



Cotey Chemical Water Analysis Report

To

Laboratory #: 777

Company:

Sample Received: 2/6/2015

Sample ID

Results Reported: 2/13/2015

Subject: To perform chemical and bacterial analysis of water sample.

	mg/L		mg/L
pH	7.1	Chloride	637
Conductivity (µS/cm)	4840	Copper	0.04
ORP (mV)	241.6	Ferrous Iron (Fe 2+)	0.02
TDS	2530	Ferric Iron (Fe 3+)	0.01
Salinity (ppt)	2.53	Total Iron	0.03
Phenolphthalein Alkalinity	0	Manganese	0.7
Total Alkalinity	424	Potassium	9.8
Hydroxide Alkalinity	0	Total Chlorine	0.02
Carbonate Alkalinity	0	Free Chlorine	0.02
Bicarbonate Alkalinity	424	Phosphates	0.13
Total Hardness	2248	Silica	9.2
Carbonate (temporary) Hardness	424	Nitrate	0.9
Non Carbonate (permanent) Hardness	1824	Sulfates	2000
Calcium Hardness as CaCO ₃	1344	Tannin/Lignin	2.6
Magnesium Hardness as CaCO ₃	904	Total Organic Carbon	19.9
Langelier Saturation Index	0.83		

Red indicates area of interest/concern. Green indicates below normal value.

Bacterial Analysis

Iron Related Bacteria (IRB)

Reaction: Positive
Total Incubation (Days): 9
Time lag to reaction: 4
Observations: Green background, brown slime

Population Estimate (cfu/mL): 9,000
Aggressivity: High

Sulfate-Reducing Bacteria (SRB)

Reaction: Positive
Total Incubation (Days): 9
Time lag to reaction: 2
Observations: Black specks on ball, Black ring on bottom.

Population Estimate (cfu/mL): 700,000
Aggressivity: High

Slime-Forming Bacteria (SLYM)

Reaction: Positive
Total Incubation (Days): 9
Time lag to reaction: 5
Observations: Slime ring formed on top, UV light revealed glowing

Population Estimate (cfu/mL): 2,500
Aggressivity: Moderate

Heterotrophic Plate Count (HPC)

75 CFU/mL, pour plate method, 35 °C/48hours, plate count agar.

: However many bacteria can not be grown successfully in a petri dish.

Remarks: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Cody Wisniewski

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