

**CATION / ANION ANALYSIS**

Rock Island 1

API # 3004511876

Client: ConocoPhillips
Sample ID: Braden Head Water
Laboratory Number: 59268
Chain of Custody: 12362
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	9.53	s.u.		
Conductivity @ 25° C	14,800	umhos/cm	RCVD DEC 1 '11	
Total Dissolved Solids @ 180C	14,200	mg/L	OIL CONS. DIV.	
Total Dissolved Solids (Calc)	15,100	mg/L	DIST. 3	
SAR	68.2	ratio		
Total Alkalinity as CaCO3	160	mg/L		
Total Hardness as CaCO3	833	mg/L		
Bicarbonate as CaCO3	160	mg/L	2.62	meq/L
Carbonate as CaCO3	< 0.01	mg/L	0.000	meq/L
Hydroxide as CaCO3	< 0.01	mg/L	0.001	meq/L
Nitrate Nitrogen	< 0.01	mg/L	0.000	meq/L
Nitrite Nitrogen	0.001	mg/L	0.000	meq/L
Chloride	35.0	mg/L	0.987	meq/L
Fluoride	8.90	mg/L	0.468	meq/L
Phosphate	1.40	mg/L	0.044	meq/L
Sulfate	10,100	mg/L	210	meq/L
Iron	< 0.01	mg/L	0.000	meq/L
Calcium	288	mg/L	14.4	meq/L
Magnesium	27.6	mg/L	2.27	meq/L
Potassium	38.5	mg/L	0.985	meq/L
Sodium	4,520	mg/L	197	meq/L
Cations			214	meq/L
Anions			214	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.

Comments Rock Island #1

Analyst
Review

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Intermediate Water	Date Reported:	08/18/11
Laboratory Number:	59269	Date Sampled:	08/15/11
Chain of Custody:	12362	Date Received:	08/15/11
Sample Matrix:	Aqueous	Date Analyzed:	08/16/11
Preservative:			
Condition:	Intact		

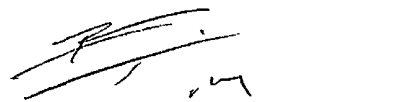
Parameter	Analytical Result	Units		
pH	10.2	s.u.		
Conductivity @ 25° C	15,300	umhos/cm		
Total Dissolved Solids @ 180C	14,200	mg/L		
Total Dissolved Solids (Calc)	13,400	mg/L		
SAR	626	ratio		
Total Alkalinity as CaCO3	540	mg/L		
Total Hardness as CaCO3	9.8	mg/L		
Bicarbonate as CaCO3	< 0.01	mg/L	0.00	meq/L
Carbonate as CaCO3	500	mg/L	16.7	meq/L
Hydroxide as CaCO3	40.0	mg/L	2.35	meq/L
Nitrate Nitrogen	< 0.01	mg/L	0.000	meq/L
Nitrite Nitrogen	0.007	mg/L	0.000	meq/L
Chloride	40.0	mg/L	1.13	meq/L
Fluoride	6.90	mg/L	0.363	meq/L
Phosphate	1.50	mg/L	0.047	meq/L
Sulfate	8,490	mg/L	177	meq/L
Iron	< 0.01	mg/L	0.000	meq/L
Calcium	3.26	mg/L	0.163	meq/L
Magnesium	0.414	mg/L	0.034	meq/L
Potassium	37.7	mg/L	0.964	meq/L
Sodium	4,510	mg/L	196	meq/L
Cations			197	meq/L
Anions			197	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.

Comments **Rock Island #1**


 Analyst


 Review

CHAIN OF CUSTODY RECORD

12362

Client: <i>Conoco Phillips</i>		Project Name / Location: <i>Rock Island #1</i>		ANALYSIS / PARAMETERS													
Client Address:		Sampler Name: <i>Justin Amyx</i>		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.: <i>505 320 8241</i>		Client No.: <i>96052-1706</i>															
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂	HCl										
Resample 2 to Braden head water	8/15	3:30p	59268	Soil Sludge Solid <u>Aqueous</u>													
Intermediate water	8/15	3:50p	59269	Soil Sludge Solid <u>Aqueous</u>													
Braden head water	8/16	6:50am	59268	Soil Sludge Solid <u>Aqueous</u>													
				Soil Sludge Solid Aqueous													
				Soil Sludge Solid Aqueous													
				Soil Sludge Solid Aqueous													
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				Soil Sludge Solid Aqueous													
Relinquished by: (Signature) <i>Justin Amyx</i>				Date <i>8/15</i>	Time <i>4:03p</i>	Received by: (Signature) <i>[Signature]</i>				Date <i>8/15/11</i>	Time <i>4:03p</i>						
Relinquished by: (Signature) <i>Justin Amyx</i>				Date <i>8/16</i>	Time <i>7:32a</i>	Received by: (Signature) <i>[Signature]</i>				Date <i>8/16/11</i>	Time <i>7:32a</i>						
Relinquished by: (Signature)						Received by: (Signature)											

may not be enough sample

AMD 2361103 (Area 22)
BENALE



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