



envirotech

Analytical Laboratory

CATION / ANION ANALYSIS

API #

Reid B 2E

3004524433

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Braden Head	Date Reported:	08/13/11
Laboratory Number:	59199	Date Sampled:	08/09/11
Chain of Custody:	12312	Date Received:	08/09/11
Sample Matrix:	Aqueous	Date Analyzed:	08/10/11
Preservative:	Cool		
Condition:	Intact		

Parameter	Analytical Result	Units	
pH	12.5	s.u.	
Conductivity @ 25° C	14,300	umhos/cm	
Total Dissolved Solids @ 180C	5,470	mg/L	RCVD DEC 1 '11
Total Dissolved Solids (Calc)	14,800	mg/L	OIL CONS. DIV.
SAR	1,330	ratio	DIST. 3
Total Alkalinity as CaCO3	6,130	mg/L	
Total Hardness as CaCO3	6.97	mg/L	
Bicarbonate as CaCO3	< 0.01	mg/L	0.000 meq/L
Carbonate as CaCO3	2,860	mg/L	95.3 meq/L
Hydroxide as CaCO3	3,270	mg/L	192 meq/L
Nitrate Nitrogen	20.9	mg/L	0.337 meq/L
Nitrite Nitrogen	0.006	mg/L	0.000 meq/L
Chloride	179	mg/L	5.05 meq/L
Fluoride	53.0	mg/L	2.79 meq/L
Phosphate	9.10	mg/L	0.287 meq/L
Sulfate	2,720	mg/L	56.6 meq/L
Iron	0.400	mg/L	0.014 meq/L
Calcium	2.69	mg/L	0.134 meq/L
Magnesium	0.061	mg/L	0.005 meq/L
Potassium	17.6	mg/L	0.450 meq/L
Sodium	8,090	mg/L	352 meq/L
Cations			353 meq/L
Anions			353 meq/L
Cation/Anion Difference			0.00%

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: **Reed B #2E**

Analyst

Review

CHAIN OF CUSTODY RECORD

12312

Client: COPC		Project Name / Location: Reed B #2E				ANALYSIS / PARAMETERS													
Client Address:		Sampler Name: David Bixler				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:		Client No.: 96052-1706																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl													
Braden Head	8/9	10:00	59199	Soil Sludge Solid <u>Aqueous</u>														✓	
				Soil Sludge Solid Aqueous															
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					8-9-11	12:00						8/9/11	12:00						
Relinquished by: (Signature)							Received by: (Signature)												
Relinquished by: (Signature)							Received by: (Signature)												

Jessica Simpson



envirotech
Analytical Laboratory

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com

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