

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109



FOR OGCC USE ONLY

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☒ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☐ Other (describe): _____

GENERAL INFORMATION

OGCC Operator Number: 47120		Contact Name and Telephone	
Name of Operator: Kerr-McGee Oil and Gas Onshore, LP		Name: Phillip Hamlin	
Address: 1099 18th Street, Suite 1800		No: 970-336-3500	
City: Denver State: CO Zip: 80202		Fax: 970-336-3656	
API/Facility No: 318916		County: Weld	
Facility Name: Platteville		Facility Number: 63N66W19SWSW	
Well Name: Platteville		Well Number: 1-19	
Location (Qtr, Sec, Twp, Rng, Meridian): SWSW S19 T3N R66W		Latitude: 40.205456 Longitude: -104.826127	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): <u>Condensate and Produced Water</u>	
Site Conditions: Is location within a sensitive area (according to Rule 901e)? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If yes, attach evaluation.	
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): <u>Non-Crop Land</u>	
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: <u>Sand</u>	
Potential receptors (water wells within 1/4 mi, surface waters, etc.): <u>The nearest surface water is located approximately 350' northwest of the site.</u>	
<u>The nearest water well is located approximately 235' northwest of the release area.</u>	
Description of Impact (if previously provided, refer to that form or document):	
Impacted Media (check):	Extent of Impact:
<input checked="" type="checkbox"/> Soils	50' (E-W) x 19' (N-S) x 6' bgs
<input type="checkbox"/> Vegetation	
<input checked="" type="checkbox"/> Groundwater	See attached data
<input type="checkbox"/> Surface water	
How Determined:	
<u>Excavation, soil sampling, and laboratory analysis</u>	
<u>Groundwater sampling and laboratory analysis</u>	

REMEDIALATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document): <p>On July 1, 2015, historical hydrocarbon impacts were discovered during replacement of the produced water sump at the Platteville 63N66W19SWSW production facility. The well was shut in, associated underground infrastructure removed, and excavation activities commenced. Groundwater was encountered in the excavation at approximately 6 feet below ground surface (bgs). An Initial/Supplemental Form 19 was submitted to the COGCC on July 2, 2015. The COGCC has issued Spill Tracking number 442346 for this release.</p>
Describe how source is to be removed: <p>On July 1, 2015, excavation activities commenced and approximately 230 cubic yards of impacted material were excavated and transported to the Kerr-McGee Land Treatment Facility in Weld County, Colorado for disposal. Excavation activities were guided in the field using a photoionization detector (PID) to measure volatile organic compound (VOC) concentrations in soil. Soil samples were collected from the sidewalls of the final extent of the excavation area at approximately 5 feet bgs. Soil samples were submitted to Origins Laboratory in Denver, Colorado for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) by USEPA Method 8260, TPH - diesel range organics and oil range organics (DRO and ORO) by USEPA Method 8015, electrical conductivity (EC), and pH. Laboratory results indicated that constituent concentrations in the soil samples collected from the final lateral extent of the excavation area were below the applicable COGCC Table 910-1 standards. Soils were excavated into the phreatic zone to address potential hydrocarbon impacts that may have been present below the current groundwater table due to seasonal fluctuations. Groundwater was encountered in the excavation at approximately 6 feet bgs. Approximately 80 barrels of impacted groundwater were removed via vacuum truck and transported to a licensed injection facility for disposal. A groundwater sample (GW01) was subsequently collected and submitted for laboratory analysis of BTEX. Analytical results received on July 2, 2015, indicated that the benzene and toluene concentrations in sample GW01 were above the applicable COGCC Table 910-1 groundwater standards. Soil analytical results are summarized in Table 1 and groundwater analytical results are summarized in Table 2. Soil and excavation groundwater sample locations are illustrated on Figure 1 and laboratory analytical reports are included as Attachment A.</p>
Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.: <p>Impacted soil was excavated and transported to the Kerr-McGee Land Treatment Facility in Weld County, Colorado. Impacted groundwater was removed via a vacuum truck and transported to a licensed injection facility for disposal. Additional proposed groundwater remediation measures are described on the following page. The produced water sump was removed during assessment and remediation activities.</p>

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado
(303) 894-2100 Fax 894-2109



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No.: _____

Page 2

REMEDIATION WORKPLAN (CONT.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Temporary monitoring and/or remediation wells will be installed at the site to further assess the extent of groundwater impacts. These wells will be sampled on a quarterly basis and submitted for laboratory analysis of BTEX until concentrations remain below COGCC groundwater standards for four consecutive quarters.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

The excavation has been backfilled with clean soil and graded to match the adjacent topography. Reclamation activities at the site will be compliant with COGCC regulations.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☒ Y ☐ N If yes, describe:

Data indicate that impacted soil has been delineated and removed from the site. Temporary monitoring/remediation wells will be installed to further assess groundwater impacts. Soil and groundwater analytical results are summarized in Tables 1 and 2, respectively. The laboratory analytical reports are included as Attachment A.

Final disposition of E&P waste (land treated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Impacted soil was transported to the Kerr-McGee Land Treatment Facility in Weld County, Colorado for disposal. Impacted groundwater was transported to a licensed injection facility for disposal.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 7/1/2015	Date Site Investigation Completed: _____	Remediation Plan Submitted: _____
Remediation Start Date: 7/1/2015	Anticipated Completion Date: 3/1/2017	Actual Completion Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Phillip Hamlin

Signed: Title: Senior HSE Representative Date: 9/22/15

OGCC Approved: _____ Title: _____ Date: _____

FIGURES



Surface Drainage
↓

NE01 @ 5'
B <0.050 mg/kg
TPH 25.0 mg/kg

E01 @ 5'
B <0.002 mg/kg
TPH <200 mg/kg

SE01 @ 5'
B <0.002 mg/kg
TPH <200 mg/kg

NW01 @ 5'
B <0.050 mg/kg
TPH 32.4 mg/kg

SW01 @ 5'
B 0.016 mg/kg
TPH 3.72 mg/kg

W01 @ 5'
B 0.012 mg/kg
TPH 2.69 mg/kg

GW01
B 4,710 µg/L

X

B – Benzene
TPH – Total Petroleum Hydrocarbons
mg/kg – Milligrams Per Kilogram
µg/L – Micrograms Per Liter

Image Source:
Google Earth 2015

LEGEND

- Approximate Excavation Extent
- Approximate Release Location
- Approximate Soil Sample Location
- Approximate Groundwater Sample Location

TASMAN
GEOSCIENCES

Facility Diagram
Kerr-McGee Oil and Gas Onshore, LP
Platteville 63N66W19SWSW
SWSW S19 T3N R66W
Weld County, CO

DRAWN BY: BRN
DATE: 7/1/2015

FIGURE 1
SITE AND SAMPLE
LOCATION MAP

ANALYTICAL TABLES

TABLE 1
PLATTEVILLE 63N66W19SWSW
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		
NE01@5	7/1/2015	5	<0.050	<0.050	<0.050	<0.050	25.0	<50	<200	0.0219	8.40
NW01@5	7/1/2015	5	<0.050	<0.050	<0.050	<0.050	32.4	<50	<200	0.0369	7.83
SE01@5	7/1/2015	5	<0.002	<0.002	<0.002	<0.002	<0.200	<50	<200	0.0128	7.98
SW01@5	7/1/2015	5	0.016	<0.002	0.003	0.004	3.72	<50	<200	0.0215	7.71
E01@5	7/1/2015	5	<0.002	<0.002	<0.002	<0.002	<0.200	<50	<200	0.00960	7.45
W01@5	7/1/2015	5	0.012	0.015	0.009	0.122	2.69	<50	<200	0.0416	7.87

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
 PLATTEVILLE 63N66W19SW
 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	7/1/2015	4710	711	58.0	411	~6

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.

**ATTACHMENT A
LABORATORY
ANALYTICAL REPORTS**



July 02, 2015

Tasman Geosciences
Christine Wasko
6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Platteville 1-19

Project Number - [none]

Attached are your analytical results for KMG - Platteville 1-19 received by Origins Laboratory, Inc. July 01, 2015. This project is associated with Origins project number X507028-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NE01 @ 5'	X507028-01	Soil	July 1, 2015 13:53	07/01/2015 16:30
NW01 @ 5'	X507028-02	Soil	July 1, 2015 13:55	07/01/2015 16:30
SE01 @ 5'	X507028-03	Soil	July 1, 2015 13:57	07/01/2015 16:30
SW01 @ 5'	X507028-04	Soil	July 1, 2015 14:01	07/01/2015 16:30
E01 @ 5'	X507028-05	Soil	July 1, 2015 14:03	07/01/2015 16:30
W01 @ 5'	X507028-06	Soil	July 1, 2015 14:05	07/01/2015 16:30
GW01	X507028-07	Water	July 1, 2015 14:10	07/01/2015 16:30

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

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

ORIGINS

LABORATORY, INC

X507028

www.originslaboratory.com

page 1 of 1

Client: Tasman Geosciences

Address: 6899 Pecos St

Project Manager: Christine Blake

Project Name: Plateville 1-19

Project Number:

Telephone Number: 912 230 2827

Email Address: Christine@Tasman-Geosciences

Samples Collected By: Brook Nelson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions	
				HCl	HNO ₃	Unpreserved	Groundwater	Soil	2 nd Sample #			Other
NE01Q5'	7/1/15	1353	2	X				X			ENTER 8200 TPA DATA 815 EC pH	1
NW01Q5'	7/1/15	1355	2	X				X				2
SE01Q5'	7/1/15	1357	2	X				X				3
SW01Q5'	7/1/15	1401	2	X				X				4
EO1Q5'	7/1/15	1403	2	X				X				5
W01Q5'	7/1/15	1405	2	X				X				6
												7
GW01	7/1/15	1410	3	X				X			STEY 8260	8
												9
												10
Relinquished By: [Signature]	Date: 7/1/15			Time:		Received By: [Signature]	Date: 7/1/15	Time: 1630	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>	Please see all samples for EC pH > 4.0		
Relinquished By: [Signature]	Date: 7/1/15			Time:		Received By: [Signature]	Date: 7/1/15	Time: 1630				

Date Results Needed: [Blank]

Origins Laboratory, Inc.

BM

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 - Platteville 1-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS07028

Client: Tasman
Client Project ID: Platteville 1-19

Checklist Completed by: Jeff Smith

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

Date/time completed: 7/1/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.8 °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⁾ ?	<input checked="" type="checkbox"/>			
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"/>			PH
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			
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.

Reviewed by (Project Manager)

07-01-15 1346
Date/Time Reviewed

Origins Laboratory, Inc.



Noelle Doyle Mathis, President

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 - Platteville 1-19

NE01 @ 5'
7/1/2015 1:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507028-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G01014	07/01/2015	07/01/2015
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"

Surrogate: o-Terphenyl	80.1 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	25.0	5.00	mg/kg	25	5G01013	07/01/2015	07/01/2015
Benzene	ND	0.050	"	"	"	"	"
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	"
Xylenes, total	ND	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	8.40		pH Units	1	5G01005	07/01/2015	07/01/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0219		mmhos/cm	"	5G01006	07/01/2015	07/01/2015
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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 - Platteville 1-19

NW01 @ 5'
7/1/2015 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507028-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G01014	07/01/2015	07/01/2015
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"

Surrogate: o-Terphenyl	67.0 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	32.4	5.00	mg/kg	25	5G01013	07/01/2015	07/01/2015
Benzene	ND	0.050	"	"	"	"	"
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	"
Xylenes, total	ND	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	97.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	7.83		pH Units	1	5G01005	07/01/2015	07/01/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0369		mmhos/cm	"	5G01006	07/01/2015	07/01/2015
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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 - Platteville 1-19

SE01 @ 5'
7/1/2015 1:57:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507028-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G01014	07/01/2015	07/01/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl	65.4 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5G01013	07/01/2015	07/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	
Surrogate: Toluene-d8	111 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	7.98		pH Units	1	5G01005	07/01/2015	07/01/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0128		mmhos/cm	"	5G01006	07/01/2015	07/01/2015	
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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 - Platteville 1-19

SW01 @ 5'
7/1/2015 2:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507028-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G01014	07/01/2015	07/01/2015
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"

Surrogate: o-Terphenyl	74.6 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	3.72	0.200	mg/kg	1	5G01013	07/01/2015	07/01/2015
Benzene	0.016	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	0.003	0.002	"	"	"	"	"
Xylenes, total	0.004	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"
Surrogate: Toluene-d8	113 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	7.71		pH Units	1	5G01005	07/01/2015	07/01/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0215		mmhos/cm	"	5G01006	07/01/2015	07/01/2015
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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

E01 @ 5'
7/1/2015 2:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507028-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G01014	07/01/2015	07/01/2015
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"

Surrogate: o-Terphenyl	75.6 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5G01013	07/01/2015	07/02/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
Surrogate: Toluene-d8	110 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	7.45		pH Units	1	5G01005	07/01/2015	07/01/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.00960		mmhos/cm	"	5G01006	07/01/2015	07/01/2015
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6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

W01 @ 5'
7/1/2015 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507028-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5G01014	07/01/2015	07/01/2015
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"

Surrogate: o-Terphenyl	71.8 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	2.69	0.200	mg/kg	1	5G01013	07/01/2015	07/02/2015
Benzene	0.012	0.002	"	"	"	"	"
Toluene	0.015	0.002	"	"	"	"	"
Ethylbenzene	0.009	0.002	"	"	"	"	"
Xylenes, total	0.122	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
Surrogate: Toluene-d8	112 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	7.87		pH Units	1	5G01005	07/01/2015	07/01/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0416		mmhos/cm	"	5G01006	07/01/2015	07/01/2015
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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

GW01

7/1/2015 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507028-07 (Water)

BTEX by EPA 8260C

Benzene	4710	50.0	ug/L	50	5F30013	07/01/2015	07/01/2015	
Toluene	711	50.0	"	"	"	"	"	
Ethylbenzene	58.0	50.0	"	"	"	"	"	
Xylenes, total	411	50.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	90.9 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.5 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	88.6-111			"	"	"	

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6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

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 5F30013 - EPA 5030B (Water)

Blank (5F30013-BLK1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.4	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.4	90.9-108			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	88.6-111			

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Project Number: [none]
Project: KMG - Platteville 1-19

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 5F30013 - EPA 5030B (Water)

LCS (5F30013-BS1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Benzene	54.3	1.0	ug/L	50.0		109	75-126			
Toluene	55.5	1.0	"	50.0		111	78.7-126			
Ethylbenzene	54.9	1.0	"	50.0		110	80-130			
m,p-Xylene	110	2.0	"	100		110	77.2-133			
o-Xylene	54.8	1.0	"	50.0		110	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.4	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		101	90.9-108			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	88.6-111			

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Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

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 5F30013 - EPA 5030B (Water)

Matrix Spike (5F30013-MS1)		Source: X506355-01			Prepared: 07/01/2015 Analyzed: 07/01/2015					
Benzene	48.6	1.0	ug/L	50.0	ND	97.3	74-130			
Toluene	49.3	1.0	"	50.0	ND	98.6	73-131			
Ethylbenzene	49.8	1.0	"	50.0	ND	99.6	76-132			
m,p-Xylene	99.2	2.0	"	100	ND	99.2	69-139			
o-Xylene	48.7	1.0	"	50.0	ND	97.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.0	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		100	90.9-108			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		108	88.6-111			

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Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

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 5F30013 - EPA 5030B (Water)

Matrix Spike Dup (5F30013-MSD1)		Source: X506355-01			Prepared: 07/01/2015 Analyzed: 07/01/2015					
Benzene	53.3	1.0	ug/L	50.0	ND	107	74-130	9.16	20	
Toluene	53.8	1.0	"	50.0	ND	108	73-131	8.73	20	
Ethylbenzene	52.9	1.0	"	50.0	ND	106	76-132	5.98	20	
m,p-Xylene	106	2.0	"	100	ND	106	69-139	6.74	20	
o-Xylene	52.4	1.0	"	50.0	ND	105	74-131	7.40	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		101	90.9-108			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	88.6-111			

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Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

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 5G01013 - EPA 5030 (soil)

Blank (5G01013-BLK1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

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	74.0		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	69.5		"	62.5		111	70-130			
Surrogate: 4-Bromofluorobenzene	67.1		"	62.5		107	70-130			

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Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

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 5G01013 - EPA 5030 (soil)

LCS (5G01013-BS1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.103	0.002	"	0.100		103	74.5-128			
Ethylbenzene	0.098	0.002	"	0.100		97.7	66.4-127			
m,p-Xylene	0.193	0.004	"	0.200		96.6	76.6-124			
o-Xylene	0.099	0.002	"	0.100		98.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	72.1		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	65.7		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	67.5		"	62.5		108	70-130			

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Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

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 5G01013 - EPA 5030 (soil)

Matrix Spike (5G01013-MS1)		Source: X507027-01			Prepared: 07/01/2015 Analyzed: 07/01/2015					
Benzene	0.117	0.002	mg/kg	0.100	ND	117	71.8-126			
Toluene	0.113	0.002	"	0.100	ND	113	65.1-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130			
m,p-Xylene	0.206	0.004	"	0.200	ND	103	46.5-137			
o-Xylene	0.100	0.002	"	0.100	ND	99.6	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	75.1		ug/kg	62.5		120	70-130			
Surrogate: Toluene-d8	69.9		"	62.5		112	70-130			
Surrogate: 4-Bromofluorobenzene	65.5		"	62.5		105	70-130			

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Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

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 5G01013 - EPA 5030 (soil)

Matrix Spike Dup (5G01013-MSD1)		Source: X507027-01			Prepared: 07/01/2015 Analyzed: 07/01/2015					
Benzene	0.102	0.002	mg/kg	0.100	ND	102	71.8-126	13.7	11.3	QM-07
Toluene	0.096	0.002	"	0.100	ND	95.8	65.1-130	16.3	15.4	QM-07
Ethylbenzene	0.090	0.002	"	0.100	ND	90.5	62.2-130	11.9	19.6	
m,p-Xylene	0.174	0.004	"	0.200	ND	86.8	46.5-137	17.3	19.2	
o-Xylene	0.088	0.002	"	0.100	ND	88.5	54.2-134	11.8	17.9	
Surrogate: 1,2-Dichloroethane-d4	73.2		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	68.4		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	65.4		"	62.5		105	70-130			

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Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

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 5G01014 - EPA 3580

Blank (5G01014-BLK1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	46		"	50.0		91.9	59-131			

LCS (5G01014-BS1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Diesel (C10-C28)	930	50	mg/kg	1000		92.7	64-121			
Residual Range Organics (C28-C36)	690	200	"	1000		69.2	58-124			
Surrogate: o-Terphenyl	50		"	50.0		99.7	59-131			

Matrix Spike (5G01014-MS1)

Source: X507027-01

Prepared: 07/01/2015 Analyzed: 07/01/2015

Diesel (C10-C28)	850	50	mg/kg	1000	19	83.4	53-125			
Residual Range Organics (C28-C36)	640	200	"	1000	ND	63.5	47-133			
Surrogate: o-Terphenyl	44		"	50.0		87.1	59-131			

Matrix Spike Dup (5G01014-MSD1)

Source: X507027-01

Prepared: 07/01/2015 Analyzed: 07/01/2015

Diesel (C10-C28)	910	50	mg/kg	1000	19	88.8	53-125	6.11	20	
Residual Range Organics (C28-C36)	690	200	"	1000	ND	69.2	47-133	8.52	20	
Surrogate: o-Terphenyl	44		"	50.0		88.1	59-131			

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6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

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 5G01005 - NO PREP										
Duplicate (5G01005-DUP1)	Source: X506374-01				Prepared: 07/01/2015 Analyzed: 07/01/2015					
pH	7.44		pH Units		7.45			0.134	25	
Duplicate (5G01005-DUP2)	Source: X507027-01				Prepared: 07/01/2015 Analyzed: 07/01/2015					
pH	7.54		pH Units		7.62			1.06	25	
Batch 5G01006 - NO PREP										
Blank (5G01006-BLK1)	Prepared: 07/01/2015 Analyzed: 07/01/2015									
Specific Conductance (EC)	0.00260		mmhos/cm							
Blank (5G01006-BLK2)	Prepared: 07/01/2015 Analyzed: 07/01/2015									
Specific Conductance (EC)	0.00260		mmhos/cm							
Duplicate (5G01006-DUP1)	Source: X506374-01				Prepared: 07/01/2015 Analyzed: 07/01/2015					
Specific Conductance (EC)	1.71		mmhos/cm		1.66			3.26	25	
Duplicate (5G01006-DUP2)	Source: X507027-01				Prepared: 07/01/2015 Analyzed: 07/01/2015					
Specific Conductance (EC)	0.338		mmhos/cm		0.363			7.13	25	

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - Platteville 1-19

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.

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