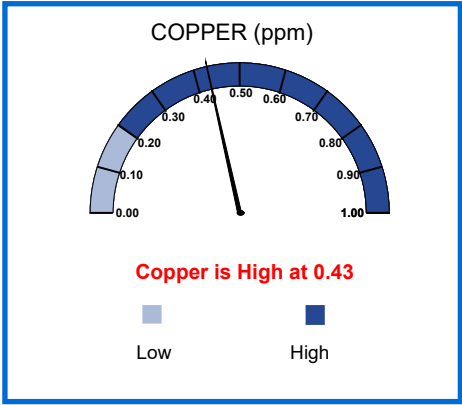
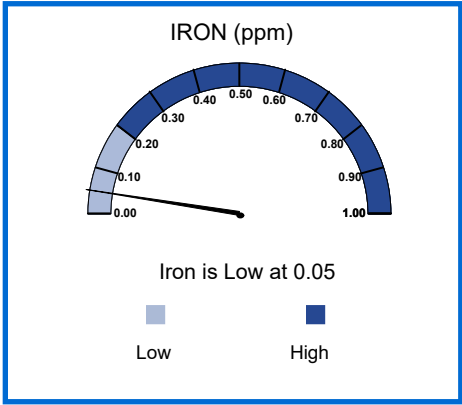
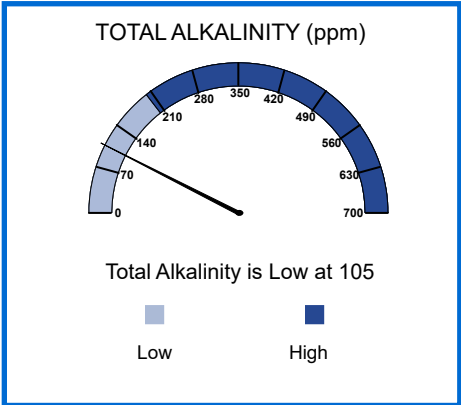
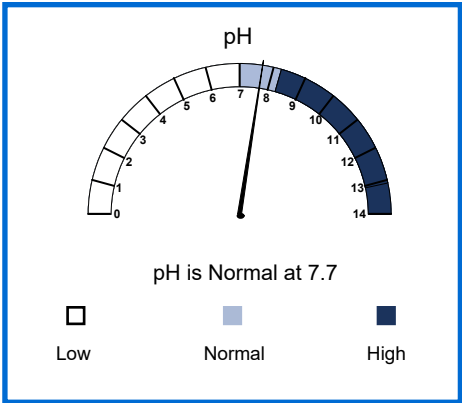
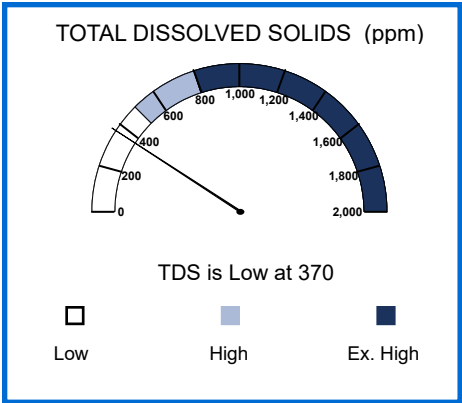
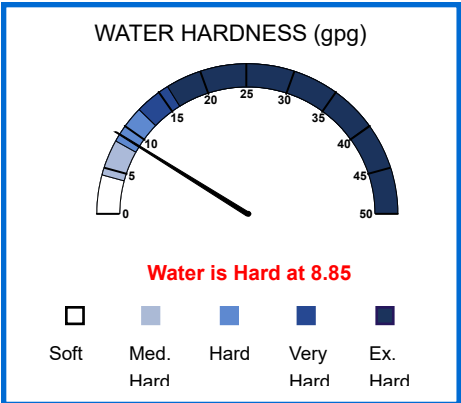


Final - Report Number: 4014629
Project Name: ESC_CTS_2024JUN25_007
Samples: 2
Date Reviewed: 3-Jul-2024

Laundry

Cold Water Sample



Analytical Report

Results apply to the sample as received:

Sampling point: Cold Water Sample

Source: Municipal

Temperature: Cold

Condition: Unsoftened

Cations - Metals	Test Method: AP 96008	Total
Aluminum (Al)		<1.00 mg/L
Barium (Ba)		0.22 mg/L
Calcium (Ca)		40.4 mg/L
Calcium (CaCO ₃)		101 mg/L
Copper (Cu)		0.43 mg/L
Iron (Fe)		0.05 mg/L
Magnesium (Mg)		12.3 mg/L
Magnesium (CaCO ₃)		50.6 mg/L
Manganese (Mn)		<0.01 mg/L
Molybdenum (Mo)		<0.02 mg/L
Phosphorus (P)		<0.50 mg/L
Potassium (K)		<5.00 mg/L
Silicon (Si)		29.2 mg/L
Silica (SiO ₂)		62.5 mg/L
Sodium (Na)		55.3 mg/L
Strontium (Sr)		0.34 mg/L
Sulfur (S)		5.71 mg/L
Zinc (Zn)		0.30 mg/L

Anions	Test Method	Total
Chloride (Cl)		103 mg/L

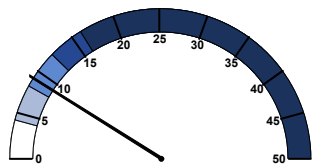
	Total
Conductivity at 25°C	580 µS/cm
Total Hardness by Calculation (CaCO ₃)	8.85 gpg (US)
Langelier Saturation Index	-0.37
Ryznar Stability Index	8.42
pH @ 25°C	7.7 pH
Silicon (SiO ₃)	79.1 mg/L
Dissolved Solids	370 mg/L

TITRATION	Test Method: AP 95018	Total
Total Alkalinity (CaCO ₃)		105 mg/L
Phenolphthalein Alkalinity (CaCO ₃)		<8.0 mg/L
Bicarbonate (CaCO ₃)		105 mg/L

Laundry

Hot Water Sample

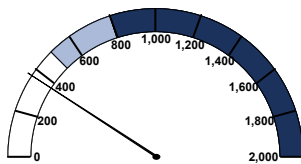
WATER HARDNESS (gpg)



Water is Hard at 8.99



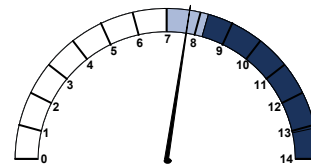
TOTAL DISSOLVED SOLIDS (ppm)



TDS is Low at 370



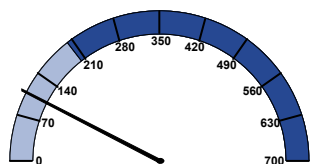
pH



pH is Normal at 7.7



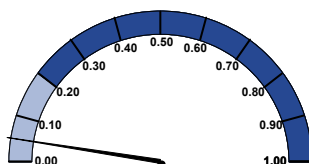
TOTAL ALKALINITY (ppm)



Total Alkalinity is Low at 106



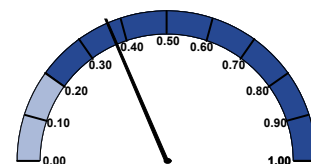
IRON (ppm)



Iron is Low at 0.05



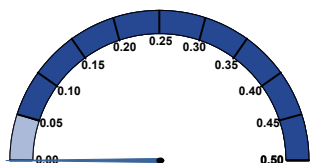
COPPER (ppm)



Copper is High at 0.37



MANGANESE (ppm)



Manganese is <0.01



Analytical Report

Results apply to the sample as received:

Sampling point: Hot Water Sample

Source: Municipal

Temperature: Hot

Condition: Unsoftened

Cations - Metals	Test Method: AP 96008	Total
Aluminum (Al)		<1.00 mg/L
Barium (Ba)		0.21 mg/L
Calcium (Ca)		40.8 mg/L
Calcium (CaCO ₃)		102 mg/L
Copper (Cu)		0.37 mg/L
Iron (Fe)		0.05 mg/L
Magnesium (Mg)		12.6 mg/L
Magnesium (CaCO ₃)		52.0 mg/L
Manganese (Mn)		<0.01 mg/L
Molybdenum (Mo)		<0.02 mg/L
Phosphorus (P)		<0.50 mg/L
Potassium (K)		<5.00 mg/L
Silicon (Si)		28.9 mg/L
Silica (SiO ₂)		61.7 mg/L
Sodium (Na)		55.7 mg/L
Strontium (Sr)		0.34 mg/L
Sulfur (S)		5.86 mg/L
Zinc (Zn)		0.34 mg/L

Anions	Test Method	Total
Chloride (Cl)		104 mg/L

	Total
Conductivity at 25°C	580 µS/cm
Total Hardness by Calculation (CaCO ₃)	8.99 gpg (US)
Langelier Saturation Index	0.21
Ryznar Stability Index	7.28
pH @ 25°C	7.7 pH
Silicon (SiO ₃)	78.2 mg/L
Dissolved Solids	370 mg/L

TITRATION	Test Method: AP 95018	Total
Total Alkalinity (CaCO ₃)		106 mg/L
Phenolphthalein Alkalinity (CaCO ₃)		<8.0 mg/L
Bicarbonate (CaCO ₃)		106 mg/L