

ANALYTICAL TABLES

TABLE 1
ST. VRAIN ASSOCIATION #1
SOIL SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample ID	Date Sampled	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH - GRO (mg/kg)	TEPH - DRO (mg/kg)	TEPH - ORO (mg/kg)	Electrical Conductivity (EC) (mmhos/cm)	pH (units)
COGCC standards for soil (mg/kg) ⁽¹⁾			0.17	85	100	175	500			4	6 - 9
W01@3'	9/1/2015	3	0.002	<0.002	0.037	0.433	11.6	210	<200	0.260	8.03
E01@3'	9/1/2015	3	<0.002	<0.002	<0.002	<0.002	<0.200	<50	<200	0.268	7.78
N01@3	9/1/2015	3	<0.002	<0.002	<0.002	<0.002	<0.200	<50	<200	0.172	7.81
S01@3'	9/10/2015	3	<0.002	<0.002	<0.002	<0.002	<0.200	<50	<200	0.185	8.03

Notes:

1. Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective February 1, 2014.

COGCC = Colorado Oil and Gas Conservation Commission

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

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram.

bgs = Below ground surface.

mmhos/cm = Millimhos per centimeter

BOLD= Analytical result is in exceedance of COGCC Table 910-1 soil standards.

**TABLE 2
ST. VRAIN ASSOCIATION #1
GROUNDWATER SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP**

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water (ft bgs)
COGCC Table 910-1 Groundwater Standard (µg/L) ⁽¹⁾		5	560	700	1,400	
GW01	9/1/2015	112	19.0	10.0	285	~4

Notes:

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

COGCC = Colorado Oil and Gas Conservation Commission

µg/L = Micrograms per liter

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

ft bgs = Feet below ground surface

BOLD= Analytical result is in exceedance of COGCC groundwater standards.

LABORATORY ANALYTICAL REPORTS

September 02, 2015

Tasman Geosciences

Christine Wasko

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - St. Vrain Association #1

Project Number - [none]

Attached are your analytical results for KMG - St. Vrain Association #1 received by Origins Laboratory, Inc. September 01, 2015. This project is associated with Origins project number X509013-01.

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 - St. Vrain Association #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W01 @ 3'	X509013-01	Soil	September 1, 2015 12:56	09/01/2015 15:40
E01 @ 3'	X509013-02	Soil	September 1, 2015 12:58	09/01/2015 15:40
N01 @ 3'	X509013-03	Soil	September 1, 2015 13:00	09/01/2015 15:40
GW01	X509013-04	Water	September 1, 2015 12:51	09/01/2015 15:40

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

www.originslaboratory.com

page of

ORIGINS
LABORATORY, INC

Client: **Tasman Geosciences**

Address: _____

Telephone Number: **(352)262-9910**

Email Address: **CHRISTINE.WASKO@TASMAN-IG.COM**

Project Manager: **Christine Wasko**

Project Name: **St. Vrain Association #1**

Project Number: _____

Samples Collected By: **Kate Forsmark**

X509013

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				HCl	HNO ₃	Other	Groundwater	Soil	Other		
W0123	9/1/15	1256	2	X	X		X	X	GIBTEX 8260 TPH-DROLO 8015 PH, EC, SAR, (EC > 4.0)	1	
E0123	↓	1258	2	X	X		X	X		2	
N0123	↓	1300	2	X	X		X	X		3	
E1001	↓	1251	3	X	X		X		BTEX 8260	4	
										5	
										6	
										7	
										8	
										9	
										10	

Relinquished By: <i>[Signature]</i>	Date: 9/1/15	Time: 1540	Received By: _____	Date: _____	Time: _____	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 7.1
Relinquished By: _____	Date: _____	Time: _____	Received By: <i>[Signature]</i>	Date: 9/1/15	Time: 1540	

Date Result Needed: _____

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X509013

Client: Tasman
 Client Project ID: St. Vrain Association #1

Checklist Completed by: Jeff Smith
 Date/time completed: 9/1/13

Shipped Via: H/D
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 7 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>PH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
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)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>9/1/13</u> <u>HELD 9/1/13</u>
Additional Comments (if any): <u>Sample Containers for GW01 are marked as preserved with HCL</u>				

⁽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)

9/1/13
 Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

W01 @ 3'
9/1/2015 12:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X509013-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	210	50	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 100 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	11.6	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	0.002	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	0.037	0.002	"	"	"	"	"	
Xylenes, total	0.433	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "

Surrogate: Toluene-d8 107 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.03		pH Units	1	5101015	09/01/2015	09/01/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.260		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

E01 @ 3'
9/1/2015 12:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X509013-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "
Surrogate: Toluene-d8 97.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.78		pH Units	1	5101015	09/01/2015	09/01/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.268		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

N01 @ 3'
9/1/2015 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X509013-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 136 % 59-131 " " " S-07

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "

Surrogate: Toluene-d8 97.7 % 70-130 " " "

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

pH in Soil by EPA 9045D

pH	7.81		pH Units	1	5101015	09/01/2015	09/01/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.172		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

GW01
9/1/2015 12:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X509013-04 (Water)

BTEX by EPA 8260C

Benzene	112	4.0	ug/L	4	5101012	09/01/2015	09/01/2015	
Toluene	19.0	4.0	"	"	"	"	"	
Ethylbenzene	10.0	4.0	"	"	"	"	"	
Xylenes, total	285	4.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

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 5101012 - EPA 5030B (Water)

Blank (5101012-BLK1)

Prepared: 09/01/2015 Analyzed: 09/01/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

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 5101012 - EPA 5030B (Water)

LCS (5101012-BS1)

Prepared: 09/01/2015 Analyzed: 09/01/2015

Benzene	52.7	1.0	ug/L	50.0		105	75-126			
Toluene	51.1	1.0	"	50.0		102	78.7-126			
Ethylbenzene	51.1	1.0	"	50.0		102	80-130			
m,p-Xylene	102	2.0	"	100		102	77.2-133			
o-Xylene	52.8	1.0	"	50.0		106	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.0	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.1	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

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 5101012 - EPA 5030B (Water)

Matrix Spike (5101012-MS1)	Source: X508364-01			Prepared: 09/01/2015 Analyzed: 09/01/2015						
Benzene	79.4	1.0	ug/L	50.0	32.1	94.6	74-130			
Toluene	41.4	1.0	"	50.0	0.8	81.3	73-131			
Ethylbenzene	46.0	1.0	"	50.0	4.1	83.8	76-132			
m,p-Xylene	84.8	2.0	"	100	1.9	82.9	69-139			
o-Xylene	41.9	1.0	"	50.0	ND	83.8	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.1	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

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 5101012 - EPA 5030B (Water)

Matrix Spike Dup (5101012-MSD1)	Source: X508364-01			Prepared: 09/01/2015 Analyzed: 09/01/2015						
Benzene	78.6	1.0	ug/L	50.0	32.1	93.0	74-130	1.06	20	
Toluene	41.7	1.0	"	50.0	0.8	81.9	73-131	0.794	20	
Ethylbenzene	47.7	1.0	"	50.0	4.1	87.1	76-132	3.52	20	
m,p-Xylene	87.3	2.0	"	100	1.9	85.4	69-139	2.88	20	
o-Xylene	43.8	1.0	"	50.0	ND	87.7	74-131	4.57	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

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 5101013 - EPA 5030 (soil)

Blank (5101013-BLK1)

Prepared: 09/01/2015 Analyzed: 09/01/2015

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	71.1		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	62.1		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	65.4		"	62.5		105	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 - St. Vrain Association #1

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 5101013 - EPA 5030 (soil)

LCS (5101013-BS1)

Prepared: 09/01/2015 Analyzed: 09/01/2015

Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.106	0.002	"	0.100		106	74.5-128			
Ethylbenzene	0.100	0.002	"	0.100		99.7	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.5	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	69.9		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	62.6		"	62.5		100	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 - St. Vrain Association #1

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 5101013 - EPA 5030 (soil)

Matrix Spike (5101013-MS1)	Source: X509005-01			Prepared: 09/01/2015 Analyzed: 09/01/2015						
Benzene	0.091	0.002	mg/kg	0.100	ND	91.4	71.8-126			
Toluene	0.086	0.002	"	0.100	ND	86.5	65.1-130			
Ethylbenzene	0.081	0.002	"	0.100	ND	81.5	62.2-130			
m,p-Xylene	0.164	0.004	"	0.200	ND	81.8	46.5-137			
o-Xylene	0.081	0.002	"	0.100	ND	81.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	76.2		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	63.4		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62.5		"	62.5		100	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 - St. Vrain Association #1

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 5101013 - EPA 5030 (soil)

Matrix Spike Dup (5101013-MSD1)	Source: X509005-01			Prepared: 09/01/2015 Analyzed: 09/01/2015						
Benzene	0.086	0.002	mg/kg	0.100	ND	86.2	71.8-126	5.85	11.3	
Toluene	0.081	0.002	"	0.100	ND	81.0	65.1-130	6.54	15.4	
Ethylbenzene	0.079	0.002	"	0.100	ND	79.1	62.2-130	2.96	19.6	
m,p-Xylene	0.155	0.004	"	0.200	ND	77.3	46.5-137	5.67	19.2	
o-Xylene	0.078	0.002	"	0.100	ND	78.4	54.2-134	3.53	17.9	
Surrogate: 1,2-Dichloroethane-d4	74.1		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	61.8		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	63.9		"	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 - St. Vrain Association #1

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 5101014 - EPA 3580

Blank (5101014-BLK1)

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	63		"	50.0		125	59-131			

LCS (5101014-BS1)

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28)	1100	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	880	200	"	1000		87.8	58-124			
Surrogate: o-Terphenyl	60		"	50.0		119	59-131			

Matrix Spike (5101014-MS1)

Source: X509005-01

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28)	910	50	mg/kg		36		53-125			
Residual Range Organics (C28-C36)	770	200	"	1000	81	68.7	47-133			
Surrogate: o-Terphenyl	49		"	50.0		98.9	59-131			

Matrix Spike Dup (5101014-MSD1)

Source: X509005-01

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28)	860	50	mg/kg		36		53-125	5.24	20	
Residual Range Organics (C28-C36)	720	200	"	1000	81	63.9	47-133	6.46	20	
Surrogate: o-Terphenyl	44		"	50.0		89.0	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5101015 - NO PREP										
Duplicate (5101015-DUP1)		Source: X509012-01			Prepared: 09/01/2015 Analyzed: 09/01/2015					
pH	7.92		pH Units		8.00			1.01	25	
Batch 5101016 - NO PREP										
Blank (5101016-BLK1)		Prepared: 09/01/2015 Analyzed: 09/01/2015								
Specific Conductance (EC)	0.00260		mmhos/cm							
Duplicate (5101016-DUP1)		Source: X509012-01			Prepared: 09/01/2015 Analyzed: 09/01/2015					
Specific Conductance (EC)	0.393		mmhos/cm		0.412			4.72	25	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - St. Vrain Association #1

Notes and Definitions

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

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.

September 11, 2015

Tasman Geosciences

Christine Wasko

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - St. Vrain Association #1

Project Number - [none]

Attached are your analytical results for KMG - St. Vrain Association #1 received by Origins Laboratory, Inc. September 10, 2015. This project is associated with Origins project number X509134-01.

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 - St. Vrain Association #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01@3'	X509134-01	Soil	September 10, 2015 12:58	09/10/2015 17:29

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 - St. Vrain Association #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1509134

Client: Tasman
 Client Project ID: St. Vrain Association #1

Checklist Completed by: J. Pellegrini

Shipped Via: HD
 (URS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

Date/time completed: 9/10/15

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

Cooler Number/Temperature: 1 150 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

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)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X	X SH		PH
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⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			X	
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.

J. Pellegrini
 Reviewed by (Project Manager)

9/10/15
 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 - St. Vrain Association #1

S01@3'
9/10/2015 12:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X509134-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5110006	09/10/2015	09/11/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 93.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5110005	09/10/2015	09/10/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
Surrogate: Toluene-d8 95.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.03		pH Units	1	5110015	09/10/2015	09/10/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.185		mmhos/cm	"	5110014	09/10/2015	09/10/2015	
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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 - St. Vrain Association #1

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 5110005 - EPA 5030 (soil)

Blank (5110005-BLK1)

Prepared: 09/10/2015 Analyzed: 09/10/2015

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	64.1		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61.3		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	65.9		"	62.5		105	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 - St. Vrain Association #1

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 5110005 - EPA 5030 (soil)

LCS (5110005-BS1)

Prepared: 09/10/2015 Analyzed: 09/10/2015

Benzene	0.090	0.002	mg/kg	0.100		90.0	77.1-124			
Toluene	0.088	0.002	"	0.100		87.9	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		94.5	66.4-127			
m,p-Xylene	0.188	0.004	"	0.200		94.1	76.6-124			
o-Xylene	0.094	0.002	"	0.100		94.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60.9		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	61.7		"	62.5		98.7	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 - St. Vrain Association #1

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 5I10005 - EPA 5030 (soil)

Matrix Spike (5I10005-MS1)	Source: X509105-03			Prepared: 09/10/2015 Analyzed: 09/10/2015						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130			
Ethylbenzene	0.137	0.002	"	0.100	ND	137	62.2-130			QM-07
m,p-Xylene	0.255	0.004	"	0.200	ND	127	46.5-137			
o-Xylene	0.122	0.002	"	0.100	ND	122	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63.8		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	66.9		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	76.9		"	62.5		123	70-130			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

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 5110005 - EPA 5030 (soil)

Matrix Spike Dup (5110005-MSD1)	Source: X509105-03			Prepared: 09/10/2015 Analyzed: 09/10/2015						
Benzene	0.082	0.002	mg/kg	0.100	ND	82.1	71.8-126	20.7	11.3	QR-03
Toluene	0.072	0.002	"	0.100	ND	72.4	65.1-130	35.0	15.4	QR-03
Ethylbenzene	0.088	0.002	"	0.100	ND	87.8	62.2-130	43.9	19.6	QR-03
m,p-Xylene	0.154	0.004	"	0.200	ND	76.9	46.5-137	49.3	19.2	QR-03
o-Xylene	0.072	0.002	"	0.100	ND	71.7	54.2-134	52.2	17.9	QR-03
Surrogate: 1,2-Dichloroethane-d4	62.4		ug/kg	62.5		99.9	70-130			
Surrogate: Toluene-d8	65.0		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	78.0		"	62.5		125	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 - St. Vrain Association #1

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 5110006 - EPA 3580

Blank (5110006-BLK1)

Prepared: 09/10/2015 Analyzed: 09/10/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	47		"	50.0		93.5	59-131			

LCS (5110006-BS1)

Prepared: 09/10/2015 Analyzed: 09/10/2015

Diesel (C10-C28)	850	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	880	200	"	1000		87.7	58-124			
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			

Matrix Spike (5110006-MS1)

Source: X509105-03

Prepared: 09/10/2015 Analyzed: 09/10/2015

Diesel (C10-C28)	930	50	mg/kg		ND		53-125			
Residual Range Organics (C28-C36)	990	200	"	1000	41	95.3	47-133			
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

Matrix Spike Dup (5110006-MSD1)

Source: X509105-03

Prepared: 09/10/2015 Analyzed: 09/10/2015

Diesel (C10-C28)	840	50	mg/kg		ND		53-125	10.2	20	
Residual Range Organics (C28-C36)	900	200	"	1000	41	85.9	47-133	9.92	20	
Surrogate: o-Terphenyl	46		"	50.0		91.6	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Christine Wasko
 Project Number: [none]
 Project: KMG - St. Vrain Association #1

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5110014 - NO PREP										
Blank (5110014-BLK1)					Prepared: 09/10/2015 Analyzed: 09/10/2015					
Specific Conductance (EC)	0.00470		mmhos/cm							
Duplicate (5110014-DUP1)					Source: X509124-01 Prepared: 09/10/2015 Analyzed: 09/10/2015					
Specific Conductance (EC)	0.102		mmhos/cm		0.109			5.97	25	
Batch 5110015 - NO PREP										
Duplicate (5110015-DUP1)					Source: X509126-01 Prepared: 09/10/2015 Analyzed: 09/10/2015					
pH	8.01		pH Units		7.97			0.501	25	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - St. Vrain Association #1

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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.



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.