

ANALYTICAL TABLE

TABLE 1
UPRC 15-3K and 15-6K
Groundwater Laboratory Analytical Data
Kerr-McGee Oil and Gas Onshore, LP

Sample Location	Sample Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Total Xylenes ug/L
<i>COGCC Table 910-1 Groundwater Standard (ug/L) ⁽¹⁾</i>		5	560	700	1,400
GW01	25-Aug-14	66.5	69.5	7.6	639

Notes:

Groundwater standards referenced from 2 CCR 404-1, Table 910-1, effective February 1, 2014

COGCC = Colorado Oil and Gas Conservation Commission

ug/L = Micrograms per liter

< = Analytical result is less than the indicated laboratory reporting limit

 = Analytical result is in exceedance of COGCC Table 910-1 groundwater standards

LABORATORY ANALYTICAL REPORT

Test Report



August 26, 2014

Client: Tasman Geosciences / Anadarko

Project: UPRC 15-3K & 6K

Lab ID: 2026

Date Samples Received: 8/25/2014

Number of Samples: 5

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Dieken".

Christopher Dieken
Quality Assurance Manager

A handwritten signature in black ink, appearing to read "Todd Rhea".

Todd Rhea
Laboratory Manager

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

Chain of Custody

eANALYTICS

LABORATORY

Chain of Custody Form

LABORATORY				Chain of Custody Form							
1767 Rocky Mountain Avenue Loveland CO 80538				Phone: (970) 667-6975		Fax: (970) 669-0941					
www.eAnalyticsLab.com											
CLIENT INFORMATION (*New Clients please fill out completely)				ANALYSIS INFORMATION (Select analysis by checking box on corresponding sample line)							
Company: Tasman Geosciences / Anadarko				Other Analysis							
Project: <u>UPRC 15-3K4K</u>											
Project Manager: Paul Schneider / Phil Hamlin											
Sampler: Christine Wasko											
Phone/Email: 720-409-8791 / cwasko@tasman-geo.com											
Address: 6899 Pecos Street, Unit C Denver, CO 80221											
Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTX (EPA 8260)	BTX/GRO (EPA 8260)	DRO/ORO (EPA 8015)	TPH-GRO/DRO/ORO (EPA 8260/8015)	SAR (US Dept of Ag Method 200)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)
1	GWOI	8/25/14	3	N	X						
2	EOI@1		1	S		X	X				
3	NOI@1		1	S		X	X				
4	SOI@1		1	S		X	X				
5	WOI@1		1	S		X	X				
Comments: <u>By 7am 8/26/14 Please</u>											
Turnaround Time (Business Days) TAT begins when sample is received by eANALYTICS <input checked="" type="checkbox"/> Normal (5-10 Days) <input type="checkbox"/> 1 Day (1.25x) <input type="checkbox"/> 1 Day (2x) <input type="checkbox"/> Same Day (3x) <input checked="" type="checkbox"/> Next Bus. Morning (APC Pricing)				Record of Custody Relinquished by: <u>[Signature]</u> Date: <u>8/25/14</u> Company: _____ Received by: _____ Company: _____							
For eANALYTICS Use Samples Received Intact <input checked="" type="checkbox"/> / No Received Within Temperature Range (2-6°C) <input checked="" type="checkbox"/> / No Sample Preservative <u>None</u> / Acid / Other				Relinquished by: <u>[Signature]</u> Date: <u>8/25/14</u> Company: <u>eANALYTICS</u> Received by: <u>[Signature]</u> Date: <u>8/25/14</u> Company: <u>eANALYTICS</u>							

WO # 2026

eANALYTICS: Environmental testing made Easy

Page 1 of 1

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

eANALYTICS
LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 2026

Project: UPRC 15-3K & 6K

Analysis: Volatile Organics
TPHMethod: EPA8260
EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Total Xylenes mg/kg	TPH	TPH	TPH	Date Sampled	Date Analyzed	Lab ID
					GRO	DRO	ORO			
					C6-C10 mg/kg	C10-C28 mg/kg	C28-C36 mg/kg			
E01 @ 1'	< 0.01	< 0.01	< 0.01	0.274	68.7	208	< 50	08/25/14	08/25/14	2026 2

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

eANALYTICS
LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 2026

Project: UPRC 15-3K & 6K

Analysis: Volatile Organics

Method: EPA8260

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Date Sampled	Date Analyzed	Lab ID	
	ug/L	ug/L	ug/L	ug/L				
GW01	66.5	69.5	7.6	639	08/25/14	08/25/14	2026	1

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

eANALYTICS
LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 2026

Project: UPRC 15-3K & 6K

Method: EPA8260

Sample Name	Dibromo- fluoromethane % Recovery	1,2 Dichloro- ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo- fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
E01 @ 1'	105	95	111	91	08/25/14	08/25/14	2026 2

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

eANALYTICS
LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 2026

Project: UPRC 15-3K & 6K

Method: EPA8260

Sample Name	Dibromo- fluoromethane % Recovery	1,2 Dichloro- ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo- fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
GW01	99	91	97	105	08/25/14	08/25/14	2026 1

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

eANALYTICS

LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 2026

Project: UPRC 15-3K & 6K

Analysis: Volatile Organics
TPHMethod: EPA8260
EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO C6-C10	TPH DRO C10-C28	TPH ORO C28-C36	Date Analyzed	Lab ID		
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec				
Laboratory Control Sample	91	96	95	101	89	103	90	08/25/14	LCS	2026	1
(70-130%)											
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	08/25/14	MB	2026	1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

eANALYTICS
LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 2026

Project: UPRC 15-3K & 6K

Analysis: Volatile Organics

Method: EPA8260

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Date Analyzed	Lab ID		
	% Rec	% Rec	% Rec	% Rec				
Laboratory Control Sample	96	102	103	97	08/25/14	LCS	2026	1
(70-130%)								
Method Blank	< 1.0	< 1.0	< 1.0	< 1.0	08/25/14	MB	2026	1
	ug/L	ug/L	ug/L	ug/L				

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538