

VISCO WATER ANALYSIS WORK SHEET

COMPANY Tinka Resources LOCATION Logan County, Colorado
 TIME 5-12-18 LEASE Kirklinch #1 WATER SOURCE Water Tank

TOTAL DISSOLVED SOLIDS:

CATIONS	Column 1 mg/l as compound	Column 2 mg/l as ions	Column 3 mg/l	
A. Sodium		7205.3792 as Na+ = 23.0X	313.27736	A
B. Total hardness, as CaCO ₃ =	900			
C. Calcium, as CaCO ₃ =	700 X 0.400 =	280 as Ca++ X 0.050 =	14	C
D. Magnesium, as CaCO ₃ =	200 X 0.243 =	48.6 as Mg++ X 0.0823 =	3.99978	D
E. Barium, as BaSO ₄ =	0 X 0.589 =	0 as Ba++ X 0.0148 =	0	E
		Subtotal	17.99978	
F. Total Cations =		7533.9792	331.27714	F
ANIONS				
G. Chloride, as NaCl =	18000 X 0.607 =	10926 as Cl- X 0.0282 =	308.1132	G
H. Sulfate, as Na ₂ SO ₄ =	4 X 0.676 =	2.704 as SO ₄ X 0.0206 =	0.0562432	H
I. Carbonate, as CaCO ₃ =	55 X 0.600 =	33 as CO ₃ X 0.0333 =	1.0989	I
J. Bicarbonate, as CaCO ₃ =	1100 X 1.220 =	1342 as HCO ₃ X 0.0184 =	22.0088	J
K. Total Anions =			331.27714	K
L. Total Dissolved Solids	22	K = 12303.709		L
M. Total Iron, as Fe		L = 19837.683		
N. Acidity to Phen., as CaCO ₃	280 X 0.440 =	123.2 as CO ₂		

OTHER PROPERTIES:

1. Sulfide, as H ₂ S	0	S. Turbidity	n/a
2. Oxygen, as O ₂	n/a	T. Temperature, °F	60°F
3. pH	7.2	V. Spec. Grav.	1.01

COMMENTS:

DISTRICT/AREA:

ANALYST: Steve Masters / Natco

DIRECTIONS:

Step 1: Complete tests in Column 1, and "Other Properties".

Step 2: Complete the multiplication steps for Columns 2 and 3, except Line A.

Step 3: In Column 3, add C, D, E to get subtotal. In Column 2, add G, H, I and J and enter total in 3K.

Step 4: Subtract subtotal from 3K and enter difference in 3A. In Column 3, add 3A to subtotal and enter in 3F.

Step 5: Multiply 3A by 23.0 and enter in 3A.

Step 6: Add column 2 Cations to get Total in 2F. Add Anions to get Total in 2K. Add 2F and 2K to get 2L.