



STATE OF
COLORADO

Axelson - DNR, John <john.axelson@state.co.us>

Re: TTOC

1 message

Axelson - DNR, John <john.axelson@state.co.us>
To: "Chase, Charles" <Charles.Chase@anadarko.com>

Wed, Jul 22, 2015 at 4:24 PM

Charles,

Thanks for providing this information.
John

John E. Axelson, P.G.
East Environmental Supervisor



P 303.894.2100 x5115 | F 303.894.2109 | C 303-916-0527
1120 Lincoln Street, Suite 801, Denver, CO 80203
john.axelson@state.co.us | www.colorado.gov/cogcc

On Wed, Jul 22, 2015 at 4:01 PM, Chase, Charles <Charles.Chase@anadarko.com> wrote:

Additionally here are the soil sampling results from the splits we took as well as the groundwater sample that was collected on site. The results from 7/14 have the groundwater sample and the results from 7/15 have the split soil samples. Please note that a sample was not properly run by the lab and a revised result is also attached. This revised report is in reference to the soil samples we took to move the meter.

Please let me know if you have any questions.

Thanks,

Charles

From: Chase, Charles
Sent: Wednesday, July 22, 2015 3:32 PM
To: Schneider, Paul; Axelson - DNR, John
Subject: RE: TTOC

Hey John,

I just visited Miller and APC operations has moved the meter so the compressor station can be brought back online. They are currently waiting on concrete to pour caissons for pipe support. They're hoping to be online by Friday at the latest.

Regarding TTOC's activity, no activity has occurred at the facility since Wednesday when they collected soil samples. The excavation is starting to slough on the east side wall where TTOC had been stockpiling impacted material. This impacted material is starting to fall back into the excavation. Please see the attached pictures for further detail.

I spoke with Bob Parker today, and he was under the impression that by moving our meter that we had cleaned up TTOC's impacts. I relayed to him that we have not moved any material and that any additional cleanup would need to be handled between COGCC and TTOC. He seemed upset and for some reason thought that Anadarko had removed all of the impacted soil. I'm not sure how he came to that conclusion.

Thanks,

Charles Chase

From: Schneider, Paul
Sent: Wednesday, July 22, 2015 2:04 PM
To: Axelson - DNR, John
Cc: Chase, Charles
Subject: TTOC

Hey John,

I just talked to Charles. Later today or tomorrow he should be able to get you the lab rept and an excavation sketch for the split samples we collected from the TTOC excavation at our Miller Compressor Station. Charles said they did not collect a gw sample, but we did, and that data will be included in what he sends you. He's going to be at the site in a little while, so he should be able to give you an update on how things look out there.

Paul Schneider, PG

HSE Manager- Colorado

Anadarko Petroleum Corporation

[720-929-6726](tel:720-929-6726) (office)

[303-868-6665](tel:303-868-6665) (cell)

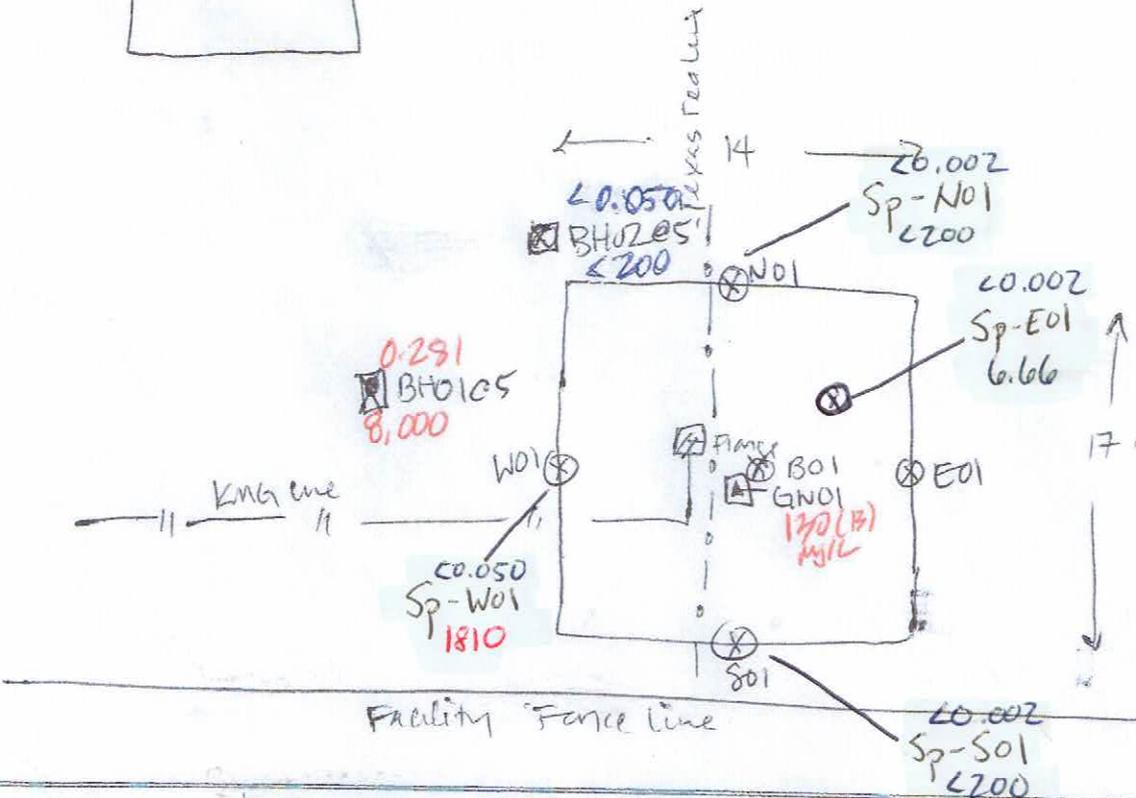
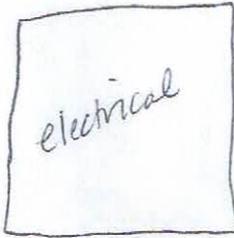
[Click here for Anadarko's Electronic Mail Disclaimer](#)

Site Name:

N ↑

Facility Entrance ↑

APC
Tank Battery ↑



Notes:

Surface Drainage at Facility (not regional):

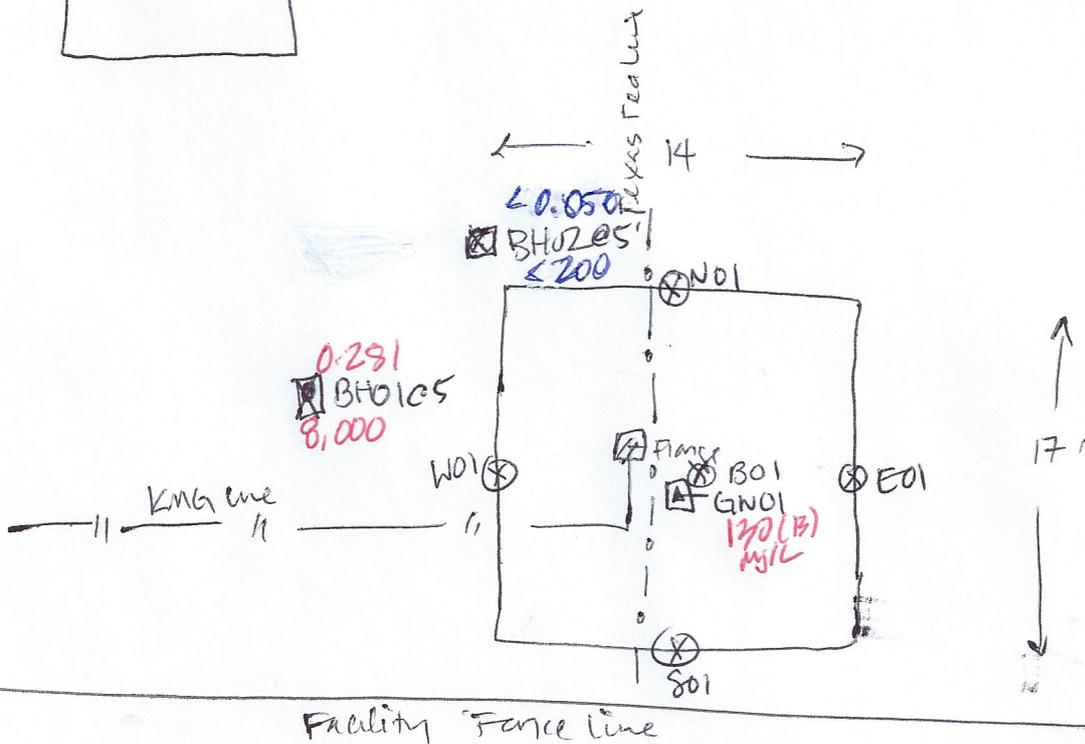
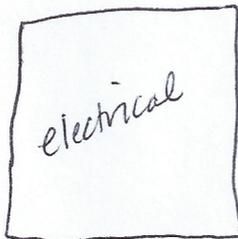


Site Name:

N ↑

Facility Entrance ↑

APC Tank Battery ↑



Notes:

Surface Drainage at Facility (not regional):

N ↑

Boring/Well ID #: <u>BH01</u>	SITE NAME: <u>Miller Compressor</u>	CLIENT NAME: <u>NSR - Midstream</u>
Date Started: <u>7/14/15</u>	Location: <u>Miller compressor station</u>	
Date Completed: <u>7/14/15</u>	TOC Elevation:	DTW: <u>6</u>
Type of Drill: <u>hand auger</u>	Geologist: <u>C. Waske</u>	
Bit Size:	Project Manager: <u>C. Waske</u>	
Drilling Company: <u>N/A</u>		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	NO well installed	grab	100%	0.2			0-6" Cobble backfill	
2				1.9			fine sand, no staining, no hydrocarbon odor, dry	
3				4.9				
4					20.4			
5					38.0	BH01C5		
6					45.8	1325		Moist; as above Wet at 6'
7					BH01C6 1330	NO20		
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Boring/Well ID #: BH02	SITE NAME: Miller Compressor	CLIENT NAME: APL midstream
Date Started: 7/14/15	Location: Miller station	
Date Completed: 7/14/15	TOC Elevation:	DTW: 6'
Type of Drill: hand digger	Geologist: C. Wasko	
Bit Size: N/A	Project Manager: C. Wasko	
Drilling Company: N/A		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	No well completed	grab	100%	0.4			Fine sand, dry, no staining or hydrocarbon odor	
2				22.2				
3				33.0				
4				60.4				
5				71.1	BH02c5'			moist; as above
6				21.0	1335			saturated; as above
7					BH02c6'			
8					1340	Hand		
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July 15, 2015

Tasman Geosciences

Christine Wasko

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Miller Compressor Station Project Number - 88824662

Attached are your analytical results for KMG - Miller Compressor Station received by Origins Laboratory, Inc. July 14, 2015. This project is associated with Origins project number X507180-06.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: 88824662
Project: KMG - Miller Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	X507180-06	Water	July 14, 2015 9:45	07/14/2015 17:00
BH01 @ 5'	X507180-07	Soil	July 14, 2015 13:25	07/14/2015 17:00
BH02 @ 5'	X507180-09	Soil	July 14, 2015 13:35	07/14/2015 17:00

Origins Laboratory, Inc.



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, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

ORIGINS
 LABORATORY, INC

X507180

page 7 of 7

Client:	Tasman / APC	Project Manager:	Christine Wasko
Address:	6899 Pecos St - Unit C, Denver CO	Project Name:	Miller Compressor Station
Telephone Number:	(720) 409-8791	Project Number:	W07 88824662
Email Address:	CWasko@Tasman-Geo.com	Samples Collected By:	

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unterserved	HC	HO	Other	Soil	Other		
60105'	7/14/15	915	1	X			X				HO/D
50103.5'		920	1	X			X				HO/D
40102.5'		925	1	X			X				HO/D
80103.5'		880	1	X			X				HO/D
40103.5'		935	1	X			X				HO/D
G1001		945	2	X			X				Inter - Only
BH1105'		1325	1	X			X				HO/D
BH1106'		1330	1	X			X				HO/D
BH1025'		1335	1	X			X				HO/D
BH1026'		1340	1	X			X				HO/D
Relinquished By:			Time: 1430	Date: 7/14/15	Received By:		Date: 7/14/15	Time: 1700	Turnaround Time: Same Day		
Relinquished By:			Time: 1700	Date: 7/14/15	Received By:		Date: 7/14/15	Time: 1700	Turnaround Time: 48 Hr		

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: XS07180

Client: Tasman
 Client Project ID: Miller Compressor Station

Checklist Completed by: Jeff Smith

Shipped Via: Pick Up
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/14/15

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 4.2 °C 1 °C 1 °C (Describe)

Thermometer ID: T203

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		✓		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			✓	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Jeff Smith
 Reviewed by (Project Manager)

7/14/15
 Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

GW01

7/14/2015 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507180-06 (Water)

BTEX by EPA 8260C

Benzene	130	4.0	ug/L	4	5G14008	07/14/2015	07/14/2015	
Toluene	503	4.0	"	"	"	"	"	
Ethylbenzene	96.1	4.0	"	"	"	"	"	
Xylenes, total	798	4.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.6 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	88.6-111			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

BH01 @ 5'
7/14/2015 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507180-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	7000	500	mg/kg	10	5G14015	07/14/2015	07/15/2015	
Residual Range Organics (C28-C36)	ND	2000	"	"	"	"	"	

Surrogate: *o*-Terphenyl % 59-131 " " " S-04

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1000	50.0	mg/kg	250	5G14016	07/14/2015	07/15/2015	
Benzene	0.281	0.050	"	25	"	"	07/15/2015	
Toluene	5.31	0.050	"	"	"	"	"	
Ethylbenzene	1.73	0.050	"	"	"	"	"	
Xylenes, total	22.1	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "

Surrogate: Toluene-d8 122 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 129 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

BH02 @ 5'
7/14/2015 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507180-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G14015	07/14/2015	07/15/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 86.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	5G14016	07/14/2015	07/15/2015	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 94.3 % 70-130 " " "
Surrogate: Toluene-d8 105 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14008 - EPA 5030B (Water)

Blank (5G14008-BLK1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102		87.3-113			
Surrogate: Toluene-d8	61		"	62.5	96.9		90.9-108			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.5		88.6-111			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14008 - EPA 5030B (Water)

LCS (5G14008-BS1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Benzene	50.1	1.0	ug/L	50.0		100	75-126			
Toluene	49.0	1.0	"	50.0		98.0	78.7-126			
Ethylbenzene	52.1	1.0	"	50.0		104	80-130			
m,p-Xylene	106	2.0	"	100		106	77.2-133			
o-Xylene	55.5	1.0	"	50.0		111	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.3	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		100	90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.4	88.6-111			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14008 - EPA 5030B (Water)

Matrix Spike (5G14008-MS1)	Source: X507153-01			Prepared: 07/14/2015 Analyzed: 07/14/2015						
Benzene	41.6	1.0	ug/L	50.0	ND	83.2	74-130			
Toluene	40.5	1.0	"	50.0	ND	81.0	73-131			
Ethylbenzene	44.6	1.0	"	50.0	ND	89.2	76-132			
m,p-Xylene	92.7	2.0	"	100	ND	92.7	69-139			
o-Xylene	48.5	1.0	"	50.0	ND	97.0	74-131			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	87.3-113			
Surrogate: Toluene-d8	61		"	62.5		98.0	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	88.6-111			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14008 - EPA 5030B (Water)

Matrix Spike Dup (5G14008-MSD1)	Source: X507153-01			Prepared: 07/14/2015 Analyzed: 07/14/2015						
Benzene	58.8	1.0	ug/L	50.0	ND	118	74-130	34.1	20	QR-02
Toluene	55.3	1.0	"	50.0	ND	111	73-131	30.9	20	QR-02
Ethylbenzene	57.4	1.0	"	50.0	ND	115	76-132	25.0	20	QR-02
m,p-Xylene	119	2.0	"	100	ND	119	69-139	24.8	20	QR-02
o-Xylene	63.3	1.0	"	50.0	ND	127	74-131	26.5	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.8	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.5	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	88.6-111			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14016 - EPA 5030 (soil)

Blank (5G14016-BLK1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	62.5		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	62.4		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	64.1		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14016 - EPA 5030 (soil)

LCS (5G14016-BS1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Benzene	0.092	0.002	mg/kg	0.100		92.1	77.1-124			
Toluene	0.093	0.002	"	0.100		93.4	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		89.4	66.4-127			
m,p-Xylene	0.186	0.004	"	0.200		92.8	76.6-124			
o-Xylene	0.092	0.002	"	0.100		91.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63.0		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	63.1		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	50.7		"	62.5		81.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14016 - EPA 5030 (soil)

Matrix Spike (5G14016-MS1)	Source: X507179-01			Prepared: 07/14/2015 Analyzed: 07/14/2015						
Benzene	0.094	0.002	mg/kg	0.100	0.0006	93.5	71.8-126			
Toluene	0.089	0.002	"	0.100	ND	88.5	65.1-130			
Ethylbenzene	0.091	0.002	"	0.100	ND	90.8	62.2-130			
m,p-Xylene	0.193	0.004	"	0.200	ND	96.5	46.5-137			
o-Xylene	0.096	0.002	"	0.100	ND	96.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61.9		ug/kg	62.5		99.1	70-130			
Surrogate: Toluene-d8	61.1		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62.0		"	62.5		99.2	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14016 - EPA 5030 (soil)

Matrix Spike Dup (5G14016-MSD1)		Source: X507179-01			Prepared: 07/14/2015 Analyzed: 07/14/2015					
Benzene	0.103	0.002	mg/kg	0.100	0.0006	102	71.8-126	8.90	11.3	
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130	16.0	15.4	QR-02
Ethylbenzene	0.086	0.002	"	0.100	ND	86.2	62.2-130	5.20	19.6	
m,p-Xylene	0.174	0.004	"	0.200	ND	86.9	46.5-137	10.5	19.2	
o-Xylene	0.070	0.002	"	0.100	ND	70.2	54.2-134	31.4	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	62.6		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	61.3		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	44.9		"	62.5		71.8	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14015 - EPA 3580

Blank (5G14015-BLK1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	44		"	50.0		88.7	59-131			

LCS (5G14015-BS1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Diesel (C10-C28)	870	50	mg/kg	1000		86.9	64-121			
Residual Range Organics (C28-C36)	1100	200	"	1000		108	58-124			
Surrogate: o-Terphenyl	48		"	50.0		96.7	59-131			

Matrix Spike (5G14015-MS1)

Source: X507166-01

Prepared: 07/14/2015 Analyzed: 07/14/2015

Diesel (C10-C28)	760	50	mg/kg	1000	17	74.5	53-125			
Residual Range Organics (C28-C36)	900	200	"	1000	ND	89.5	47-133			
Surrogate: o-Terphenyl	42		"	50.0		83.5	59-131			

Matrix Spike Dup (5G14015-MSD1)

Source: X507166-01

Prepared: 07/14/2015 Analyzed: 07/14/2015

Diesel (C10-C28)	760	50	mg/kg	1000	17	74.2	53-125	0.382	20	
Residual Range Organics (C28-C36)	870	200	"	1000	ND	87.3	47-133	2.56	20	
Surrogate: o-Terphenyl	41		"	50.0		82.3	59-131			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: 88824662
Project: KMG - Miller Compressor Station

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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July 15, 2015

Tasman Geosciences

Christine Wasko

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Miller Compressor Station Project Number - 88824662

Attached are your analytical results for KMG - Miller Compressor Station received by Origins Laboratory, Inc. July 14, 2015. This project is associated with Origins project number X507180-06.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: 88824662
Project: KMG - Miller Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	X507180-06	Water	July 14, 2015 9:45	07/14/2015 17:00
BH01 @ 5'	X507180-07	Soil	July 14, 2015 13:25	07/14/2015 17:00
BH02 @ 5'	X507180-09	Soil	July 14, 2015 13:35	07/14/2015 17:00

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

ORIGINS
 LABORATORY, INC

X507180

page 7 of 7

Client:	Tasman / APC	Project Manager:	Christine Wasko
Address:	6899 Pecos St - Unit C, Denver CO	Project Name:	Miller Compressor Station
Telephone Number:	(720) 409-8791	Project Number:	W07 88824662
Email Address:	CWasko@Tasman-Geo.com	Samples Collected By:	

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unterserved	HCl	HNO ₃	Other	Soil	Other		
60105'	7/14/15	915	1	X			X				Hold
50103.5'		920	1	X			X				Hold
40102.5'		925	1	X			X				Hold
80103.5'		880	1	X			X				Hold
40103.5'		935	1	X			X				Hold
61001		945	2	X			X				Inter-Only
80105'		1325	1	X			X				Hold
80106'		1330	1	X			X				Hold
80105'		1335	1	X			X				Hold
80106'		1340	1	X			X				Hold
Requisitioned By:		Date: 7/14/15	Time: 1430	Received By:		Date:	Time:	Turnaround Time:			Same Day <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Requisitioned By:		Date: 7/14/15	Time: 1700	Received By:		Date: 7/14/15	Time: 1700				

Origins Laboratory, Inc.

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: XS07180

Client: Tasman
 Client Project ID: Miller Compressor Station

Checklist Completed by: Jeff Smith

Shipped Via: Pick Up
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/14/15

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 4.2 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: T203

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		✓		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			✓	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

[Signature]
 Reviewed by (Project Manager)

7/14/15
 Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

GW01

7/14/2015 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X507180-06 (Water)

BTEX by EPA 8260C

Benzene	130	4.0	ug/L	4	5G14008	07/14/2015	07/14/2015	
Toluene	503	4.0	"	"	"	"	"	
Ethylbenzene	96.1	4.0	"	"	"	"	"	
Xylenes, total	798	4.0	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>100 %</i>	<i>87.3-113</i>			"	"	"	
<i>Surrogate: Toluene-d8</i>	<i>99.6 %</i>	<i>90.9-108</i>			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101 %</i>	<i>88.6-111</i>			"	"	"	

Origins Laboratory, Inc.



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, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

BH01 @ 5'
 7/14/2015 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X507180-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G14015	07/14/2015	07/15/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 99.8 % 59-131 " " " S-04

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5G14016	07/14/2015	07/15/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "

Surrogate: Toluene-d8 92.9 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

BH02 @ 5'
 7/14/2015 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X507180-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G14015	07/14/2015	07/15/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 86.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	5G14016	07/14/2015	07/15/2015	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 94.3 % 70-130 " " "

Surrogate: Toluene-d8 105 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14008 - EPA 5030B (Water)

Blank (5G14008-BLK1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>64</i>		<i>"</i>	<i>62.5</i>	<i>102</i>	<i>87.3-113</i>				
<i>Surrogate: Toluene-d8</i>	<i>61</i>		<i>"</i>	<i>62.5</i>	<i>96.9</i>	<i>90.9-108</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>59</i>		<i>"</i>	<i>62.5</i>	<i>94.5</i>	<i>88.6-111</i>				

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14008 - EPA 5030B (Water)

LCS (5G14008-BS1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Benzene	50.1	1.0	ug/L	50.0	100	75-126				
Toluene	49.0	1.0	"	50.0	98.0	78.7-126				
Ethylbenzene	52.1	1.0	"	50.0	104	80-130				
m,p-Xylene	106	2.0	"	100	106	77.2-133				
o-Xylene	55.5	1.0	"	50.0	111	77.9-126				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>61</i>		<i>"</i>	<i>62.5</i>	<i>97.3</i>	<i>87.3-113</i>				
<i>Surrogate: Toluene-d8</i>	<i>63</i>		<i>"</i>	<i>62.5</i>	<i>100</i>	<i>90.9-108</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>61</i>		<i>"</i>	<i>62.5</i>	<i>98.4</i>	<i>88.6-111</i>				

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Christine Wasko
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 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14008 - EPA 5030B (Water)

Matrix Spike (5G14008-MS1)	Source: X507153-01			Prepared: 07/14/2015 Analyzed: 07/14/2015						
Benzene	41.6	1.0	ug/L	50.0	ND	83.2	74-130			
Toluene	40.5	1.0	"	50.0	ND	81.0	73-131			
Ethylbenzene	44.6	1.0	"	50.0	ND	89.2	76-132			
m,p-Xylene	92.7	2.0	"	100	ND	92.7	69-139			
o-Xylene	48.5	1.0	"	50.0	ND	97.0	74-131			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>69</i>		<i>"</i>	<i>62.5</i>		<i>110</i>	<i>87.3-113</i>			
<i>Surrogate: Toluene-d8</i>	<i>61</i>		<i>"</i>	<i>62.5</i>		<i>98.0</i>	<i>90.9-108</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>63</i>		<i>"</i>	<i>62.5</i>		<i>101</i>	<i>88.6-111</i>			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G14008 - EPA 5030B (Water)										
Matrix Spike Dup (5G14008-MSD1)			Source: X507153-01			Prepared: 07/14/2015 Analyzed: 07/14/2015				
Benzene	58.8	1.0	ug/L	50.0	ND	118	74-130	34.1	20	QR-02
Toluene	55.3	1.0	"	50.0	ND	111	73-131	30.9	20	QR-02
Ethylbenzene	57.4	1.0	"	50.0	ND	115	76-132	25.0	20	QR-02
m,p-Xylene	119	2.0	"	100	ND	119	69-139	24.8	20	QR-02
o-Xylene	63.3	1.0	"	50.0	ND	127	74-131	26.5	20	QR-02
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>98.8</i>	<i>87.3-113</i>			
<i>Surrogate: Toluene-d8</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>99.5</i>	<i>90.9-108</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>63</i>		<i>"</i>	<i>62.5</i>		<i>100</i>	<i>88.6-111</i>			

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 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14016 - EPA 5030 (soil)

Blank (5G14016-BLK1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62.5</i>		<i>ug/kg</i>	<i>62.5</i>		<i>100</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62.4</i>		<i>"</i>	<i>62.5</i>		<i>99.8</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>64.1</i>		<i>"</i>	<i>62.5</i>		<i>103</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14016 - EPA 5030 (soil)

LCS (5G14016-BS1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Benzene	0.092	0.002	mg/kg	0.100		92.1	77.1-124			
Toluene	0.093	0.002	"	0.100		93.4	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		89.4	66.4-127			
m,p-Xylene	0.186	0.004	"	0.200		92.8	76.6-124			
o-Xylene	0.092	0.002	"	0.100		91.5	76.6-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>63.0</i>		<i>ug/kg</i>	<i>62.5</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>63.1</i>		<i>"</i>	<i>62.5</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.7</i>		<i>"</i>	<i>62.5</i>		<i>81.1</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14016 - EPA 5030 (soil)

Matrix Spike (5G14016-MS1)	Source: X507179-01			Prepared: 07/14/2015 Analyzed: 07/14/2015						
Benzene	0.094	0.002	mg/kg	0.100	0.0006	93.5	71.8-126			
Toluene	0.089	0.002	"	0.100	ND	88.5	65.1-130			
Ethylbenzene	0.091	0.002	"	0.100	ND	90.8	62.2-130			
m,p-Xylene	0.193	0.004	"	0.200	ND	96.5	46.5-137			
o-Xylene	0.096	0.002	"	0.100	ND	96.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61.9		ug/kg	62.5		99.1	70-130			
Surrogate: Toluene-d8	61.1		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62.0		"	62.5		99.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14016 - EPA 5030 (soil)

Matrix Spike Dup (5G14016-MSD1)	Source: X507179-01			Prepared: 07/14/2015 Analyzed: 07/14/2015						
Benzene	0.103	0.002	mg/kg	0.100	0.0006	102	71.8-126	8.90	11.3	
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130	16.0	15.4	QR-02
Ethylbenzene	0.086	0.002	"	0.100	ND	86.2	62.2-130	5.20	19.6	
m,p-Xylene	0.174	0.004	"	0.200	ND	86.9	46.5-137	10.5	19.2	
o-Xylene	0.070	0.002	"	0.100	ND	70.2	54.2-134	31.4	17.9	QR-02
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62.6</i>		<i>ug/kg</i>	<i>62.5</i>		<i>100</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61.3</i>		<i>"</i>	<i>62.5</i>		<i>98.1</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.9</i>		<i>"</i>	<i>62.5</i>		<i>71.8</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: 88824662
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G14015 - EPA 3580

Blank (5G14015-BLK1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
<i>Surrogate: o-Terphenyl</i>	44		"	50.0		88.7	59-131			

LCS (5G14015-BS1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Diesel (C10-C28)	870	50	mg/kg	1000		86.9	64-121			
Residual Range Organics (C28-C36)	1100	200	"	1000		108	58-124			
<i>Surrogate: o-Terphenyl</i>	48		"	50.0		96.7	59-131			

Matrix Spike (5G14015-MS1)

Source: X507166-01

Prepared: 07/14/2015 Analyzed: 07/14/2015

Diesel (C10-C28)	760	50	mg/kg	1000	17	74.5	53-125			
Residual Range Organics (C28-C36)	900	200	"	1000	ND	89.5	47-133			
<i>Surrogate: o-Terphenyl</i>	42		"	50.0		83.5	59-131			

Matrix Spike Dup (5G14015-MSD1)

Source: X507166-01

Prepared: 07/14/2015 Analyzed: 07/14/2015

Diesel (C10-C28)	760	50	mg/kg	1000	17	74.2	53-125	0.382	20	
Residual Range Organics (C28-C36)	870	200	"	1000	ND	87.3	47-133	2.56	20	
<i>Surrogate: o-Terphenyl</i>	41		"	50.0		82.3	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: 88824662
Project: KMG - Miller Compressor Station

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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.

Noelle Doyle Mathis, President

July 16, 2015

Tasman Geosciences

Christine Wasko

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Miller Compressor Station Project Number - [none]

Attached are your analytical results for KMG - Miller Compressor Station received by Origins Laboratory, Inc. July 15, 2015. This project is associated with Origins project number X507201-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Miller Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Split-E01 @ 4	X507201-01	Soil	July 15, 2015 10:42	07/15/2015 16:44
Split-W01 @ 4	X507201-02	Soil	July 15, 2015 10:46	07/15/2015 16:44
Split-S01 @ 4	X507201-03	Soil	July 15, 2015 10:48	07/15/2015 16:44
Split-N01 @ 4	X507201-04	Soil	July 15, 2015 10:50	07/15/2015 16:44

Origins Laboratory, Inc.



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, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - Miller Compressor Station

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: XS07201

Client: Tasman

Client Project ID: Miller Compressor Station

Checklist Completed by: Jefe Smith

Shipped Via: Pick Up
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/15/13

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 1.2 °C 1 °C 1 °C (Describe)

Thermometer ID: JOS3

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			✓	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Jefe Smith
 Reviewed by (Project Manager)

7/15/13
 Date/Time Reviewed

Origins Laboratory, Inc.



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, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - Miller Compressor Station

Split-E01 @ 4
7/15/2015 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507201-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G15006	07/15/2015	07/15/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 86.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	6.66	0.200	mg/kg	1	5G15005	07/15/2015	07/15/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	0.006	0.002	"	"	"	"	"	
Ethylbenzene	0.002	0.002	"	"	"	"	"	
Xylenes, total	0.074	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
Surrogate: Toluene-d8 92.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

Origins Laboratory, Inc.



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, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - Miller Compressor Station

Split-W01 @ 4
7/15/2015 10:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507201-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	770	50	mg/kg	1	5G15006	07/15/2015	07/15/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 104 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1040	50.0	mg/kg	250	5G15005	07/15/2015	07/15/2015	
Benzene	ND	0.050	"	25	"	"	07/15/2015	
Toluene	1.15	0.050	"	"	"	"	"	
Ethylbenzene	0.612	0.050	"	"	"	"	"	
Xylenes, total	10.4	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "

Surrogate: Toluene-d8 121 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 116 % 70-130 " " "

Origins Laboratory, Inc.



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, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - Miller Compressor Station

Split-S01 @ 4
7/15/2015 10:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507201-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G15006	07/15/2015	07/15/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 89.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5G15005	07/15/2015	07/15/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "

Surrogate: Toluene-d8 88.2 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - Miller Compressor Station

Split-N01 @ 4
7/15/2015 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507201-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G15006	07/15/2015	07/15/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 88.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5G15005	07/15/2015	07/15/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "

Surrogate: Toluene-d8 92.5 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G15005 - EPA 5030 (soil)

Blank (5G15005-BLK1)

Prepared: 07/15/2015 Analyzed: 07/15/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	62.7		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	58.8		"	62.5		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	64.4		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G15005 - EPA 5030 (soil)

LCS (5G15005-BS1)

Prepared: 07/15/2015 Analyzed: 07/15/2015

Benzene	0.095	0.002	mg/kg	0.100		94.8	77.1-124			
Toluene	0.087	0.002	"	0.100		86.8	74.5-128			
Ethylbenzene	0.087	0.002	"	0.100		86.9	66.4-127			
m,p-Xylene	0.181	0.004	"	0.200		90.3	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59.5		ug/kg	62.5		95.2	70-130			
Surrogate: Toluene-d8	59.6		"	62.5		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	64.0		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G15005 - EPA 5030 (soil)

Matrix Spike (5G15005-MS1)	Source: X507187-01			Prepared: 07/15/2015 Analyzed: 07/15/2015						
Benzene	0.092	0.002	mg/kg	0.100	ND	91.8	71.8-126			
Toluene	0.083	0.002	"	0.100	ND	82.9	65.1-130			
Ethylbenzene	0.082	0.002	"	0.100	ND	81.8	62.2-130			
m,p-Xylene	0.170	0.004	"	0.200	ND	84.8	46.5-137			
o-Xylene	0.089	0.002	"	0.100	ND	88.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62.3		ug/kg	62.5		99.6	70-130			
Surrogate: Toluene-d8	58.2		"	62.5		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	64.0		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G15005 - EPA 5030 (soil)

Matrix Spike Dup (5G15005-MSD1)	Source: X507187-01			Prepared: 07/15/2015 Analyzed: 07/15/2015						
Benzene	0.077	0.002	mg/kg	0.100	ND	77.0	71.8-126	17.5	11.3	QM-07
Toluene	0.068	0.002	"	0.100	ND	67.7	65.1-130	20.2	15.4	QM-07
Ethylbenzene	0.065	0.002	"	0.100	ND	65.3	62.2-130	22.4	19.6	QM-07
m,p-Xylene	0.137	0.004	"	0.200	ND	68.5	46.5-137	21.3	19.2	QM-07
o-Xylene	0.072	0.002	"	0.100	ND	71.7	54.2-134	21.2	17.9	QM-07
Surrogate: 1,2-Dichloroethane-d4	62.9		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	58.2		"	62.5		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	64.6		"	62.5		103	70-130			

Origins Laboratory, Inc.



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, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - Miller Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G15006 - EPA 3580

Blank (5G15006-BLK1)

Prepared: 07/15/2015 Analyzed: 07/15/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	46		"	50.0		92.4	59-131			

LCS (5G15006-BS1)

Prepared: 07/15/2015 Analyzed: 07/15/2015

Diesel (C10-C28)	930	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	1100	200	"	1000		106	58-124			
Surrogate: o-Terphenyl	50		"	50.0		99.3	59-131			

Matrix Spike (5G15006-MS1)

Source: X507187-01

Prepared: 07/15/2015 Analyzed: 07/15/2015

Diesel (C10-C28)	910	50	mg/kg		17		53-125			
Residual Range Organics (C28-C36)	1000	200	"	1000	ND	104	47-133			
Surrogate: o-Terphenyl	48		"	50.0		95.8	59-131			

Matrix Spike Dup (5G15006-MSD1)

Source: X507187-01

Prepared: 07/15/2015 Analyzed: 07/15/2015

Diesel (C10-C28)	960	50	mg/kg		17		53-125	5.60	20	
Residual Range Organics (C28-C36)	1100	200	"	1000	ND	111	47-133	6.06	20	
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			

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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, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Miller Compressor Station

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President