

**CATION / ANION ANALYSIS***Grambling 2A* API # 30-045-22750

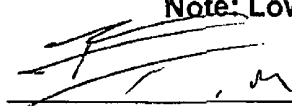
Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Braden Head	Date Reported:	09/01/11
Laboratory Number:	59378	Date Sampled:	08/25/11
Chain of Custody:	12427	Date Received:	08/25/11
Sample Matrix:	Aqueous	Date Analyzed:	08/26/11
Preservative:			
Condition:	Intact		

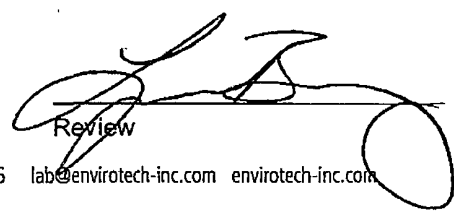
Parameter	Analytical Result	Units	
pH	12.5	s.u.	
Conductivity @ 25° C	10,500	umhos/cm	RCVD DEC 1 '11
Total Dissolved Solids @ 180C	4,800	mg/L	OIL CONS. DIV.
Total Dissolved Solids (Calc)	10,200	mg/L	
SAR	203	ratio	DIST. 3
Total Alkalinity as CaCO3	3,660	mg/L	
Total Hardness as CaCO3	125	mg/L	
Bicarbonate as CaCO3	< 0.01	mg/L	0.0 meq/L
Carbonate as CaCO3	1,760	mg/L	58.661 meq/L
Hydroxide as CaCO3	1,900	mg/L	111.720 meq/L
Nitrate Nitrogen	< 0.01	mg/L	0.000 meq/L
Nitrite Nitrogen	0.018	mg/L	0.000 meq/L
Chloride	373	mg/L	11 meq/L
Fluoride	10.8	mg/L	0.569 meq/L
Phosphate	3.90	mg/L	0.123 meq/L
Sulfate	2,300	mg/L	47.89 meq/L
Iron	0.099	mg/L	0.004 meq/L
Calcium	49.8	mg/L	2 meq/L
Magnesium	0.067	mg/L	0 meq/L
Potassium	28.8	mg/L	0.7 meq/L
Sodium	5,200	mg/L	226 meq/L
Cations			229 meq/L
Anions			229 meq/L
Cation/Anion Difference			0.02%

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 **Grambling #2A**

Note: Low TDS due to decomposing CO₃²⁻


Analyst


Review

CHAIN OF CUSTODY RECORD

12427

Client: COPC			Project Name / Location: Grambling #2A per Jessica Huey			ANALYSIS / PARAMETERS																																																
Client Address:			Sampler Name: John Jones			<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>RCRA 8 Metals</th> <th>Cation / Anion</th> <th>RCI</th> <th>TCLP with H/P</th> <th>PAH</th> <th>TPH (418.1)</th> <th>CHLORIDE</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Sample Cool</th> <th>Sample Intact</th> </tr> <tr> <td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>Y</td> </tr> </table>															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					X											1	Y
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Client Phone No.:			Client No.: 96052-1706																																																			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative																																																
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Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time																																													
<i>John Jones</i>			8/25/11	2:35	<i>Randi Vague</i>			8/25/11	2:35																																													
Relinquished by: (Signature)					Received by: (Signature)																																																	
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Jessica R. Huey

Results to: 50

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