



CATION / ANION ANALYSIS

Pierce A 2 API# 3004521095

Client: ConocoPhillips
Sample ID: Pierce Fee A2
Laboratory Number: 59280
Chain of Custody: 12358
Sample Matrix: Aqueous
Preservative:
Condition: Intact

Project #: 96052-1706
Date Reported: 08/18/11
Date Sampled: 08/16/11
Date Received: 08/16/11
Date Analyzed: 08/16/11

Parameter	Analytical Result	Units		
pH	12.7	s.u.		
Conductivity @ 25° C	45,000	umhos/cm		
Total Dissolved Solids @ 180C	19,500	mg/L	RCVD DEC 1 '11	
Total Dissolved Solids (Calc)	45,200	mg/L		
SAR	4,820	ratio	OIL CONS. DIV.	
Total Alkalinity as CaCO3	22,800	mg/L		
Total Hardness as CaCO3	5.74	mg/L	DIST. 3	
Bicarbonate as CaCO3	< 0.0	mg/L	0.000	meq/L
Carbonate as CaCO3	11,300	mg/L	377	meq/L
Hydroxide as CaCO3	11,500	mg/L	676	meq/L
Nitrate Nitrogen	7.00	mg/L	0.113	meq/L
Nitrite Nitrogen	0.007	mg/L	0.000	meq/L
Chloride	80.0	mg/L	2.26	meq/L
Fluoride	7.50	mg/L	0.395	meq/L
Phosphate	2.30	mg/L	0.073	meq/L
Sulfate	4,750	mg/L	98.9	meq/L
Iron	< 0.01	mg/L	0.000	meq/L
Calcium	2.28	mg/L	0.114	meq/L
Magnesium	< 0.01	mg/L	0.001	meq/L
Potassium	28.0	mg/L	0.716	meq/L
Sodium	26,500	mg/L	1,153	meq/L
Cations			1,154	meq/L
Anions			1,155	meq/L
Cation/Anion Difference			0.09%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

NOTE: Low TDS due to Decomposing CO₃²⁻

Comments Braden Head Water Samples

Analyst

Review