

November 30, 2015

Mr. Stephen Weathers, P.G.,
Principal Environmental Specialist
DCP Midstream, LP
370 17th Street, Ste. 2500
Denver, CO 80202

**RE: September 2015 Groundwater Monitoring Event
County Road 20 and Highway 85 – Ft. Lupton, Colorado**

Dear Mr. Weathers:

This letter report summarizes data obtained during supplemental groundwater monitoring activities conducted on September 24, 2015, at the County Road 20 and Highway 85 location (Site) north of Ft. Lupton, Colorado (Figure 1). Tasman Geosciences (Tasman) conducted these activities on behalf of DCP Midstream, LP (DCP) as part of the quarterly groundwater monitoring and sampling program at the Site.

The field data and laboratory analytical results collected during the monitoring event are briefly summarized and included herein.

Groundwater Elevation Monitoring

Groundwater elevations at the Site ranged from 4,863.21 feet above mean sea level (AMSL) in monitoring well BH07 to 4,863.35 feet AMSL in monitoring wells BH06. Groundwater flow at the Site during the September 2015 monitoring event trends to the northwest with a gradient of 0.0013 foot per foot (ft/ft) between BH06 and BH07. Groundwater elevations collected during the September 2015 monitoring event are presented in Table 1 and the monitor well locations are shown on Figure 2. The groundwater elevation contours are shown on Figure 3.

Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements, groundwater samples were collected from five monitor wells (BH01-BH03, BH05, and BH06) at the Site using dedicated polyethylene bailers. Note, BH07 had a sheen of NAPL and was not sampled. Analytical results for benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations in groundwater samples collected during the monitoring event are summarized in Table 2. Groundwater concentrations for the Site are shown on Figure 4. The laboratory analytical report is included as Appendix A.

The results of the September sampling event show benzene concentrations exceeded the Colorado Oil and Gas Commission (COGCC) groundwater standard of 5 micrograms per liter ($\mu\text{g/L}$) in BH02 (20 $\mu\text{g/L}$). All other BTEX constituents in all wells sampled were below laboratory detection limits or below applicable COGCC groundwater standards.

Should you have any questions regarding this letter or the field data presented herein, please contact me by e-mail at bhumphrey@tasman-geo.com.

Sincerely,



Brian Humphrey
Environmental Scientist
Tasman Geosciences, Inc.

Enclosures:

Table 1 – Summary of Groundwater Elevation Data – September 2015 Monitoring Event
Table 2 – Summary of BTEX Concentrations in Groundwater – September 2015 Monitoring Event
Figure 1 – Site Location Map
Figure 2 – Site Map with Monitoring Well Locations
Figure 3 – Groundwater Elevation Contour Map – September 2015 Monitoring Event
Figure 4 – Analytical Results Map
Appendix A – Laboratory Analytical Report

cc:
file

Tables

TABLE 1
SEPTEMBER 2015 MONITORING EVENT
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP CR 20 and HWY 85 RELEASE
WELD COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
BH01	5/14/2015	15.52			18.20	4,875.68	4,860.16	NA
BH01	9/24/2015	12.37			17.92	4,875.68	4,863.31	3.15
BH02	5/14/2015	14.47			18.42	4,874.94	4,860.47	NA
BH02	9/24/2015	11.72			18.49	4,874.94	4,863.22	2.75
BH03	5/14/2015	14.26			18.30	4,874.51	4,860.25	NA
BH03	9/24/2015	11.25			18.52	4,874.51	4,863.26	3.01
BH05	5/14/2015	14.48			19.31	4,874.67	4,860.19	NA
BH05	9/24/2015	11.40			19.00	4,874.67	4,863.27	3.08
BH06	5/14/2015	14.91			18.76	4,874.95	4,860.04	NA
BH06	9/24/2015	11.60			18.52	4,874.95	4,863.35	3.31
BH07	5/14/2015	14.87			18.70	4,874.02	4,859.15	NA
BH07	9/24/2015	10.83			18.56	4,874.04	4,863.21	4.06
Average Change in groundwater elevation between 5/14/15 and 9/24/15								3.23

Notes:

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement
amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water)

NM = Not Measured

NA = Not Applicable

TABLE 2
SEPTEMBER 2015 MONITORING EVENT
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
DCP CR 20 AND HWY 85 RELEASE
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
BH01	9/24/2015	<1.0	<1.0	<1.0	<1.0	
BH02	9/24/2015	20	<1.0	48	370	
BH03	9/24/2015	1.8	<1.0	7.0	150	
BH05	9/24/2015	<1.0	<1.0	<1.0	<1.0	
BH06	9/24/2015	<1.0	<1.0	<1.0	<1.0	
BH07	9/24/2015	NS	NS	NS	NS	Trace of NAPL

Notes:

Bold red values indicate an exceedance of the COGCC groundwater standards for the Site.

NS = Not sampled.

µg/L = micrograms per liter.

Figures

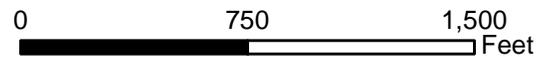
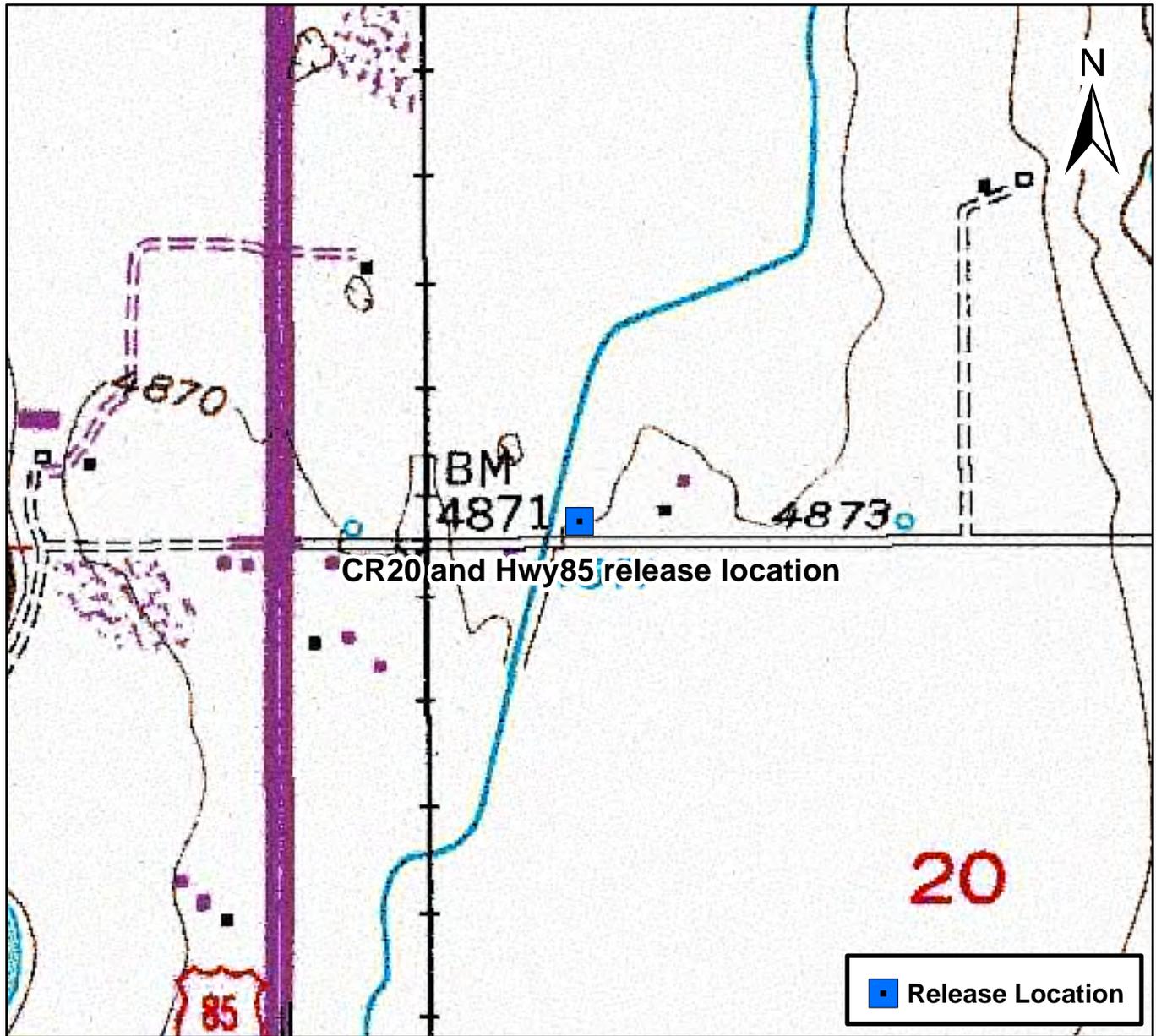


Figure 1

Site Location Map
 CR20 and Hwy85 release location
 SWSW S17 T2N R66W
 Weld County, Colorado

Drawn By: DBA
 Date: 06/04/2014





DATE:
October 2015

DESIGNED BY:
B. Humphrey

DRAWN BY:
D. Arnold

TASMAN Tasman Geosciences, Inc
GEOSCIENCES 6899 Pecos Street - Unit C
Denver, CO 80221

DCP Midstream
County Road 20 and Highway 85 Release
SWSW Section 17, Township 2 North, Range 66 West
Weld County, Colorado

Site Overview
Map

Figure
2



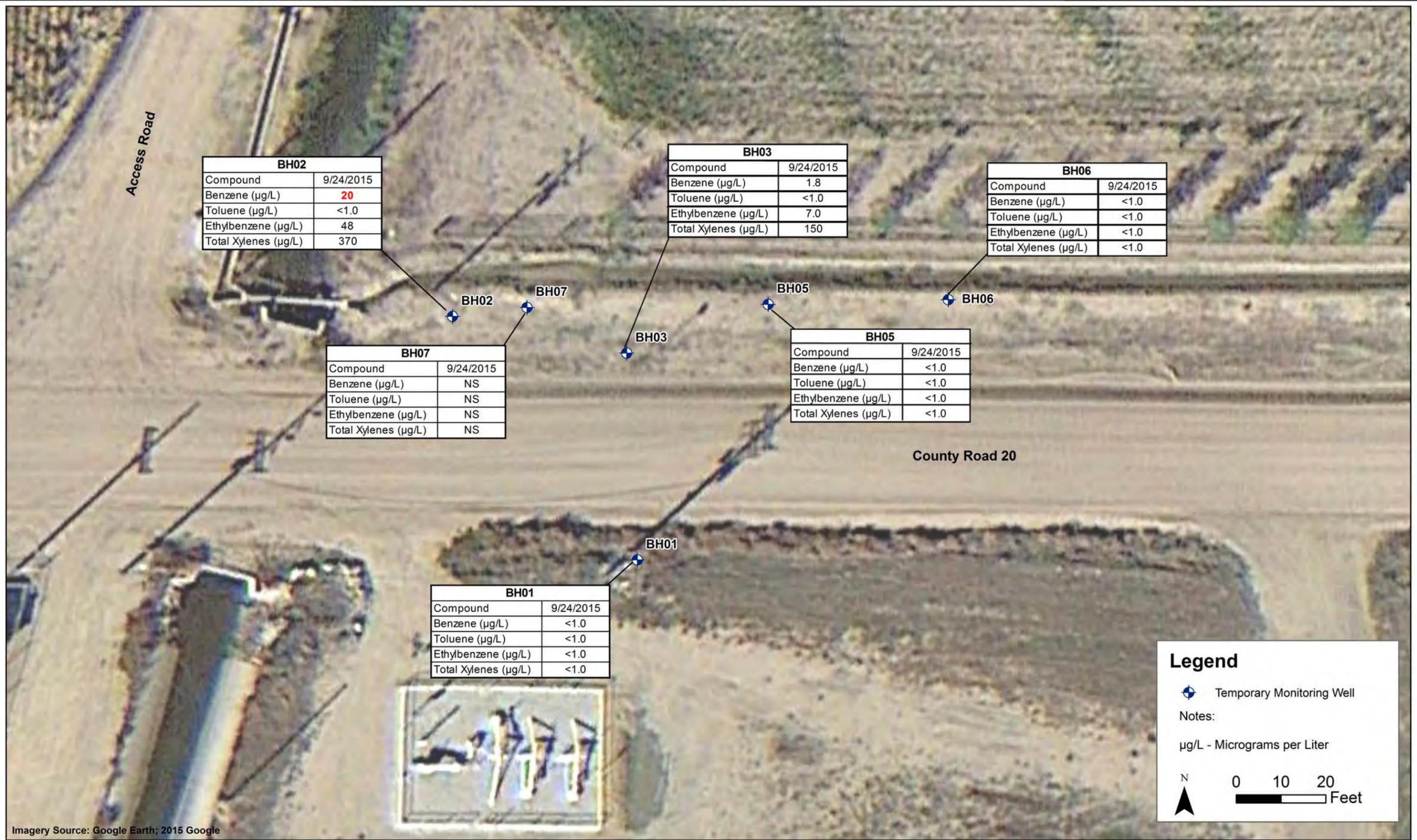
DATE: October 2015
 DESIGNED BY: B. Humphrey
 DRAWN BY: D. Arnold



DCP Midstream
County Road 20 and Highway 85 Release
 SWSW Section 17, Township 2 North, Range 66 West
 Weld County, Colorado

Groundwater Elevation
 Contour Map
 (September 24, 2015)

Figure
 3



Imagery Source: Google Earth; 2015 Google

DATE: November 2015
 DESIGNED BY: B. Humphrey
 DRAWN BY: D. Arnold



Tasman Geosciences, Inc
 6899 Pecos Street - Unit C
 Denver, CO 80221

DCP Midstream
County Road 20 and Highway 85 Release
 SWSW Section 17, Township 2 North, Range 66 West
 Weld County, Colorado

Groundwater Analytical
 Results Map
 (September 24, 2015)

Figure
 4

Appendix A

Laboratory Analytical Results

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 01, 2015

Brian Humphrey
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: CR20 + Hwy 85 Release

Enclosed are the results of analyses for samples received by Summit Scientific on 09/24/15 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: CR20 + Hwy 85 Release

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
10/01/15 09:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	1509227-01	Water	09/24/15 13:12	09/24/15 17:00
BH02	1509227-02	Water	09/24/15 12:49	09/24/15 17:00
BH03	1509227-03	Water	09/24/15 13:09	09/24/15 17:00
BH05	1509227-04	Water	09/24/15 12:50	09/24/15 17:00
BH06	1509227-05	Water	09/24/15 13:02	09/24/15 17:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: CR20 + Hwy 85 Release

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
10/01/15 09:40

Summit Scientific

150 9227

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-374-5933 Fax

Client: Tasman / DCP Midstream
Address: _____
City/State/Zip: _____
Phone: _____ Fax: _____
Sampler Name: Kate Forsmark

Page 1 of 1

Project Manager: Brian Humphrey
E-Mail: bhumphrey@tasman-geo.com
Project Name: CR 20 + Hwy 85
Project Number: _____

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)					
BH01	9/24/15	1312	3	X												
BH02		1249		X												
BH03		1309		X												
BH05		1250		X												
BH06	✓	1302		X												
Relinquished by: <u>[Signature]</u>		Date/Time: <u>9/24/15 1630</u>		Received by: <u>[Signature]</u>		Date/Time: <u>9/24/15 1700</u>		Turn Around Time (Check)				Notes:				
								Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>								
								24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>								
								48 Hours <input type="checkbox"/>								
Relinquished by: <u>[Signature]</u>		Date/Time: <u>9/24/15 1740</u>		Received in Lab by: _____		Date/Time: _____		Sample Integrity:				Temperature Upon Receipt: <u>6.2°C</u>				
								Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				on ice				

www.s2scientific.com



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: CR20 + Hwy 85 Release

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
10/01/15 09:40

BH01
1509227-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/24/15 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1509254	09/27/15	09/27/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/24/15 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>113 %</i>	<i>37-154</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>99.5 %</i>	<i>45-149</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>97.4 %</i>	<i>45-146</i>		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: CR20 + Hwy 85 Release

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
10/01/15 09:40

BH02
1509227-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/24/15 12:49**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	20	1.0	ug/l	1	1509254	09/27/15	09/27/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	48	1.0	"	"	"	"	"	"	
Xylenes (total)	370	1.0	"	"	"	"	"	"	

Date Sampled: **09/24/15 12:49**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.9 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	45-146		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: CR20 + Hwy 85 Release

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
10/01/15 09:40

BH03
1509227-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/24/15 13:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.8	1.0	ug/l	1	1509254	09/27/15	09/27/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	7.0	1.0	"	"	"	"	"	"	
Xylenes (total)	150	1.0	"	"	"	"	"	"	

Date Sampled: **09/24/15 13:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	45-146		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: CR20 + Hwy 85 Release

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
10/01/15 09:40

BH05
1509227-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/24/15 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1509254	09/27/15	09/27/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/24/15 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.4 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.7 %	45-146		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: CR20 + Hwy 85 Release

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
10/01/15 09:40

BH06
1509227-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/24/15 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1509254	09/27/15	09/27/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/24/15 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>111 %</i>	<i>37-154</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>97.9 %</i>	<i>45-149</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>97.6 %</i>	<i>45-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: CR20 + Hwy 85 Release

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
10/01/15 09:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1509254 - EPA 5030 Water MS

Blank (1509254-BLK1)

Prepared & Analyzed: 09/27/15

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.2		99.9	37-154			
Surrogate: Toluene-d8	12.9		"	13.3		96.5	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.2	45-146			

LCS (1509254-BS1)

Prepared & Analyzed: 09/27/15

Benzene	31.9	1.0	ug/l	33.3		95.6	51-132			
Toluene	32.5	1.0	"	33.3		97.6	51-138			
Ethylbenzene	33.0	1.0	"	33.1		99.9	58-146			
m,p-Xylene	61.7	2.0	"	66.5		92.7	57-144			
o-Xylene	29.8	1.0	"	32.8		90.8	53-146			
Surrogate: 1,2-Dichloroethane-d4	16.7		"	13.2		127	37-154			
Surrogate: Toluene-d8	15.2		"	13.3		114	45-149			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.7	45-146			

Matrix Spike (1509254-MS1)

Source: 1509227-01

Prepared & Analyzed: 09/27/15

Benzene	27.9	1.0	ug/l	33.3	ND	83.8	34-141			
Toluene	28.3	1.0	"	33.3	ND	84.9	27-151			
Ethylbenzene	35.6	1.0	"	33.1	ND	108	29-160			
m,p-Xylene	68.5	2.0	"	66.5	ND	103	20-166			
o-Xylene	33.2	1.0	"	32.8	ND	101	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.2		112	37-154			
Surrogate: Toluene-d8	12.9		"	13.3		96.5	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.4	45-146			

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: CR20 + Hwy 85 Release

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
10/01/15 09:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1509254 - EPA 5030 Water MS

Matrix Spike Dup (1509254-MSD1)	Source: 1509227-01			Prepared & Analyzed: 09/27/15						
Benzene	25.8	1.0	ug/l	33.3	ND	77.3	34-141	8.12	32	
Toluene	32.0	1.0	"	33.3	ND	95.9	27-151	12.1	25	
Ethylbenzene	35.6	1.0	"	33.1	ND	108	29-160	0.0562	50	
m,p-Xylene	68.4	2.0	"	66.5	ND	103	20-166	0.102	36	
o-Xylene	32.8	1.0	"	32.8	ND	100	33-159	0.969	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.1</i>		<i>"</i>	<i>13.2</i>		<i>107</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>14.2</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>		<i>97.1</i>	<i>45-146</i>			

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: CR20 + Hwy 85 Release

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
10/01/15 09:40

Notes and Definitions

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

Summit Scientific

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