

**WATER ANALYSIS REPORT**

COMPANY J.A. Allison ADDRESS \_\_\_\_\_ DATE: 9-11-84

SOURCE Turner 3 DATE SAMPLED 8-16-84 ANALYSIS NO. 16020

Analysis

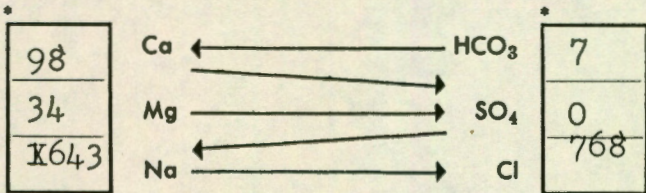
Mg/L

\*Meq/L

1. pH	<u>7.4</u>			
2. H <sub>2</sub> S (Qualitative)	<u>pos.</u>			
3. Specific Gravity	<u>1.010</u>			
4. Dissolved Solids		<u>44804</u>		
5. Suspended Solids		_____		
6. Phenolphthalein Alkalinity (CaCO <sub>3</sub> )		_____		
7. Methyl Orange Alkalinity (CaCO <sub>3</sub> )		<u>330</u>		
8. Bicarbonate (HCO <sub>3</sub> )		<u>403</u> ÷ 61	<u>7</u>	HCO <sub>3</sub>
9. Chlorides (Cl)		<u>27270</u> ÷ 35.5	<u>768</u>	Cl
10. Sulfates (SO <sub>4</sub> )		<u>trace</u> ÷ 48	<u>trace</u>	SO <sub>4</sub>
11. Calcium (Ca)		<u>1960</u> ÷ 20	<u>98</u>	Ca
12. Magnesium (Mg)		<u>413</u> ÷ 12.2	<u>34</u>	Mg
13. Total Hardness (CaCO <sub>3</sub> )		<u>6600</u>		
14. Total Iron (Fe)		<u>4</u>		
15. Barium (Qualitative)				
16. Strontium				

\*Milli equivalents per liter

**PROBABLE MINERAL COMPOSITION**



Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.04		<u>7</u>		<u>535</u>
Ca SO <sub>4</sub>	68.07				
Ca Cl <sub>2</sub>	55.50		<u>91</u>		<u>5073</u>
Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.17				
Mg SO <sub>4</sub>	60.19				
Mg Cl <sub>2</sub>	47.62		<u>34</u>		<u>1612</u>
Na HCO <sub>3</sub>	84.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03				
Na Cl	58.46		<u>643</u>		<u>37584</u>

Saturation Values Distilled Water 20°C

Ca CO <sub>3</sub>	13 Mg/L
Ca SO <sub>4</sub> • 2H <sub>2</sub> O	2,090 Mg/L
Mg CO <sub>3</sub>	103 Mg/L

REMARKS King

Respectfully submitted  
TRETOLITE

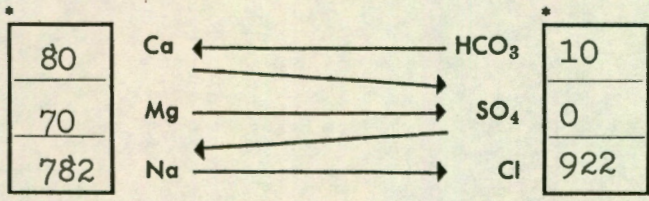
Ernsting

**WATER ANALYSIS REPORT**

COMPANY J.A. Allison ADDRESS \_\_\_\_\_ DATE: 9-11-84  
 SOURCE Turner 5 DATE SAMPLED 8-16-84 ANALYSIS NO. 16021  
 Analysis Mg/L \*Meq/L

1. pH 7.1
  2. H<sub>2</sub>S (Qualitative) pos.
  3. Specific Gravity 1.010
  4. Dissolved Solids 53736
  5. Suspended Solids \_\_\_\_\_
  6. Phenolphthalein Alkalinity (CaCO<sub>3</sub>) \_\_\_\_\_
  7. Methyl Orange Alkalinity (CaCO<sub>3</sub>) 500
  8. Bicarbonate (HCO<sub>3</sub>) HCO<sub>3</sub> 610 ÷ 61 10 HCO<sub>3</sub>
  9. Chlorides (Cl) Cl 32724 ÷ 35.5 922 Cl
  10. Sulfates (SO<sub>4</sub>) SO<sub>4</sub> trace ÷ 48 trace SO<sub>4</sub>
  11. Calcium (Ca) Ca 1600 ÷ 20 80 Ca
  12. Magnesium (Mg) Mg 851 ÷ 12.2 70 Mg
  13. Total Hardness (CaCO<sub>3</sub>) 7500
  14. Total Iron (Fe) 18
  15. Barium (Qualitative) \_\_\_\_\_
  16. Strontium \_\_\_\_\_
- \*Milli equivalents per liter

**PROBABLE MINERAL COMPOSITION**



Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.04		<u>10</u>		<u>810</u>
Ca SO <sub>4</sub>	68.07				
Ca Cl <sub>2</sub>	55.50		<u>70</u>		<u>3885</u>
Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.17				
Mg SO <sub>4</sub>	60.19				
Mg Cl <sub>2</sub>	47.62		<u>70</u>		<u>3320</u>
Na HCO <sub>3</sub>	84.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03				
Na Cl	58.46		<u>782</u>		<u>45721</u>

Saturation Values Distilled Water 20°C

Ca CO <sub>3</sub>	13 Mg/L
Ca SO <sub>4</sub> • 2H <sub>2</sub> O	2,090 Mg/L
Mg CO <sub>3</sub>	103 Mg/L

REMARKS King

Respectfully submitted  
TRETOLITE

Ernsting

SEP 26 1984