

JUN 17 2016

Analytical Report**Report Summary**

Client: ConocoPhillips

Chain Of Custody Number: 17657

Samples Received: 1/7/2015 3:06:00PM

Job Number: 96052-1706

Work Order: P501016

Project Name/Location: Koch State Com #1A

Entire Report Reviewed By:



Date: 1/15/15

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 1/15/15 9:08 am

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Koch State Com #1A
Project Number: 96052-1706
Project Manager: Kevin Fredrickson

Reported:
15-Jan-15 09:21

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Braden Head	P501016-01A	Aqueous	01/07/15	01/07/15	Poly 250mL

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Braden Head
P501016-01 (Water)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Cation/Anion Analysis									
pH @25°C	9.38		pH Units	1	1502025	01/08/15 09:47	01/08/15 09:47	150.1/4500H	
Electrical Conductivity	15900		umhos/cm	1	1502025	01/08/15 09:47	01/08/15 09:47	EPA 120.1	
Total Dissolved Solids	15000		mg/L	1	1502027	01/08/15	01/08/15	160.1/2540C	
Sodium Absorption Ratio	44.1		N/A	1	1503014	01/15/15	01/15/15	[CALC]	
Total Alkalinity as CaCO3	400	10.0	mg/L	1	1502035	01/09/15	01/09/15	Hach Method 8203	
Total Hardness as CaCO3	639	0.07	mg/L		[CALC]	01/12/15	01/13/15	[CALC]	
Bicarbonate as CaCO3	400	10.0	mg/L	1	1502035	01/09/15	01/09/15	Hach Method 8203	
Carbonate as CaCO3	ND	10.0	mg/L	1	1502035	01/09/15	01/09/15	Hach Method 8203	
Hydroxide as CaCO3	ND	10.0	mg/L	1	1502035	01/09/15	01/09/15	Hach Method 8203	
Nitrate-N	ND	10.0	mg/L	100	1502026	01/08/15 10:19	01/08/15 13:10	EPA 300.0	
Nitrite-N	ND	10.0	mg/L	100	1502026	01/08/15 10:19	01/08/15 13:10	EPA 300.0	
Chloride	ND	100	mg/L	100	1502026	01/08/15	01/08/15	EPA 300.0	
Fluoride	ND	10.0	mg/L	100	1502026	01/08/15	01/08/15	EPA 300.0	
o-Phosphate	ND	50.0	mg/L	100	1502026	01/08/15 10:19	01/08/15 13:10	EPA 300.0	
Sulfate	8050	100	mg/L	100	1502026	01/08/15	01/08/15	EPA 300.0	
Iron	0.03	0.01	mg/L	1	1503002	01/12/15	01/13/15	EPA 6010C	
Calcium	202	0.01	mg/L	1	1503002	01/12/15	01/13/15	EPA 6010C	
Magnesium	32.6	0.01	mg/L	1	1503002	01/12/15	01/13/15	EPA 6010C	
Potassium	12.4	0.01	mg/L	1	1503002	01/12/15	01/13/15	EPA 6010C	
Sodium	2560	0.01	mg/L	1	1503002	01/12/15	01/13/15	EPA 6010C	

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Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1502026 - Anion Extraction EPA 300.0										
Blank (1502026-BLK1)				Prepared & Analyzed: 08-Jan-15						
Nitrate-N	ND	0.10	mg/L							
Nitrite-N	ND	0.10	"							
Chloride	ND	1.00	"							
Fluoride	ND	0.10	"							
o-Phosphate	ND	0.50	"							
Sulfate	ND	1.00	"							
LCS (1502026-BS1)				Prepared & Analyzed: 08-Jan-15						
Nitrate-N	4.55	0.10	mg/L	5.00		91.0	90-110			
Nitrite-N	4.64	0.10	"	5.00		92.8	90-110			
Chloride	48.1	1.00	"	50.0		96.2	90-110			
Fluoride	4.82	0.10	"	5.00		96.4	90-110			
o-Phosphate	18.6	0.50	"	25.0		74.3	90-110			SPK1
Sulfate	46.3	1.00	"	50.0		92.5	90-110			
Matrix Spike (1502026-MS1)				Source: P501016-01 Prepared & Analyzed: 08-Jan-15						
Nitrate-N	417	10.0	mg/L	500	ND	83.5	80-120			
Nitrite-N	424	10.0	"	500	ND	84.7	80-120			
Chloride	4450	100	"	5000	ND	89.0	80-120			
Fluoride	443	10.0	"	500	ND	88.5	80-120			
o-Phosphate	ND	50.0	"	2500	ND		80-120			SPK1
Sulfate	11000	100	"	5000	8050	58.3	80-120			SPK1
Matrix Spike Dup (1502026-MSD1)				Source: P501016-01 Prepared & Analyzed: 08-Jan-15						
Nitrate-N	419	10.0	mg/L	500	ND	83.7	80-120	0.287	20	
Nitrite-N	423	10.0	"	500	ND	84.5	80-120	0.260	20	
Chloride	4460	100	"	5000	ND	89.2	80-120	0.236	20	
Fluoride	444	10.0	"	500	ND	88.8	80-120	0.271	20	
o-Phosphate	ND	50.0	"	2500	ND		80-120		20	SPK1
Sulfate	11000	100	"	5000	8050	59.3	80-120	0.441	20	SPK1

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Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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