

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

Facility ID 437129
Document 2526847
Date 08/30/2016

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.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

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

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

GENERAL INFORMATION

OGCC Operator Number: 47120		Contact Name and Telephone	
Name of Operator: Kerr-McGee Oil and Gas Onshore, LP		Name: Mike Dinkel	
Address: 1099 18th Street, Suite 1800		No: 720-929-6368	
City: Denver State: CO Zip: 80202		Fax: 720-929-7368	
API/Facility No: 437129		County: Weld	
Facility Name: DFMF #2 STREAR FARMS		Facility Number: 437129	
Well Name:		Well Number:	
Location (QtrQtr, Sec, Twp, Rng, Meridian): SW S23 T2N R67W		Latitude: 40.119722 Longitude: -104.862222	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Unknown	
Site Conditions: Is location within a sensitive area (according to Rule 901e)? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Crop Land and Residential	
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Loamy sand	
Potential receptors (water wells within 1/4 mi, surface waters, etc.): There is no surface water within 1/4 mile of the site property boundary. There nearest water well is located within the northeastern site property boundary.	
Description of Impact (if previously provided, refer to that form or document):	
Impacted Media (check):	Extent of Impact:
<input type="checkbox"/> Soils	
<input type="checkbox"/> Vegetation	
<input checked="" type="checkbox"/> Groundwater	See attached data.
<input type="checkbox"/> Surface water	
How Determined:	
Groundwater sampling and laboratory analysis.	

REMEDIAL WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document): On May 12, 2016, a groundwater sampling event was conducted at the site that included the five (5) monitoring well locations (MW01R, MW02 - MW05.) 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, and TPH - diesel range organics and oil range organics (DRO and ORO) by USEPA Method 8015, as specified in the COGCC 'Review of Form 28 Centralized E&P Waste Management Facility Permit.' Laboratory results indicated that TPH detections were present in MW02, MW04, and MW05. Following the May 12, 2016 groundwater sampling event and subsequent data analysis, a historical data search and records review was conducted for the site, which previously was a turkey farm, that included: 1) above-ground storage tanks (ASTs) and underground storage tanks (USTs) in Weld County; 2) leaking ASTs and USTs in Weld County; 3) COGCC releases in the vicinity of the site (including Section 23 and portions of Sections 14 and 22, T 2N, R 67W); 4) proximal COGIS GW sample data; 5) proximal leaking ASTs / USTs, and; 6) an aerial photo review. The historical data search did not identify a release/source of the TPH detections in groundwater. On June 30, 2016, a second groundwater sampling event was conducted at four (4) monitoring well locations (MW01R, MW02, MW04, and MW05); MW03 was damaged and sample could not be collected. Groundwater samples were submitted to Origins Laboratory for analysis of an expanded analyte list including the full volatile organic compounds (VOC) suite, TPH - GRO by USEPA Method 8260, TPH - DRO and ORO by USEPA Method 8015, and the full semi-volatile organic compound (SVOC) suite by USEPA Method 8270. Laboratory results indicated that trace acetone detections were present in MW01R, MW04 and MW05. No TPH detections were present in the sampled locations during the June 30, 2016 sampling event. On July 28, 2016, a third groundwater sampling event was conducted, which included the 5 monitoring well locations (MW01R, MW02 - MW05.) Groundwater samples were submitted to Origins Laboratory for analysis of the full VOC suite and TPH - GRO by USEPA Method 8260, and TPH - DRO and ORO by USEPA Method 8015. Laboratory results indicated that TPH and 2-butanone detections were present in MW03. No detections were present at the remaining monitoring well locations during the July 28, 2016 sampling event. Analytical results are presented in Table 1. Analytical laboratory reports are provided as Attachment A.
Describe how source is to be removed: The source location and extent of groundwater impacts at the site are undetermined. Proposed monitoring activities are presented on the following page.
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.: The source and extent of groundwater impacts are undetermined. Additional proposed groundwater monitoring activities are described on the following page.



REMEDIATION WORKPLAN (CONT.)

OGCC Employee: _____

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

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

Quarterly monitoring will be conducted at the five (5) monitoring well locations (MW01R, MW02 - MW05) to assess site groundwater conditions. Groundwater samples will be submitted for laboratory analysis of the full VOC suite and TPH - GRO by USEPA Method 8260, and TPH - DRO and ORO by USEPA Method 8015. Results of groundwater monitoring events will be presented to the COGCC on a quarterly basis.

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.

No excavations or ground disturbances occurred as part of the groundwater monitoring program. When decommissioned, reclamation activities at the facility 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:

Laboratory analytical data indicate detections of TPH and VOCs are present at the site. Analytical results are presented in Table 1. Monitoring well locations and groundwater contours are presented on Figure 1. Analytical laboratory reports are presented as Attachment A and monitoring well boring logs are presented as Attachment B.

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

Not applicable.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 5/12/2016	Date Site Investigation Completed: TBD	Remediation Plan Submitted: _____
Remediation Start Date: _____	Anticipated Completion Date: _____	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: Mike Dinkel

Signed: _____ Title: Staff HSE Representative Date: _____

OGCC Approved: _____ Title: _____ Date: _____

FIGURE



DATE:	August 9, 2016
DESIGNED BY:	M. Jahn
DRAWN BY:	Z. Mahaffey



Kerr-McGee Oil and Gas Onshore, LP
DFMF #2 - Strear Farms
SW, Section 23, Township 2 North, Range 67 West
Weld County, Colorado

Monitoring Well Location and
Groundwater Elevation Contour Map
(July 28, 2016)

FIGURE
1

TABLE

TABLE 1
DFMF #2 - STREAR FARMS
GROUNDWATER SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Gasoline Range Hydrocarbons (µg/L)	Diesel Range Hydrocarbons (mg/L)	Residual Range Organics (mg/L)	Acetone (µg/L)	2-Butanone (µg/L)	Depth To Water (ft. BTOC)
COGCC Standards for groundwater (µg/L) ⁽¹⁾		5	560	700	1,400	-	-	-	-	-	-
MW01R	05/12/16	<1.0	<1.0	<1.0	<1.0	<100	<5.0	<10	NS	NS	12.79
MW01R	06/30/16	<1.00	<1.00	<1.00	<2.00	<100	<5.00	<20.0	11.0	<5.00	11.94
MW01R	07/28/16	<1.00	<1.00	<1.00	<2.00	<100	<5.00	<10.0	<8.00	<5.00	11.87
MW02	05/12/16	<1.0	<1.0	<1.0	<1.0	<100	22	<10	NS	NS	12.85
MW02	06/30/16	<1.00	<1.00	<1.00	<2.00	<100	<5.00	<20.0	<8.00	<5.00	11.91
MW02	07/28/16	<1.00	<1.00	<1.00	<2.00	<100	<5.00	<10.0	<8.00	<5.00	11.79
MW03	05/12/16	<1.0	<1.0	<1.0	<1.0	<100	<5.0	<10	NS	NS	NM
MW03	06/30/16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
MW03	07/28/16	<1.00	<1.00	<1.00	<2.00	<100	15.1	<10.0	<8.00	5.65	13.31
MW04	05/12/16	<4.0	<4.0	<4.0	<4.0	<400	9.8	<10	NS	NS	10.37
MW04	06/30/16	<1.00	<1.00	<1.00	<2.00	<100	<5.00	<20.0	11.0	<5.00	9.74
MW04	07/28/16	<1.00	<1.00	<1.00	<2.00	<100	<5.00	<10.0	<8.00	<5.00	10.26
MW05	05/12/16	<1.0	<1.0	<1.0	<1.0	102	<5.0	<10	NS	NS	9.68
MW05	06/30/16	<1.00	<1.00	<1.00	<2.00	<100	<5.00	<20.0	8.34	<5.00	9.31
MW05	07/28/16	<1.00	<1.00	<1.00	<2.00	<100	<5.00	<10.0	<8.00	<5.00	9.99

Notes:

1. Standards for groundwater are taken from 2 CCR 404-1, Table 910-1, effective January 30, 2015.

COGCC = Colorado Oil and Gas Conservation Commission

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

µg/L = Micrograms per liter.

mg/L = Milligrams per liter.

ft. BTOC = Feet below top of casing.

NM = Not measured.

NS = Not sampled.

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

Samples collected on 6/30/2016 in response to elevated TPH values observed during 5/12/2016 sampling event; analyte list included VOC, SVOC, and TPH.

ATTACHMENT A
LABORATORY ANALYTICAL DATA



May 19, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - DFMF #2

Project Number - AFE.2107112.CON

Attached are your analytical results for KMG - DFMF #2 received by Origins Laboratory, Inc. May 12, 2016. This project is associated with Origins project number X605175-01.

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

Bob Cornez

Project Number: AFE.2107112.CON

Project: KMG - DFMF #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R-05-12-16	X605175-01	Water	May 12, 2016 14:55	05/12/2016 18:15
MW02-05-12-16	X605175-02	Water	May 12, 2016 15:23	05/12/2016 18:15
MW03-05-12-16	X605175-03	Water	May 12, 2016 16:45	05/12/2016 18:15
MW04-05-12-16	X605175-04	Water	May 12, 2016 16:00	05/12/2016 18:15
MW05-05-12-16	X605175-05	Water	May 12, 2016 16:30	05/12/2016 18:15

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

www.originslaboratory.com

page of

ORIGINS LABORATORY, INC

XU05175

Client: Tasman Geosciences
Address: 6899 Pecos St. Unit C
Denver, CO, 80211
Telephone Number: 970-456-7734
Email Address: rcornez@tasman-geo.com

Project Manager: Robert Cornez
Project Name: DFMF #2
Project Number: AFE.2107112.CON
Samples Collected By: Jacob Whar, Denver

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		
MW01R-05-12-16	5-12-16	1455	6	X				X				6899 Pecos St. Unit C Denver, CO 80211	1
MW02-05-12-16	5-12-16	1523	6	X				X					2
MW03-05-12-16	5-12-16	1645	6	X				X					3
MW04-05-12-16	5-12-16	1600	6	X				X					4
MW05-05-12-16	5-12-16	1630	6	X				X					5
													6
													7
													8
													9
													10

Relinquished By: [Signature] Date: 05-12-16 Time: 1545
Relinquished By: [Signature] Date: 5/12/16 Time: 1815

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Date Results Needed

Temp Received: 16.1

Origins Laboratory, Inc.

Jefe Pellegrini

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFME #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X605175

Client: Tasman

Client Project ID: KMG - DFME # 2

Checklist Completed by: Jeff Smith

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

Date/time completed: 5/16/12

Airbill #: NA

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

Cooler Number/Temperature: 1 / 16.1 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: TWB

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"/>		
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"/>			<u>HCL</u>
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)

Date/Time Reviewed

Origins Laboratory, Inc.

Jeff Pellegrini

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW01R-05-12-16
5/12/2016 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X605175-01 (Water)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	5.0	mg/L	1	B6E1703	05/17/2016	05/17/2016	U
Residual Range Organics (C28-C40)	ND	10	"	"	"	"	"	U

Surrogate: o-Terphenyl	63.2 %	54-117			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6E1601	05/16/2016	05/16/2016	U
Benzene	ND	1.0	"	"	"	"	"	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.2 %	85.9-113			"	"	"	
Surrogate: Toluene-d8	101 %	89-110			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	92.9-107			"	"	"	

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW02-05-12-16

5/12/2016 3:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X605175-02 (Water)

DRO/RRO by EPA8015C

Diesel (C10-C28)	22	5.0	mg/L	1	B6E1703	05/17/2016	05/17/2016	
Residual Range Organics (C28-C40)	ND	10	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.8 % 54-117 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6E1601	05/16/2016	05/16/2016	U
Benzene	ND	1.0	"	"	"	"	"	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 85.9-113 " " "
Surrogate: Toluene-d8 99.8 % 89-110 " " "
Surrogate: 4-Bromofluorobenzene 98.5 % 92.9-107 " " "

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW03-05-12-16

5/12/2016 4:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X605175-03 (Water)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	5.0	mg/L	1	B6E1703	05/17/2016	05/17/2016	U
Residual Range Organics (C28-C40)	ND	10	"	"	"	"	"	U

Surrogate: o-Terphenyl 72.3 % 54-117 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6E1601	05/16/2016	05/16/2016	U
Benzene	ND	1.0	"	"	"	"	"	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 85.9-113 " " "
Surrogate: Toluene-d8 101 % 89-110 " " "
Surrogate: 4-Bromofluorobenzene 97.1 % 92.9-107 " " "

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW04-05-12-16

5/12/2016 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X605175-04 (Water)

DRO/RRO by EPA8015C

Diesel (C10-C28)	9.8	5.0	mg/L	1	B6E1703	05/17/2016	05/18/2016	
Residual Range Organics (C28-C40)	ND	10	"	"	"	"	"	U

Surrogate: o-Terphenyl 52.4 % 54-117 " " " S-DUP

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	400	ug/L	4	B6E1601	05/16/2016	05/16/2016	U
Benzene	ND	4.0	"	"	"	"	"	U
Toluene	ND	4.0	"	"	"	"	"	U
Ethylbenzene	ND	4.0	"	"	"	"	"	U
Xylenes, total	ND	4.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 85.9-113
Surrogate: Toluene-d8 100 % 89-110
Surrogate: 4-Bromofluorobenzene 102 % 92.9-107

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW05-05-12-16

5/12/2016 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X605175-05 (Water)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	5.0	mg/L	1	B6E1703	05/17/2016	05/18/2016	U
Residual Range Organics (C28-C40)	ND	10	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.6 % 54-117 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	102	100	ug/L	1	B6E1601	05/16/2016	05/16/2016	
Benzene	ND	1.0	"	"	"	"	"	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.2 % 85.9-113 " " "

Surrogate: Toluene-d8 99.5 % 89-110 " " "

Surrogate: 4-Bromofluorobenzene 103 % 92.9-107 " " "

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6E1601 - EPA 5030B (Water)

Blank (B6E1601-BLK1)

Prepared: 05/16/2016 Analyzed: 05/16/2016

Gasoline Range Hydrocarbons	ND	100	ug/L							U
Benzene	ND	1.0	"							U
Toluene	ND	1.0	"							U
Ethylbenzene	ND	1.0	"							U
Xylenes, total	ND	1.0	"							U
Surrogate: 1,2-Dichloroethane-d4	70.3		"	62.5		112	85.9-113			
Surrogate: Toluene-d8	62.8		"	62.5		100	89-110			
Surrogate: 4-Bromofluorobenzene	64.6		"	62.5		103	92.9-107			

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.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6E1601 - EPA 5030B (Water)

LCS (B6E1601-BS1)

Prepared: 05/16/2016 Analyzed: 05/16/2016

Benzene	47.0	1.0	ug/L	50.0		94.0	80-120			
Toluene	45.6	1.0	"	50.0		91.3	80-122			
Ethylbenzene	46.4	1.0	"	50.0		92.8	77-129			
m,p-Xylene	94.9	2.0	"	100		94.9	78.6-126			
o-Xylene	45.4	1.0	"	50.0		90.8	80-121			
Surrogate: 1,2-Dichloroethane-d4	67.9		"	62.5		109	85.9-113			
Surrogate: Toluene-d8	61.0		"	62.5		97.6	89-110			
Surrogate: 4-Bromofluorobenzene	61.4		"	62.5		98.2	92.9-107			

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6E1601 - EPA 5030B (Water)

Matrix Spike (B6E1601-MS1)		Source: X605174-01			Prepared: 05/16/2016 Analyzed: 05/16/2016					
Benzene	49.3	1.0	ug/L	50.0	0.2	98.2	75.3-128			
Toluene	49.7	1.0	"	50.0	ND	99.3	74.2-132			
Ethylbenzene	52.1	1.0	"	50.0	ND	104	71.5-138			
m,p-Xylene	106	2.0	"	100	ND	106	70-136			
o-Xylene	50.0	1.0	"	50.0	ND	100	77.2-127			
Surrogate: 1,2-Dichloroethane-d4	63.1		"	62.5		101	85.9-113			
Surrogate: Toluene-d8	63.1		"	62.5		101	89-110			
Surrogate: 4-Bromofluorobenzene	62.2		"	62.5		99.5	92.9-107			

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6E1601 - EPA 5030B (Water)

Matrix Spike Dup (B6E1601-MSD1)		Source: X605174-01			Prepared: 05/16/2016 Analyzed: 05/16/2016					
Benzene	51.0	1.0	ug/L	50.0	0.2	102	75.3-128	3.47	20	
Toluene	50.0	1.0	"	50.0	ND	99.9	74.2-132	0.602	20	
Ethylbenzene	51.9	1.0	"	50.0	ND	104	71.5-138	0.404	20	
m,p-Xylene	106	2.0	"	100	ND	106	70-136	0.491	20	
o-Xylene	50.3	1.0	"	50.0	ND	101	77.2-127	0.678	20	
Surrogate: 1,2-Dichloroethane-d4	65.5		"	62.5		105	85.9-113			
Surrogate: Toluene-d8	62.0		"	62.5		99.3	89-110			
Surrogate: 4-Bromofluorobenzene	60.8		"	62.5		97.3	92.9-107			

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

Bob Cornez
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B6E1703 - EPA 3511 Mod.

Blank (B6E1703-BLK1)

Prepared: 05/17/2016 Analyzed: 05/17/2016

Diesel (C10-C28)	ND	5.0	mg/L							U
Residual Range Organics (C28-C40)	ND	10	"							U
Surrogate: o-Terphenyl	4.7		"	5.00		95.0	54-117			

LCS (B6E1703-BS1)

Prepared: 05/17/2016 Analyzed: 05/17/2016

Diesel (C10-C28)	89	5.0	mg/L	100		89.4	61-120			
Residual Range Organics (C28-C40)	120	10	"	100		117	66-113			QM-11
Surrogate: o-Terphenyl	4.4		"	5.00		88.4	54-117			

Matrix Spike (B6E1703-MS1)

Source: X605173-01

Prepared: 05/17/2016 Analyzed: 05/17/2016

Diesel (C10-C28)	77	5.0	mg/L	100	ND	76.9	54-126			
Residual Range Organics (C28-C40)	85	10	"	100	ND	84.8	50-128			
Surrogate: o-Terphenyl	3.5		"	5.00		70.0	54-117			

Matrix Spike Dup (B6E1703-MSD1)

Source: X605173-01

Prepared: 05/17/2016 Analyzed: 05/17/2016

Diesel (C10-C28)	91	5.0	mg/L	100	ND	91.0	54-126	16.8	20	
Residual Range Organics (C28-C40)	100	10	"	100	ND	105	50-128	21.0	20	QR-02
Surrogate: o-Terphenyl	4.2		"	5.00		83.3	54-117			

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

Bob Cornez

Project Number: AFE.2107112.CON

Project: KMG - DFMF #2

Notes and Definitions

U Sample is Non-Detect.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

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.

QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



July 07, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - DFMF #2

Project Number - [none]

Attached are your analytical results for KMG - DFMF #2 received by Origins Laboratory, Inc. June 30, 2016. This project is associated with Origins project number X606374-01.

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

Bob Cornez

Project Number: [none]

Project: KMG - DFMF #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R-06/30/16	X606374-01	Water	June 30, 2016 13:35	06/30/2016 17:00
MW02-06/30/16	X606374-02	Water	June 30, 2016 12:49	06/30/2016 17:00
MW04-06/30/16	X606374-03	Water	June 30, 2016 14:20	06/30/2016 17:00
MW05-06/30/16	X606374-04	Water	June 30, 2016 15:37	06/30/2016 17:00

Per the email from Bob on 07/01/16, the samples IDs have all been changed from starting with BH to MW.

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

www.originslaboratory.com

page ☐ of ☐



X606374

ORIGINS
LABORATORY, INC

Project Manager: **Bob Cornez**
Project Name: **DFMF #2**
Project Number:
Samples Collected By: **Kate Ferrell**

Client: **Tasman Geosciences**
Address:
Telephone Number: **(352) 262-9910**
Email Address: **NOELLE@Tasman-geo.com**

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
BTHR-06/30/14	6/30/14	1335	8	XX	XX	XX	XX	XX				Full 8240 VOC	1
BTHR-06/30/14	6/30/14	1249	8	XX	XX	XX	XX	XX				Full 8720 SVOC	2
BTH1-06/30/14	6/30/14	1420	8	XX	XX	XX	XX	XX				TPH DOBODOLGROBOS	3
BTH5-06/30/14	6/30/14	1537	8	XX	XX	XX	XX	XX					4
													5
													6
													7
													8
													9
													10
Relinquished By: 	Date: 6/30/14	Time: 1645										Time: 1700	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"/>
Relinquished By: 	Date:	Time:										Time: 1700	

Relinquished By: **[Signature]** Date: **6/30/14** Time: **1645**
Relinquished By: **[Signature]** Date: **6/30/14** Time: **1700**
Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Bob Cornez
Project Number: [none]
Project: KMG - DFME #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X606374

Client: Tasman

Client Project ID: DFME #2

Checklist Completed by: Jefe Smith

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

Date/time completed: 6/30/16

Airbill #: NA

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

Cooler Number/Temperature: 1 5.1 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 1003

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⁾ ?	1			
Was adequate sample volume provided ⁽¹⁾ ?	7			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		7		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	1			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	7			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	7			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	7			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		1		
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			4cc
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)

Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW01R-06/30/16
6/30/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-01 (Water)

GRO/TVPH by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6F3013	06/30/2016	07/01/2016	Ua
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	06/30/2016	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"	

SVOC by 3510C/8270D

1,2,4-Trichlorobenzene	ND	9.35	ug/L	1	1578806	07/05/2016	07/05/2016	U
1,2-Dichlorobenzene	ND	9.35	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	9.35	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	9.35	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	9.35	"	"	"	"	"	U
1,4-Dioxane	ND	9.35	"	"	"	"	"	U
1-Methylnaphthalene	ND	0.935	"	"	"	"	"	U
2,4,6-Trichlorophenol	ND	9.35	"	"	"	"	"	U
2,4-Dichlorophenol	ND	9.35	"	"	"	"	"	U
2,4-Dimethylphenol	ND	9.35	"	"	"	"	"	U
2,4-Dinitrophenol	ND	18.7	"	"	"	"	"	U
2,4-Dinitrotoluene	ND	9.35	"	"	"	"	"	U
2,6-Dinitrotoluene	ND	9.35	"	"	"	"	"	U
2-Chloronaphthalene	ND	0.935	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW01R-06/30/16
6/30/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-01 (Water)

SVOC by 3510C/8270D

2-Chlorophenol	ND	9.35	ug/L	1	1578806	07/05/2016	07/05/2016	U
2-Methylnaphthalene	ND	0.935	"	"	"	"	"	U
2-Nitrophenol	ND	9.35	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	9.35	"	"	"	"	"	U
4-Bromophenylphenylether	ND	9.35	"	"	"	"	"	U
4-Chlorophenylphenylether	ND	9.35	"	"	"	"	"	U
4-Nitrophenol	ND	9.35	"	"	"	"	"	U
Acenaphthene	ND	0.935	"	"	"	"	"	U
Acenaphthylene	ND	0.935	"	"	"	"	"	U
Anthracene	ND	0.935	"	"	"	"	"	U
Benzidine	ND	9.35	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.935	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.935	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.935	"	"	"	"	"	U
Benzo(ghi)perylene	ND	0.935	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.935	"	"	"	"	"	U
bis(2-Chloro-1-methylethyl)ether	ND	9.35	"	"	"	"	"	U
bis(2-Chloroethoxy)methane	ND	9.35	"	"	"	"	"	U
bis(2-Chloroethyl) ether	ND	9.35	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW01R-06/30/16
6/30/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-01 (Water)

SVOC by 3510C/8270D

bis(2-Ethylhexyl)phthalate	ND	9.35	ug/L	1	1578806	07/05/2016	07/05/2016	U
Butylbenzylphthalate	ND	9.35	"	"	"	"	"	U
Chrysene	ND	0.935	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.935	"	"	"	"	"	U
Diethylphthalate	ND	9.35	"	"	"	"	"	U
Dimethylphthalate	ND	9.35	"	"	"	"	"	U
Di-n-butylphthalate	ND	9.35	"	"	"	"	"	U
Di-n-octylphthalate	ND	9.35	"	"	"	"	"	U
Diphenylamine	ND	9.35	"	"	"	"	"	U
Fluoranthene	ND	0.935	"	"	"	"	"	U
Fluorene	ND	0.935	"	"	"	"	"	U
Hexachlorobenzene	ND	9.35	"	"	"	"	"	U
Hexachlorobutadiene	ND	9.35	"	"	"	"	"	U
Hexachlorocyclopentadiene	ND	9.35	"	"	"	"	"	U
Hexachloroethane	ND	9.35	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.935	"	"	"	"	"	U
Isophorone	ND	9.35	"	"	"	"	"	U
Naphthalene	ND	0.935	"	"	"	"	"	U
Nitrobenzene	ND	9.35	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW01R-06/30/16
6/30/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-01 (Water)

SVOC by 3510C/8270D

N-Methyl-N-nitrosomethylamine	ND	9.35	ug/L	1	1578806	07/05/2016	07/05/2016	U
N-Nitrosodipropylamine	ND	9.35	"	"	"	"	"	U
Pentachlorophenol	ND	9.35	"	"	"	"	"	U
Phenanthrene	ND	0.935	"	"	"	"	"	U
Phenol	ND	9.35	"	"	"	"	"	U
Pyrene	ND	0.935	"	"	"	"	"	U

Surrogate: 2,4,6-Tribromophenol	73 %	29-124			"	"	"	
Surrogate: 2-Fluorobiphenyl	105 %	36-105			"	"	"	
Surrogate: 2-Fluorophenol	47 %	15-79			"	"	"	
Surrogate: Nitrobenzene-d5	87 %	37-110			"	"	"	
Surrogate: Phenol-d5	28 %	15-78			"	"	"	
Surrogate: p-Terphenyl-d14	87 %	36-132			"	"	"	

TPH-Carbon Chain by EPA Method 8015C

Diesel (C10-C28)	ND	5.00	mg/L	1	B6F3007	06/30/2016	07/01/2016	Ua
Residual Range Organics (C28-C40)	ND	20.0	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	64.3 %	54-117			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
---------------------------	----	------	------	---	---------	------------	------------	----

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW01R-06/30/16
6/30/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-01 (Water)

VOC by EPA 8260C

1,1,1-Trichloroethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	Ua
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	Ua
1,2,3-Trichloropropane	ND	5.00	"	"	"	"	"	Ua
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	Ua
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	Ua
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	Ua
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	Ua
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	Ua
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	Ua
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	Ua
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	Ua
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW01R-06/30/16
6/30/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-01 (Water)

VOC by EPA 8260C

2,2-Dichloropropane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
2-Butanone	ND	5.00	"	"	"	"	"	Ua
2-Chlorotoluene	ND	1.00	"	"	"	"	"	Ua
2-Hexanone	ND	5.00	"	"	"	"	"	Ua
4-Chlorotoluene	ND	1.00	"	"	"	"	"	Ua
4-Isopropyltoluene	ND	1.00	"	"	"	"	"	Ua
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	Ua
Acetone	11.0	8.00	"	"	"	"	"	
Benzene	ND	1.00	"	"	"	"	"	Ua
Bromobenzene	ND	1.00	"	"	"	"	"	Ua
Bromochloromethane	ND	1.00	"	"	"	"	"	Ua
Bromodichloromethane	ND	1.00	"	"	"	"	"	Ua
Bromoform	ND	1.00	"	"	"	"	"	Ua
Bromomethane	ND	1.00	"	"	"	"	"	Ua
Carbon disulfide	ND	5.00	"	"	"	"	"	Ua
Carbon tetrachloride	ND	1.00	"	"	"	"	"	Ua
Chlorobenzene	ND	1.00	"	"	"	"	"	Ua
Chloroethane	ND	1.00	"	"	"	"	"	Ua
Chloroform	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW01R-06/30/16
6/30/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-01 (Water)

VOC by EPA 8260C

Chloromethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
Dibromochloromethane	ND	1.00	"	"	"	"	"	Ua
Dibromomethane	ND	1.00	"	"	"	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	"	"	Ua
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	Ua
Iodomethane	ND	10.0	"	"	"	"	"	Ua
Isopropylbenzene	ND	1.00	"	"	"	"	"	Ua
m,p-Xylene	ND	2.00	"	"	"	"	"	Ua
Methylene Chloride	ND	5.00	"	"	"	"	"	Ua
Methyl tert-Butyl Ether	ND	1.00	"	"	"	"	"	Ua
Naphthalene	ND	4.00	"	"	"	"	"	Ua
n-Butylbenzene	ND	1.00	"	"	"	"	"	Ua
n-Propylbenzene	ND	1.00	"	"	"	"	"	Ua
o-Xylene	ND	1.00	"	"	"	"	"	Ua
sec-Butylbenzene	ND	1.00	"	"	"	"	"	Ua
Styrene	ND	1.00	"	"	"	"	"	Ua
tert-Butylbenzene	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW01R-06/30/16
6/30/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-01 (Water)

VOC by EPA 8260C

Tetrachloroethene	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
Toluene	ND	1.00	"	"	"	"	"	Ua
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
Trichloroethene	ND	1.00	"	"	"	"	"	Ua
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	Ua
Vinyl chloride	ND	1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW02-06/30/16

6/30/2016 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-02 (Water)

GRO/TVPH by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
-----------------------------	----	-----	------	---	---------	------------	------------	----

Surrogate: 1,2-Dichloroethane-d4

103 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

98.2 %

70-130

"

"

"

Surrogate: Toluene-d8

95.6 %

70-130

"

"

"

SVOC by 3510C/8270D

1,2,4-Trichlorobenzene	ND	9.35	ug/L	1	1578806	07/06/2016	07/06/2016	U
1,2-Dichlorobenzene	ND	9.35	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	9.35	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	9.35	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	9.35	"	"	"	"	"	U
1,4-Dioxane	ND	9.35	"	"	"	"	"	U
1-Methylnaphthalene	ND	0.935	"	"	"	"	"	U
2,4,6-Trichlorophenol	ND	9.35	"	"	"	"	"	U
2,4-Dichlorophenol	ND	9.35	"	"	"	"	"	U
2,4-Dimethylphenol	ND	9.35	"	"	"	"	"	U
2,4-Dinitrophenol	ND	18.7	"	"	"	"	"	U
2,4-Dinitrotoluene	ND	9.35	"	"	"	"	"	U
2,6-Dinitrotoluene	ND	9.35	"	"	"	"	"	U
2-Chloronaphthalene	ND	0.935	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW02-06/30/16

6/30/2016 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-02 (Water)

SVOC by 3510C/8270D

2-Chlorophenol	ND	9.35	ug/L	1	1578806	07/06/2016	07/06/2016	U
2-Methylnaphthalene	ND	0.935	"	"	"	"	"	U
2-Nitrophenol	ND	9.35	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	9.35	"	"	"	"	"	U
4-Bromophenylphenylether	ND	9.35	"	"	"	"	"	U
4-Chlorophenylphenylether	ND	9.35	"	"	"	"	"	U
4-Nitrophenol	ND	9.35	"	"	"	"	"	U
Acenaphthene	ND	0.935	"	"	"	"	"	U
Acenaphthylene	ND	0.935	"	"	"	"	"	U
Anthracene	ND	0.935	"	"	"	"	"	U
Benzidine	ND	9.35	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.935	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.935	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.935	"	"	"	"	"	U
Benzo(ghi)perylene	ND	0.935	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.935	"	"	"	"	"	U
bis(2-Chloro-1-methylethyl)ether	ND	9.35	"	"	"	"	"	U
bis(2-Chloroethoxy)methane	ND	9.35	"	"	"	"	"	U
bis(2-Chloroethyl) ether	ND	9.35	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW02-06/30/16

6/30/2016 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-02 (Water)

SVOC by 3510C/8270D

bis(2-Ethylhexyl)phthalate	ND	9.35	ug/L	1	1578806	07/06/2016	07/06/2016	U
Butylbenzylphthalate	ND	9.35	"	"	"	"	"	U
Chrysene	ND	0.935	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.935	"	"	"	"	"	U
Diethylphthalate	ND	9.35	"	"	"	"	"	U
Dimethylphthalate	ND	9.35	"	"	"	"	"	U
Di-n-butylphthalate	ND	9.35	"	"	"	"	"	U
Di-n-octylphthalate	ND	9.35	"	"	"	"	"	U
Diphenylamine	ND	9.35	"	"	"	"	"	U
Fluoranthene	ND	0.935	"	"	"	"	"	U
Fluorene	ND	0.935	"	"	"	"	"	U
Hexachlorobenzene	ND	9.35	"	"	"	"	"	U
Hexachlorobutadiene	ND	9.35	"	"	"	"	"	U
Hexachlorocyclopentadiene	ND	9.35	"	"	"	"	"	U
Hexachloroethane	ND	9.35	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.935	"	"	"	"	"	U
Isophorone	ND	9.35	"	"	"	"	"	U
Naphthalene	ND	0.935	"	"	"	"	"	U
Nitrobenzene	ND	9.35	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW02-06/30/16
6/30/2016 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-02 (Water)

SVOC by 3510C/8270D

N-Methyl-N-nitrosomethylamine	ND	9.35	ug/L	1	1578806	07/06/2016	07/06/2016	U
N-Nitrosodipropylamine	ND	9.35	"	"	"	"	"	U
Pentachlorophenol	ND	9.35	"	"	"	"	"	U
Phenanthrene	ND	0.935	"	"	"	"	"	U
Phenol	ND	9.35	"	"	"	"	"	U
Pyrene	ND	0.935	"	"	"	"	"	U

Surrogate: 2,4,6-Tribromophenol	78 %	29-124			"	"	"	
Surrogate: 2-Fluorobiphenyl	87 %	36-105			"	"	"	
Surrogate: 2-Fluorophenol	44 %	15-79			"	"	"	
Surrogate: Nitrobenzene-d5	84 %	37-110			"	"	"	
Surrogate: Phenol-d5	29 %	15-78			"	"	"	
Surrogate: p-Terphenyl-d14	78 %	36-132			"	"	"	

TPH-Carbon Chain by EPA Method 8015C

Diesel (C10-C28)	ND	5.00	mg/L	1	B6F3007	06/30/2016	07/01/2016	Ua
Residual Range Organics (C28-C40)	ND	20.0	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	74.3 %	54-117			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
---------------------------	----	------	------	---	---------	------------	------------	----

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW02-06/30/16

6/30/2016 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-02 (Water)

VOC by EPA 8260C

1,1,1-Trichloroethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	Ua
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	Ua
1,2,3-Trichloropropane	ND	5.00	"	"	"	"	"	Ua
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	Ua
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	Ua
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	Ua
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	Ua
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	Ua
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	Ua
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	Ua
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	Ua
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW02-06/30/16

6/30/2016 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-02 (Water)

VOC by EPA 8260C

2,2-Dichloropropane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
2-Butanone	ND	5.00	"	"	"	"	"	Ua
2-Chlorotoluene	ND	1.00	"	"	"	"	"	Ua
2-Hexanone	ND	5.00	"	"	"	"	"	Ua
4-Chlorotoluene	ND	1.00	"	"	"	"	"	Ua
4-Isopropyltoluene	ND	1.00	"	"	"	"	"	Ua
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	Ua
Acetone	ND	8.00	"	"	"	"	"	Ua
Benzene	ND	1.00	"	"	"	"	"	Ua
Bromobenzene	ND	1.00	"	"	"	"	"	Ua
Bromochloromethane	ND	1.00	"	"	"	"	"	Ua
Bromodichloromethane	ND	1.00	"	"	"	"	"	Ua
Bromoform	ND	1.00	"	"	"	"	"	Ua
Bromomethane	ND	1.00	"	"	"	"	"	Ua
Carbon disulfide	ND	5.00	"	"	"	"	"	Ua
Carbon tetrachloride	ND	1.00	"	"	"	"	"	Ua
Chlorobenzene	ND	1.00	"	"	"	"	"	Ua
Chloroethane	ND	1.00	"	"	"	"	"	Ua
Chloroform	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW02-06/30/16

6/30/2016 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-02 (Water)

VOC by EPA 8260C

Chloromethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
Dibromochloromethane	ND	1.00	"	"	"	"	"	Ua
Dibromomethane	ND	1.00	"	"	"	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	"	"	Ua
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	Ua
Iodomethane	ND	10.0	"	"	"	"	"	Ua
Isopropylbenzene	ND	1.00	"	"	"	"	"	Ua
m,p-Xylene	ND	2.00	"	"	"	"	"	Ua
Methylene Chloride	ND	5.00	"	"	"	"	"	Ua
Methyl tert-Butyl Ether	ND	1.00	"	"	"	"	"	Ua
Naphthalene	ND	4.00	"	"	"	"	"	Ua
n-Butylbenzene	ND	1.00	"	"	"	"	"	Ua
n-Propylbenzene	ND	1.00	"	"	"	"	"	Ua
o-Xylene	ND	1.00	"	"	"	"	"	Ua
sec-Butylbenzene	ND	1.00	"	"	"	"	"	Ua
Styrene	ND	1.00	"	"	"	"	"	Ua
tert-Butylbenzene	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW02-06/30/16

6/30/2016 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-02 (Water)

VOC by EPA 8260C

Tetrachloroethene	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
Toluene	ND	1.00	"	"	"	"	"	Ua
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
Trichloroethene	ND	1.00	"	"	"	"	"	Ua
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	Ua
Vinyl chloride	ND	1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"
Surrogate: Toluene-d8	100 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW04-06/30/16
6/30/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-03 (Water)

GRO/TVPH by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6F3013	06/30/2016	07/01/2016	Ua
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	06/30/2016	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	

SVOC by 3510C/8270D

1,2,4-Trichlorobenzene	ND	9.35	ug/L	1	1578806	07/06/2016	07/06/2016	U
1,2-Dichlorobenzene	ND	9.35	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	9.35	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	9.35	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	9.35	"	"	"	"	"	U
1,4-Dioxane	ND	9.35	"	"	"	"	"	U
1-Methylnaphthalene	ND	0.935	"	"	"	"	"	U
2,4,6-Trichlorophenol	ND	9.35	"	"	"	"	"	U
2,4-Dichlorophenol	ND	9.35	"	"	"	"	"	U
2,4-Dimethylphenol	ND	9.35	"	"	"	"	"	U
2,4-Dinitrophenol	ND	18.7	"	"	"	"	"	U
2,4-Dinitrotoluene	ND	9.35	"	"	"	"	"	U
2,6-Dinitrotoluene	ND	9.35	"	"	"	"	"	U
2-Chloronaphthalene	ND	0.935	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW04-06/30/16
6/30/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-03 (Water)

SVOC by 3510C/8270D

2-Chlorophenol	ND	9.35	ug/L	1	1578806	07/06/2016	07/06/2016	U
2-Methylnaphthalene	ND	0.935	"	"	"	"	"	U
2-Nitrophenol	ND	9.35	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	9.35	"	"	"	"	"	U
4-Bromophenylphenylether	ND	9.35	"	"	"	"	"	U
4-Chlorophenylphenylether	ND	9.35	"	"	"	"	"	U
4-Nitrophenol	ND	9.35	"	"	"	"	"	U
Acenaphthene	ND	0.935	"	"	"	"	"	U
Acenaphthylene	ND	0.935	"	"	"	"	"	U
Anthracene	ND	0.935	"	"	"	"	"	U
Benzidine	ND	9.35	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.935	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.935	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.935	"	"	"	"	"	U
Benzo(ghi)perylene	ND	0.935	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.935	"	"	"	"	"	U
bis(2-Chloro-1-methylethyl)ether	ND	9.35	"	"	"	"	"	U
bis(2-Chloroethoxy)methane	ND	9.35	"	"	"	"	"	U
bis(2-Chloroethyl) ether	ND	9.35	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW04-06/30/16
6/30/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-03 (Water)

SVOC by 3510C/8270D

bis(2-Ethylhexyl)phthalate	ND	9.35	ug/L	1	1578806	07/06/2016	07/06/2016	U
Butylbenzylphthalate	ND	9.35	"	"	"	"	"	U
Chrysene	ND	0.935	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.935	"	"	"	"	"	U
Diethylphthalate	ND	9.35	"	"	"	"	"	U
Dimethylphthalate	ND	9.35	"	"	"	"	"	U
Di-n-butylphthalate	ND	9.35	"	"	"	"	"	U
Di-n-octylphthalate	ND	9.35	"	"	"	"	"	U
Diphenylamine	ND	9.35	"	"	"	"	"	U
Fluoranthene	ND	0.935	"	"	"	"	"	U
Fluorene	ND	0.935	"	"	"	"	"	U
Hexachlorobenzene	ND	9.35	"	"	"	"	"	U
Hexachlorobutadiene	ND	9.35	"	"	"	"	"	U
Hexachlorocyclopentadiene	ND	9.35	"	"	"	"	"	U
Hexachloroethane	ND	9.35	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.935	"	"	"	"	"	U
Isophorone	ND	9.35	"	"	"	"	"	U
Naphthalene	ND	0.935	"	"	"	"	"	U
Nitrobenzene	ND	9.35	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW04-06/30/16
6/30/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-03 (Water)

SVOC by 3510C/8270D

N-Methyl-N-nitrosomethylamine	ND	9.35	ug/L	1	1578806	07/06/2016	07/06/2016	U
N-Nitrosodipropylamine	ND	9.35	"	"	"	"	"	U
Pentachlorophenol	ND	9.35	"	"	"	"	"	U
Phenanthrene	ND	0.935	"	"	"	"	"	U
Phenol	ND	9.35	"	"	"	"	"	U
Pyrene	ND	0.935	"	"	"	"	"	U

Surrogate: 2,4,6-Tribromophenol	32 %	29-124			"	"	"	
Surrogate: 2-Fluorobiphenyl	42 %	36-105			"	"	"	
Surrogate: 2-Fluorophenol	23 %	15-79			"	"	"	
Surrogate: Nitrobenzene-d5	45 %	37-110			"	"	"	
Surrogate: Phenol-d5	22 %	15-78			"	"	"	
Surrogate: p-Terphenyl-d14	29 %	36-132			"	"	"	

TPH-Carbon Chain by EPA Method 8015C

Diesel (C10-C28)	ND	5.00	mg/L	1	B6F3007	06/30/2016	07/01/2016	Ua
Residual Range Organics (C28-C40)	ND	20.0	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	65.6 %	54-117			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
---------------------------	----	------	------	---	---------	------------	------------	----

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW04-06/30/16
6/30/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-03 (Water)

VOC by EPA 8260C

1,1,1-Trichloroethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	Ua
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	Ua
1,2,3-Trichloropropane	ND	5.00	"	"	"	"	"	Ua
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	Ua
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	Ua
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	Ua
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	Ua
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	Ua
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	Ua
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	Ua
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	Ua
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW04-06/30/16
6/30/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-03 (Water)

VOC by EPA 8260C

2,2-Dichloropropane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
2-Butanone	ND	5.00	"	"	"	"	"	Ua
2-Chlorotoluene	ND	1.00	"	"	"	"	"	Ua
2-Hexanone	ND	5.00	"	"	"	"	"	Ua
4-Chlorotoluene	ND	1.00	"	"	"	"	"	Ua
4-Isopropyltoluene	ND	1.00	"	"	"	"	"	Ua
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	Ua
Acetone	11.0	8.00	"	"	"	"	"	
Benzene	ND	1.00	"	"	"	"	"	Ua
Bromobenzene	ND	1.00	"	"	"	"	"	Ua
Bromochloromethane	ND	1.00	"	"	"	"	"	Ua
Bromodichloromethane	ND	1.00	"	"	"	"	"	Ua
Bromoform	ND	1.00	"	"	"	"	"	Ua
Bromomethane	ND	1.00	"	"	"	"	"	Ua
Carbon disulfide	ND	5.00	"	"	"	"	"	Ua
Carbon tetrachloride	ND	1.00	"	"	"	"	"	Ua
Chlorobenzene	ND	1.00	"	"	"	"	"	Ua
Chloroethane	ND	1.00	"	"	"	"	"	Ua
Chloroform	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW04-06/30/16
6/30/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-03 (Water)

VOC by EPA 8260C

Chloromethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
Dibromochloromethane	ND	1.00	"	"	"	"	"	Ua
Dibromomethane	ND	1.00	"	"	"	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	"	"	Ua
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	Ua
Iodomethane	ND	10.0	"	"	"	"	"	Ua
Isopropylbenzene	ND	1.00	"	"	"	"	"	Ua
m,p-Xylene	ND	2.00	"	"	"	"	"	Ua
Methylene Chloride	ND	5.00	"	"	"	"	"	Ua
Methyl tert-Butyl Ether	ND	1.00	"	"	"	"	"	Ua
Naphthalene	ND	4.00	"	"	"	"	"	Ua
n-Butylbenzene	ND	1.00	"	"	"	"	"	Ua
n-Propylbenzene	ND	1.00	"	"	"	"	"	Ua
o-Xylene	ND	1.00	"	"	"	"	"	Ua
sec-Butylbenzene	ND	1.00	"	"	"	"	"	Ua
Styrene	ND	1.00	"	"	"	"	"	Ua
tert-Butylbenzene	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW04-06/30/16
6/30/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-03 (Water)

VOC by EPA 8260C

Tetrachloroethene	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
Toluene	ND	1.00	"	"	"	"	"	Ua
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
Trichloroethene	ND	1.00	"	"	"	"	"	Ua
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	Ua
Vinyl chloride	ND	1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114	"	"	"

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW05-06/30/16
6/30/2016 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-04 (Water)

GRO/TVPH by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6F3013	06/30/2016	07/01/2016	Ua
-----------------------------	----	-----	------	---	---------	------------	------------	----

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	06/30/2016	
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	

SVOC by 3510C/8270D

1,2,4-Trichlorobenzene	ND	9.43	ug/L	1	1578806	07/05/2016	07/05/2016	U
1,2-Dichlorobenzene	ND	9.43	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	9.43	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	9.43	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	9.43	"	"	"	"	"	U
1,4-Dioxane	ND	9.43	"	"	"	"	"	U
1-Methylnaphthalene	ND	0.943	"	"	"	"	"	U
2,4,6-Trichlorophenol	ND	9.43	"	"	"	"	"	U
2,4-Dichlorophenol	ND	9.43	"	"	"	"	"	U
2,4-Dimethylphenol	ND	9.43	"	"	"	"	"	U
2,4-Dinitrophenol	ND	18.9	"	"	"	"	"	U
2,4-Dinitrotoluene	ND	9.43	"	"	"	"	"	U
2,6-Dinitrotoluene	ND	9.43	"	"	"	"	"	U
2-Chloronaphthalene	ND	0.943	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW05-06/30/16
6/30/2016 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-04 (Water)

SVOC by 3510C/8270D

2-Chlorophenol	ND	9.43	ug/L	1	1578806	07/05/2016	07/05/2016	U
2-Methylnaphthalene	ND	0.943	"	"	"	"	"	U
2-Nitrophenol	ND	9.43	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	9.43	"	"	"	"	"	U
4-Bromophenylphenylether	ND	9.43	"	"	"	"	"	U
4-Chlorophenylphenylether	ND	9.43	"	"	"	"	"	U
4-Nitrophenol	ND	9.43	"	"	"	"	"	U
Acenaphthene	ND	0.943	"	"	"	"	"	U
Acenaphthylene	ND	0.943	"	"	"	"	"	U
Anthracene	ND	0.943	"	"	"	"	"	U
Benzidine	ND	9.43	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.943	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.943	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.943	"	"	"	"	"	U
Benzo(ghi)perylene	ND	0.943	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.943	"	"	"	"	"	U
bis(2-Chloro-1-methylethyl)ether	ND	9.43	"	"	"	"	"	U
bis(2-Chloroethoxy)methane	ND	9.43	"	"	"	"	"	U
bis(2-Chloroethyl) ether	ND	9.43	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW05-06/30/16
6/30/2016 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-04 (Water)

SVOC by 3510C/8270D

bis(2-Ethylhexyl)phthalate	ND	9.43	ug/L	1	1578806	07/05/2016	07/05/2016	U
Butylbenzylphthalate	ND	9.43	"	"	"	"	"	U
Chrysene	ND	0.943	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.943	"	"	"	"	"	U
Diethylphthalate	ND	9.43	"	"	"	"	"	U
Dimethylphthalate	ND	9.43	"	"	"	"	"	U
Di-n-butylphthalate	ND	9.43	"	"	"	"	"	U
Di-n-octylphthalate	ND	9.43	"	"	"	"	"	U
Diphenylamine	ND	9.43	"	"	"	"	"	U
Fluoranthene	ND	0.943	"	"	"	"	"	U
Fluorene	ND	0.943	"	"	"	"	"	U
Hexachlorobenzene	ND	9.43	"	"	"	"	"	U
Hexachlorobutadiene	ND	9.43	"	"	"	"	"	U
Hexachlorocyclopentadiene	ND	9.43	"	"	"	"	"	U
Hexachloroethane	ND	9.43	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.943	"	"	"	"	"	U
Isophorone	ND	9.43	"	"	"	"	"	U
Naphthalene	ND	0.943	"	"	"	"	"	U
Nitrobenzene	ND	9.43	"	"	"	"	"	U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW05-06/30/16
6/30/2016 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X606374-04 (Water)

SVOC by 3510C/8270D

N-Methyl-N-nitrosomethylamine	ND	9.43	ug/L	1	1578806	07/05/2016	07/05/2016	U
N-Nitrosodipropylamine	ND	9.43	"	"	"	"	"	U
Pentachlorophenol	ND	9.43	"	"	"	"	"	U
Phenanthrene	ND	0.943	"	"	"	"	"	U
Phenol	ND	9.43	"	"	"	"	"	U
Pyrene	ND	0.943	"	"	"	"	"	U

Surrogate: 2,4,6-Tribromophenol	45 %	29-124			"	"	"	
Surrogate: 2-Fluorobiphenyl	70 %	36-105			"	"	"	
Surrogate: 2-Fluorophenol	31 %	15-79			"	"	"	
Surrogate: Nitrobenzene-d5	64 %	37-110			"	"	"	
Surrogate: Phenol-d5	20 %	15-78			"	"	"	
Surrogate: p-Terphenyl-d14	56 %	36-132			"	"	"	

TPH-Carbon Chain by EPA Method 8015C

Diesel (C10-C28)	ND	5.00	mg/L	1	B6F3007	06/30/2016	07/01/2016	Ua
Residual Range Organics (C28-C40)	ND	20.0	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	69.4 %	54-117			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
---------------------------	----	------	------	---	---------	------------	------------	----

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW05-06/30/16
6/30/2016 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-04 (Water)

VOC by EPA 8260C

1,1,1-Trichloroethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	Ua
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	Ua
1,2,3-Trichloropropane	ND	5.00	"	"	"	"	"	Ua
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	Ua
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	Ua
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	Ua
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	Ua
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	Ua
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	Ua
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	Ua
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	Ua
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW05-06/30/16
6/30/2016 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-04 (Water)

VOC by EPA 8260C

2,2-Dichloropropane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
2-Butanone	ND	5.00	"	"	"	"	"	Ua
2-Chlorotoluene	ND	1.00	"	"	"	"	"	Ua
2-Hexanone	ND	5.00	"	"	"	"	"	Ua
4-Chlorotoluene	ND	1.00	"	"	"	"	"	Ua
4-Isopropyltoluene	ND	1.00	"	"	"	"	"	Ua
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	Ua
Acetone	8.34	8.00	"	"	"	"	"	
Benzene	ND	1.00	"	"	"	"	"	Ua
Bromobenzene	ND	1.00	"	"	"	"	"	Ua
Bromochloromethane	ND	1.00	"	"	"	"	"	Ua
Bromodichloromethane	ND	1.00	"	"	"	"	"	Ua
Bromoform	ND	1.00	"	"	"	"	"	Ua
Bromomethane	ND	1.00	"	"	"	"	"	Ua
Carbon disulfide	ND	5.00	"	"	"	"	"	Ua
Carbon tetrachloride	ND	1.00	"	"	"	"	"	Ua
Chlorobenzene	ND	1.00	"	"	"	"	"	Ua
Chloroethane	ND	1.00	"	"	"	"	"	Ua
Chloroform	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW05-06/30/16
6/30/2016 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-04 (Water)

VOC by EPA 8260C

Chloromethane	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
Dibromochloromethane	ND	1.00	"	"	"	"	"	Ua
Dibromomethane	ND	1.00	"	"	"	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	"	"	Ua
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	Ua
Iodomethane	ND	10.0	"	"	"	"	"	Ua
Isopropylbenzene	ND	1.00	"	"	"	"	"	Ua
m,p-Xylene	ND	2.00	"	"	"	"	"	Ua
Methylene Chloride	ND	5.00	"	"	"	"	"	Ua
Methyl tert-Butyl Ether	ND	1.00	"	"	"	"	"	Ua
Naphthalene	ND	4.00	"	"	"	"	"	Ua
n-Butylbenzene	ND	1.00	"	"	"	"	"	Ua
n-Propylbenzene	ND	1.00	"	"	"	"	"	Ua
o-Xylene	ND	1.00	"	"	"	"	"	Ua
sec-Butylbenzene	ND	1.00	"	"	"	"	"	Ua
Styrene	ND	1.00	"	"	"	"	"	Ua
tert-Butylbenzene	ND	1.00	"	"	"	"	"	Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

MW05-06/30/16
6/30/2016 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X606374-04 (Water)

VOC by EPA 8260C

Tetrachloroethene	ND	1.00	ug/L	1	B6F3013	06/30/2016	06/30/2016	Ua
Toluene	ND	1.00	"	"	"	"	"	Ua
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	Ua
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	Ua
Trichloroethene	ND	1.00	"	"	"	"	"	Ua
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	Ua
Vinyl chloride	ND	1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	99.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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 B6F3013 - EPA 5030B (Water)

Blank (B6F3013-BLK1)

Prepared: 06/30/2016 Analyzed: 06/30/2016

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							Ua
1,1,1-Trichloroethane	ND	1.00	"							Ua
1,1,2,2-Tetrachloroethane	ND	1.00	"							Ua
1,1,2-Trichloroethane	ND	1.00	"							Ua
1,1-Dichloroethane	ND	1.00	"							Ua
1,1-Dichloroethene	ND	1.00	"							Ua
1,1-Dichloropropene	ND	1.00	"							Ua
1,2,3-Trichlorobenzene	ND	5.00	"							Ua
1,2,3-Trichloropropane	ND	5.00	"							Ua
1,2,4-Trichlorobenzene	ND	5.00	"							Ua
1,2,4-Trimethylbenzene	ND	1.00	"							Ua
1,2-Dibromo-3-chloropropane	ND	5.00	"							Ua
1,2-Dibromoethane (EDB)	ND	1.00	"							Ua
1,2-Dichlorobenzene	ND	1.00	"							Ua
1,2-Dichloroethane	ND	1.00	"							Ua
1,2-Dichloropropane	ND	1.00	"							Ua
1,3,5-Trimethylbenzene	ND	1.00	"							Ua
1,3-Dichlorobenzene	ND	1.00	"							Ua
1,3-Dichloropropane	ND	1.00	"							Ua
1,4-Dichlorobenzene	ND	1.00	"							Ua
2,2-Dichloropropane	ND	1.00	"							Ua
2-Butanone	ND	5.00	"							Ua
2-Chlorotoluene	ND	1.00	"							Ua
2-Hexanone	ND	5.00	"							Ua
4-Chlorotoluene	ND	1.00	"							Ua
4-Isopropyltoluene	ND	1.00	"							Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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 B6F3013 - EPA 5030B (Water)

Blank (B6F3013-BLK1)

Prepared: 06/30/2016 Analyzed: 06/30/2016

4-Methyl-2-pentanone	ND	5.00	ug/L							Ua
Acetone	ND	8.00	"							Ua
Benzene	ND	1.00	"							Ua
Bromobenzene	ND	1.00	"							Ua
Bromochloromethane	ND	1.00	"							Ua
Bromodichloromethane	ND	1.00	"							Ua
Bromoform	ND	1.00	"							Ua
Bromomethane	ND	1.00	"							Ua
Carbon disulfide	ND	5.00	"							Ua
Carbon tetrachloride	ND	1.00	"							Ua
Chlorobenzene	ND	1.00	"							Ua
Chloroethane	ND	1.00	"							Ua
Chloroform	ND	1.00	"							Ua
Chloromethane	ND	1.00	"							Ua
cis-1,2-Dichloroethene	ND	1.00	"							Ua
cis-1,3-Dichloropropene	ND	1.00	"							Ua
Dibromochloromethane	ND	1.00	"							Ua
Dibromomethane	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Hexachlorobutadiene	ND	5.00	"							Ua
Iodomethane	ND	10.0	"							Ua
Isopropylbenzene	ND	1.00	"							Ua
m,p-Xylene	ND	2.00	"							Ua
Methylene Chloride	ND	5.00	"							Ua
Methyl tert-Butyl Ether	ND	1.00	"							Ua
Naphthalene	ND	4.00	"							Ua

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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 B6F3013 - EPA 5030B (Water)										
Blank (B6F3013-BLK1)					Prepared: 06/30/2016 Analyzed: 06/30/2016					
n-Butylbenzene	ND	1.00	ug/L							Ua
n-Propylbenzene	ND	1.00	"							Ua
o-Xylene	ND	1.00	"							Ua
sec-Butylbenzene	ND	1.00	"							Ua
Styrene	ND	1.00	"							Ua
tert-Butylbenzene	ND	1.00	"							Ua
Tetrachloroethene	ND	1.00	"							Ua
Toluene	ND	1.00	"							Ua
trans-1,2-Dichloroethene	ND	1.00	"							Ua
trans-1,3-Dichloropropene	ND	1.00	"							Ua
Trichloroethene	ND	1.00	"							Ua
Trichlorofluoromethane	ND	1.00	"							Ua
Vinyl chloride	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	104		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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 B6F3013 - EPA 5030B (Water)

LCS (B6F3013-BS1)

Prepared: 06/30/2016 Analyzed: 06/30/2016

1,1,1,2-Tetrachloroethane	54.7	1.00	ug/L				78.8-128			
1,1,1-Trichloroethane	55.9	1.00	"				82.3-118			
1,1,2,2-Tetrachloroethane	52.3	1.00	"				67.9-119			
1,1,2-Trichloroethane	55.9	1.00	"				75.4-116			
1,1-Dichloroethane	51.4	1.00	"				80-120			
1,1-Dichloroethene	52.4	1.00	"				79.4-118			
1,1-Dichloropropene	52.6	1.00	"				78-120			
1,2,3-Trichlorobenzene	59.2	5.00	"				63.8-134			
1,2,3-Trichloropropane	51.2	5.00	"				63.3-121			
1,2,4-Trichlorobenzene	58.4	5.00	"				70.4-125			
1,2,4-Trimethylbenzene	52.9	1.00	"				73.3-123			
1,2-Dibromo-3-chloropropane	58.6	5.00	"				80-120			
1,2-Dibromoethane (EDB)	58.1	1.00	"				74.7-127			
1,2-Dichlorobenzene	54.1	1.00	"				81.3-116			
1,2-Dichloroethane	52.4	1.00	"				71.1-120			
1,2-Dichloropropane	51.4	1.00	"				80-120			
1,3,5-Trimethylbenzene	53.0	1.00	"				71.9-128			
1,3-Dichlorobenzene	55.5	1.00	"				82.1-117			
1,3-Dichloropropane	54.3	1.00	"				75.1-123			
1,4-Dichlorobenzene	53.9	1.00	"				76.8-119			
2,2-Dichloropropane	54.2	1.00	"				84-120			
2-Butanone	289	5.00	"				64.9-123			
2-Chlorotoluene	49.9	1.00	"				66-133			
2-Hexanone	274	5.00	"				80-120			
4-Chlorotoluene	54.5	1.00	"				73.2-119			
4-Isopropyltoluene	55.0	1.00	"				79.8-120			

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

Bob Cornez
Project Number: [none]
Project: KMG - DFME #2

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 B6F3013 - EPA 5030B (Water)										
LCS (B6F3013-BS1)					Prepared: 06/30/2016 Analyzed: 06/30/2016					
4-Methyl-2-pentanone	296	5.00	ug/L				58.5-122			
Acetone	274	8.00	"				65.4-125			
Benzene	52.3	1.00	"				75.5-116			
Bromobenzene	51.6	1.00	"				70-130			
Bromochloromethane	57.8	1.00	"				80-120			
Bromodichloromethane	55.2	1.00	"				73-123			
Bromoform	57.6	1.00	"				75-128			
Bromomethane	55.2	1.00	"				72-138			
Carbon disulfide	53.1	5.00	"				69-129			
Carbon tetrachloride	56.8	1.00	"				80-124			
Chlorobenzene	55.7	1.00	"				78-121			
Chloroethane	49.2	1.00	"				77-138			
Chloroform	52.9	1.00	"				75-117			
Chloromethane	50.2	1.00	"				72-130			
cis-1,2-Dichloroethene	51.6	1.00	"				78-118			
cis-1,3-Dichloropropene	55.4	1.00	"				73-122			
Dibromochloromethane	58.9	1.00	"				78-119			
Dibromomethane	57.9	1.00	"				79-116			
Ethylbenzene	51.2	1.00	"				78-130			
Hexachlorobutadiene	57.2	5.00	"				72-129			
Iodomethane	57.7	10.0	"				74-121			
Isopropylbenzene	52.4	1.00	"				75-128			
m,p-Xylene	104	2.00	"				75-134			
Methylene Chloride	51.6	5.00	"				80-122			
Methyl tert-Butyl Ether	55.9	1.00	"				72-125			
Naphthalene	60.2	4.00	"				65-128			

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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 B6F3013 - EPA 5030B (Water)

LCS (B6F3013-BS1)

Prepared: 06/30/2016 Analyzed: 06/30/2016

n-Butylbenzene	53.3	1.00	ug/L				69-134			
n-Propylbenzene	51.8	1.00	"				74-132			
o-Xylene	51.4	1.00	"				76-129			
sec-Butylbenzene	52.9	1.00	"				74-128			
Styrene	54.1	1.00	"				74-126			
tert-Butylbenzene	54.7	1.00	"				72-123			
Tetrachloroethene	58.3	1.00	"				78-132			
Toluene	54.5	1.00	"				76-128			
trans-1,2-Dichloroethene	52.2	1.00	"				79-120			
trans-1,3-Dichloropropene	55.4	1.00	"				74-122			
Trichloroethene	54.4	1.00	"				76-125			
Trichlorofluoromethane	51.2	1.00	"				66-149			
Vinyl chloride	56.1	1.00	"				70-137			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.7	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	84-114			

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

Bob Cornez
Project Number: [none]
Project: KMG - DFME #2

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 B6F3013 - EPA 5030B (Water)

Matrix Spike (B6F3013-MS1)		Source: X606362-01			Prepared: 06/30/2016 Analyzed: 06/30/2016					
1,1,1,2-Tetrachloroethane	54.7	1.00	ug/L	50.0	ND	109	82-130			
1,1,1-Trichloroethane	56.4	1.00	"	50.0	ND	113	81-125			
1,1,2,2-Tetrachloroethane	54.3	1.00	"	50.0	ND	109	74-120			
1,1,2-Trichloroethane	57.7	1.00	"	50.0	ND	115	80-118			
1,1-Dichloroethane	52.5	1.00	"	50.0	ND	105	79-120			
1,1-Dichloroethene	52.4	1.00	"	50.0	ND	105	73-130			
1,1-Dichloropropene	53.4	1.00	"	50.0	ND	107	77-124			
1,2,3-Trichlorobenzene	60.5	5.00	"	50.0	0.440	120	55-144			
1,2,3-Trichloropropane	53.0	5.00	"	50.0	ND	106	67-126			
1,2,4-Trichlorobenzene	60.1	5.00	"	50.0	0.350	119	56-141			
1,2,4-Trimethylbenzene	53.4	1.00	"	50.0	0.190	106	62-132			
1,2-Dibromo-3-chloropropane	60.2	5.00	"	50.0	ND	120	56-142			
1,2-Dibromoethane (EDB)	59.6	1.00	"	50.0	ND	119	84-124			
1,2-Dichlorobenzene	54.7	1.00	"	50.0	ND	109	74-124			
1,2-Dichloroethane	53.7	1.00	"	50.0	ND	107	76-120			
1,2-Dichloropropane	51.9	1.00	"	50.0	ND	104	78-117			
1,3,5-Trimethylbenzene	52.8	1.00	"	50.0	ND	106	64-138			
1,3-Dichlorobenzene	56.1	1.00	"	50.0	ND	112	73-126			
1,3-Dichloropropane	55.9	1.00	"	50.0	ND	112	83-120			
1,4-Dichlorobenzene	55.2	1.00	"	50.0	ND	110	64-130			
2,2-Dichloropropane	56.3	1.00	"	50.0	ND	113	77-129			
2-Butanone	304	5.00	"	250	ND	122	66-128			
2-Chlorotoluene	49.9	1.00	"	50.0	ND	99.9	71-130			
2-Hexanone	293	5.00	"	250	ND	117	74-123			
4-Chlorotoluene	52.4	1.00	"	50.0	ND	105	66-128			
4-Isopropyltoluene	54.9	1.00	"	50.0	ND	110	60-140			

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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 B6F3013 - EPA 5030B (Water)										
Matrix Spike (B6F3013-MS1)		Source: X606362-01			Prepared: 06/30/2016 Analyzed: 06/30/2016					
4-Methyl-2-pentanone	312	5.00	ug/L	250	0.690	125	65-125			
Acetone	285	8.00	"	250	ND	114	63-134			
Benzene	53.2	1.00	"	50.0	ND	106	74-130			
Bromobenzene	52.2	1.00	"	50.0	ND	104	70-130			
Bromochloromethane	59.0	1.00	"	50.0	ND	118	80-118			
Bromodichloromethane	56.3	1.00	"	50.0	ND	113	76-122			
Bromoform	60.8	1.00	"	50.0	ND	122	80-128			
Bromomethane	55.1	1.00	"	50.0	ND	110	69-144			
Carbon disulfide	53.8	5.00	"	50.0	ND	108	70-131			
Carbon tetrachloride	57.7	1.00	"	50.0	ND	115	81-130			
Chlorobenzene	56.7	1.00	"	50.0	ND	113	72-128			
Chloroethane	49.4	1.00	"	50.0	ND	98.9	79-140			
Chloroform	53.5	1.00	"	50.0	ND	107	76-118			
Chloromethane	49.9	1.00	"	50.0	ND	99.8	72-128			
cis-1,2-Dichloroethene	52.2	1.00	"	50.0	ND	104	78-120			
cis-1,3-Dichloropropene	56.2	1.00	"	50.0	ND	112	79-120			
Dibromochloromethane	61.0	1.00	"	50.0	ND	122	81-121			QM-07
Dibromomethane	59.0	1.00	"	50.0	ND	118	84-115			QM-07
Ethylbenzene	50.8	1.00	"	50.0	ND	102	76-132			
Hexachlorobutadiene	56.9	5.00	"	50.0	ND	114	70-130			
Iodomethane	58.4	10.0	"	50.0	ND	117	72-127			
Isopropylbenzene	51.6	1.00	"	50.0	ND	103	66-135			
m,p-Xylene	104	2.00	"	100	ND	104	69-139			
Methylene Chloride	52.2	5.00	"	50.0	ND	104	87-118			
Methyl tert-Butyl Ether	58.7	1.00	"	50.0	ND	117	62-138			
Naphthalene	63.0	4.00	"	50.0	0.790	124	59-148			

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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 B6F3013 - EPA 5030B (Water)

Matrix Spike (B6F3013-MS1)		Source: X606362-01			Prepared: 06/30/2016 Analyzed: 06/30/2016					
n-Butylbenzene	53.0	1.00	ug/L	50.0	ND	106	52-146			
n-Propylbenzene	51.4	1.00	"	50.0	ND	103	66-141			
o-Xylene	51.5	1.00	"	50.0	ND	103	74-131			
sec-Butylbenzene	52.6	1.00	"	50.0	0.140	105	63-138			
Styrene	55.1	1.00	"	50.0	ND	110	72-128			
tert-Butylbenzene	54.2	1.00	"	50.0	ND	108	67-129			
Tetrachloroethene	59.6	1.00	"	50.0	ND	119	76-134			
Toluene	55.1	1.00	"	50.0	ND	110	73-131			
trans-1,2-Dichloroethene	52.3	1.00	"	50.0	ND	105	78-123			
trans-1,3-Dichloropropene	56.2	1.00	"	50.0	ND	112	75-125			
Trichloroethene	55.4	1.00	"	50.0	ND	111	73-131			
Trichlorofluoromethane	53.0	1.00	"	50.0	ND	106	83-141			
Vinyl chloride	55.8	1.00	"	50.0	ND	112	73-139			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.1	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	84-114			

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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 B6F3013 - EPA 5030B (Water)										
Matrix Spike Dup (B6F3013-MSD1)	Source: X606362-01				Prepared: 06/30/2016 Analyzed: 06/30/2016					
1,1,1,2-Tetrachloroethane	56.0	1.00	ug/L	50.0	ND	112	82-130	2.37	20	
1,1,1-Trichloroethane	57.8	1.00	"	50.0	ND	116	81-125	2.31	20	
1,1,2,2-Tetrachloroethane	56.9	1.00	"	50.0	ND	114	74-120	4.64	20	
1,1,2-Trichloroethane	62.4	1.00	"	50.0	ND	125	80-118	7.89	20	QM-07
1,1-Dichloroethane	53.5	1.00	"	50.0	ND	107	79-120	1.87	20	
1,1-Dichloroethene	53.9	1.00	"	50.0	ND	108	73-130	2.92	20	
1,1-Dichloropropene	54.2	1.00	"	50.0	ND	108	77-124	1.47	20	
1,2,3-Trichlorobenzene	62.6	5.00	"	50.0	0.440	124	55-144	3.35	20	
1,2,3-Trichloropropane	53.9	5.00	"	50.0	ND	108	67-126	1.78	20	
1,2,4-Trichlorobenzene	62.4	5.00	"	50.0	0.350	124	56-141	3.69	20	
1,2,4-Trimethylbenzene	54.2	1.00	"	50.0	0.190	108	62-132	1.65	20	
1,2-Dibromo-3-chloropropane	64.1	5.00	"	50.0	ND	128	56-142	6.28	20	
1,2-Dibromoethane (EDB)	62.3	1.00	"	50.0	ND	125	84-124	4.44	20	QM-07
1,2-Dichlorobenzene	56.0	1.00	"	50.0	ND	112	74-124	2.40	20	
1,2-Dichloroethane	55.2	1.00	"	50.0	ND	110	76-120	2.66	20	
1,2-Dichloropropane	53.6	1.00	"	50.0	ND	107	78-117	3.18	20	
1,3,5-Trimethylbenzene	53.4	1.00	"	50.0	ND	107	64-138	1.21	20	
1,3-Dichlorobenzene	56.7	1.00	"	50.0	ND	113	73-126	1.13	20	
1,3-Dichloropropane	57.5	1.00	"	50.0	ND	115	83-120	2.79	20	
1,4-Dichlorobenzene	56.0	1.00	"	50.0	ND	112	64-130	1.33	20	
2,2-Dichloropropane	57.2	1.00	"	50.0	ND	114	77-129	1.64	20	
2-Butanone	318	5.00	"	250	ND	127	66-128	4.35	20	
2-Chlorotoluene	50.7	1.00	"	50.0	ND	101	71-130	1.51	20	
2-Hexanone	308	5.00	"	250	ND	123	74-123	5.19	20	
4-Chlorotoluene	55.2	1.00	"	50.0	ND	110	66-128	5.26	20	
4-Isopropyltoluene	55.9	1.00	"	50.0	ND	112	60-140	1.77	20	

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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 B6F3013 - EPA 5030B (Water)										
Matrix Spike Dup (B6F3013-MSD1)		Source: X606362-01			Prepared: 06/30/2016 Analyzed: 06/30/2016					
4-Methyl-2-pentanone	330	5.00	ug/L	250	0.690	132	65-125	5.54	20	QM-07
Acetone	302	8.00	"	250	ND	121	63-134	5.73	20	
Benzene	54.1	1.00	"	50.0	ND	108	74-130	1.64	20	
Bromobenzene	53.1	1.00	"	50.0	ND	106	70-130	1.79	20	
Bromochloromethane	60.9	1.00	"	50.0	ND	122	80-118	3.05	20	QM-07
Bromodichloromethane	57.6	1.00	"	50.0	ND	115	76-122	2.41	20	
Bromoform	62.5	1.00	"	50.0	ND	125	80-128	2.72	20	
Bromomethane	56.1	1.00	"	50.0	ND	112	69-144	1.76	20	
Carbon disulfide	55.4	5.00	"	50.0	ND	111	70-131	2.86	20	
Carbon tetrachloride	58.9	1.00	"	50.0	ND	118	81-130	1.99	20	
Chlorobenzene	58.5	1.00	"	50.0	ND	117	72-128	3.21	20	
Chloroethane	50.2	1.00	"	50.0	ND	100	79-140	1.53	20	
Chloroform	54.8	1.00	"	50.0	ND	110	76-118	2.47	20	
Chloromethane	50.3	1.00	"	50.0	ND	101	72-128	0.758	20	
cis-1,2-Dichloroethene	53.4	1.00	"	50.0	ND	107	78-120	2.20	20	
cis-1,3-Dichloropropene	57.9	1.00	"	50.0	ND	116	79-120	3.03	20	
Dibromochloromethane	63.4	1.00	"	50.0	ND	127	81-121	3.87	20	QM-07
Dibromomethane	61.7	1.00	"	50.0	ND	123	84-115	4.49	20	QM-07
Ethylbenzene	51.6	1.00	"	50.0	ND	103	76-132	1.60	20	
Hexachlorobutadiene	58.7	5.00	"	50.0	ND	117	70-130	3.15	20	
Iodomethane	60.0	10.0	"	50.0	ND	120	72-127	2.60	20	
Isopropylbenzene	52.4	1.00	"	50.0	ND	105	66-135	1.58	20	
m,p-Xylene	105	2.00	"	100	ND	105	69-139	0.823	20	
Methylene Chloride	53.5	5.00	"	50.0	ND	107	87-118	2.38	20	
Methyl tert-Butyl Ether	60.8	1.00	"	50.0	ND	122	62-138	3.45	20	
Naphthalene	65.9	4.00	"	50.0	0.790	130	59-148	4.56	20	

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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 B6F3013 - EPA 5030B (Water)										
Matrix Spike Dup (B6F3013-MSD1)	Source: X606362-01				Prepared: 06/30/2016 Analyzed: 06/30/2016					
n-Butylbenzene	54.4	1.00	ug/L	50.0	ND	109	52-146	2.57	20	
n-Propylbenzene	51.9	1.00	"	50.0	ND	104	66-141	1.03	20	
o-Xylene	52.3	1.00	"	50.0	ND	105	74-131	1.50	20	
sec-Butylbenzene	53.4	1.00	"	50.0	0.140	107	63-138	1.47	20	
Styrene	55.8	1.00	"	50.0	ND	112	72-128	1.21	20	
tert-Butylbenzene	55.2	1.00	"	50.0	ND	110	67-129	1.94	20	
Tetrachloroethene	60.9	1.00	"	50.0	ND	122	76-134	2.18	20	
Toluene	56.7	1.00	"	50.0	ND	113	73-131	2.83	20	
trans-1,2-Dichloroethene	53.0	1.00	"	50.0	ND	106	78-123	1.39	20	
trans-1,3-Dichloropropene	57.9	1.00	"	50.0	ND	116	75-125	3.03	20	
Trichloroethene	56.5	1.00	"	50.0	ND	113	73-131	1.99	20	
Trichlorofluoromethane	53.2	1.00	"	50.0	ND	106	83-141	0.433	20	
Vinyl chloride	55.1	1.00	"	50.0	ND	110	73-139	1.19	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	84-114			

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B6F3007 - EPA 3511 Mod.

Blank (B6F3007-BLK1)

Prepared: 06/30/2016 Analyzed: 06/30/2016

Gasoline (C6-C10)	ND	5.00	mg/L							Ua
Diesel (C10-C28)	ND	5.00	"							Ua
Residual Range Organics (C28-C40)	ND	20.0	"							Ua
TPH - Carbon Chain Total	ND	5.00	"							Ua
Surrogate: o-Terphenyl	4.7		"	5.00		93.6	54-117			

LCS (B6F3007-BS1)

Prepared: 06/30/2016 Analyzed: 06/30/2016

Gasoline (C6-C10)	113	5.00	mg/L	100		113	69-125			
Diesel (C10-C28)	102	5.00	"	100		102	61-120			
Residual Range Organics (C28-C40)	115	20.0	"	100		115	66-113			QM-11
Surrogate: o-Terphenyl	5.2		"	5.00		104	54-117			

Matrix Spike (B6F3007-MS1)

Source: X606332-01

Prepared: 06/30/2016 Analyzed: 06/30/2016

Gasoline (C6-C10)	142	5.00	mg/L	100	34.8	107	70-127			
Diesel (C10-C28)	103	5.00	"	100	7.38	95.2	54-126			
Residual Range Organics (C28-C40)	113	20.0	"	100	1.71	111	50-128			
Surrogate: o-Terphenyl	4.6		"	5.00		91.0	54-117			

Matrix Spike Dup (B6F3007-MSD1)

Source: X606332-01

Prepared: 06/30/2016 Analyzed: 06/30/2016

Gasoline (C6-C10)	126	5.00	mg/L	100	34.8	90.7	70-127	12.2	20	
Diesel (C10-C28)	89.3	5.00	"	100	7.38	81.9	54-126	13.8	20	
Residual Range Organics (C28-C40)	90.5	20.0	"	100	1.71	88.8	50-128	22.2	20	QR-02

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B6F3007 - EPA 3511 Mod.

Matrix Spike Dup (B6F3007-MSD1)

Source: X606332-01

Prepared: 06/30/2016 Analyzed: 06/30/2016

Surrogate: o-Terphenyl	3.6		mg/L	5.00		72.5	54-117			
------------------------	-----	--	------	------	--	------	--------	--	--	--

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.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

SVOC by 3510C/8270D - Quality Control
GEL Laboratories, LLC

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

Batch 1578806 - SW846 3510C

BLANK (1203578744-BLK)

Prepared: 07/05/2016 Analyzed: 07/05/2016

Hexachloroethane	ND	10.0	ug/L				-			U
Dimethylphthalate	ND	10.0	"				-			U
Diphenylamine	ND	10.0	"				-			U
Diethylphthalate	ND	10.0	"				-			U
Fluoranthene	ND	1.00	"				-			U
Dibenzo(a,h)anthracene	ND	1.00	"				-			U
Fluorene	ND	1.00	"				-			U
Hexachlorobenzene	ND	10.0	"				-			U
Hexachlorobutadiene	ND	10.0	"				-			U
Hexachlorocyclopentadiene	ND	10.0	"				-			U
Indeno(1,2,3-cd)pyrene	ND	1.00	"				-			U
Isophorone	ND	10.0	"				-			U
N-Methyl-N-nitrosomethylamine	ND	10.0	"				-			U
N-Nitrosodipropylamine	ND	10.0	"				-			U
Naphthalene	ND	1.00	"				-			U
Pentachlorophenol	ND	10.0	"				-			U
Phenanthrene	ND	1.00	"				-			U
Phenol	ND	10.0	"				-			U
Di-n-octylphthalate	ND	10.0	"				-			U
1,4-Dichlorobenzene	ND	10.0	"				-			U
Nitrobenzene	ND	10.0	"				-			U
2,4,6-Trichlorophenol	ND	10.0	"				-			U
2-Chlorophenol	ND	10.0	"				-			U
2-Chloronaphthalene	ND	1.00	"				-			U
2,6-Dinitrotoluene	ND	10.0	"				-			U
2,4-Dinitrotoluene	ND	10.0	"				-			U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

SVOC by 3510C/8270D - Quality Control
GEL Laboratories, LLC

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

Batch 1578806 - SW846 3510C

BLANK (1203578744-BLK)

Prepared: 07/05/2016 Analyzed: 07/05/2016

2,4-Dinitrophenol	ND	20.0	ug/L				-			U
2-Methylnaphthalene	ND	1.00	"				-			U
2,4-Dichlorophenol	ND	10.0	"				-			U
1,3-Dichlorobenzene	ND	10.0	"				-			U
Pyrene	ND	1.00	"				-			U
1,4-Dioxane	ND	10.0	"				-			U
1,2-Diphenylhydrazine	ND	10.0	"				-			U
1,2,4-Trichlorobenzene	ND	10.0	"				-			U
1,2-Dichlorobenzene	ND	10.0	"				-			U
Di-n-butylphthalate	ND	10.0	"				-			U
1-Methylnaphthalene	ND	1.00	"				-			U
2,4-Dimethylphenol	ND	10.0	"				-			U
bis(2-Chloroethyl) ether	ND	10.0	"				-			U
Chrysene	ND	1.00	"				-			U
Butylbenzylphthalate	ND	10.0	"				-			U
2-Nitrophenol	ND	10.0	"				-			U
bis(2-Ethylhexyl)phthalate	ND	10.0	"				-			U
bis(2-Chloroethoxy)methane	ND	10.0	"				-			U
bis(2-Chloro-1-methylethyl)ether	ND	10.0	"				-			U
Benzo(k)fluoranthene	ND	1.00	"				-			U
Benzo(ghi)perylene	ND	1.00	"				-			U
Benzo(b)fluoranthene	ND	1.00	"				-			U
3,3'-Dichlorobenzidine	ND	10.0	"				-			U
4-Chlorophenylphenylether	ND	10.0	"				-			U
Benzo(a)pyrene	ND	1.00	"				-			U
4-Bromophenylphenylether	ND	10.0	"				-			U

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

SVOC by 3510C/8270D - Quality Control
GEL Laboratories, LLC

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

Batch 1578806 - SW846 3510C

BLANK (1203578744-BLK)

Prepared: 07/05/2016 Analyzed: 07/05/2016

4-Nitrophenol	ND	10.0	ug/L				-			U
Acenaphthene	ND	1.00	"				-			U
Acenaphthylene	ND	1.00	"				-			U
Anthracene	ND	1.00	"				-			U
Benzidine	ND	10.0	"				-			U
Benzo(a)anthracene	ND	1.00	"				-			U
Surrogate: p-Terphenyl-d14	32.6		"	50.0		65	36-132			
Surrogate: Nitrobenzene-d5	29.6		"	50.0		59	37-110			
Surrogate: Phenol-d5	19.8		"	100		20	15-78			
Surrogate: 2-Fluorophenol	30.4		"	100		30	15-79			
Surrogate: 2-Fluorobiphenyl	34.0		"	50.0		68	36-105			
Surrogate: 2,4,6-Tribromophenol	42.3		"	100		42	29-124			

LCS (1203578745-BKS)

Prepared: 07/05/2016 Analyzed: 07/05/2016

Acenaphthylene	44.7	1.00	ug/L	50.0		89	47-106			
4-Bromophenylphenylether	44.5	10.0	"	50.0		89	52-114			
2-Methylnaphthalene	35.3	1.00	"	50.0		71	38-96			
2-Nitrophenol	41.0	10.0	"	50.0		82	45-116			
3,3'-Dichlorobenzidine	48.6	10.0	"	50.0		97	47-122			
4-Chlorophenylphenylether	45.5	10.0	"	50.0		91	52-113			
Benzo(a)anthracene	42.0	1.00	"	50.0		84	54-109			
Acenaphthene	41.7	1.00	"	50.0		83	46-103			
Anthracene	37.7	1.00	"	50.0		75	53-106			
Benzidine	90.0	10.0	"	100		90	15-117			
2-Chlorophenol	40.3	10.0	"	50.0		81	46-105			
1-Methylnaphthalene	39.7	1.00	"	50.0		79	42-100			
Benzo(a)pyrene	42.5	1.00	"	50.0		85	51-110			

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

SVOC by 3510C/8270D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1578806 - SW846 3510C										
LCS (1203578745-BKS)					Prepared: 07/05/2016 Analyzed: 07/05/2016					
4-Nitrophenol	11.7	10.0	ug/L	50.0		23	15-82			
Isophorone	43.9	10.0	"	50.0		88	50-115			
Benzo(b)fluoranthene	44.1	1.00	"	50.0		88	52-115			
1,2-Dichlorobenzene	30.0	10.0	"	50.0		60	34-89			
1,2-Diphenylhydrazine	45.8	10.0	"	50.0		92	43-111			
1,3-Dichlorobenzene	28.3	10.0	"	50.0		57	33-87			
2,4,6-Trichlorophenol	43.3	10.0	"	50.0		87	50-116			
1,4-Dioxane	30.8	10.0	"	50.0		62	32-76			
2-Chloronaphthalene	39.5	1.00	"	50.0		79	40-98			
1,2,4-Trichlorobenzene	33.7	10.0	"	50.0		67	35-88			
2,4-Dichlorophenol	39.4	10.0	"	50.0		79	48-111			
2,4-Dimethylphenol	41.7	10.0	"	50.0		83	40-107			
2,4-Dinitrophenol	20.1	20.0	"	50.0		40	26-126			
2,4-Dinitrotoluene	42.6	10.0	"	50.0		85	52-122			
2,6-Dinitrotoluene	45.7	10.0	"	50.0		91	53-120			
1,4-Dichlorobenzene	28.6	10.0	"	50.0		57	32-89			
Hexachloroethane	28.9	10.0	"	50.0		58	28-89			
Hexachlorocyclopentadiene	26.5	10.0	"	50.0		53	24-75			
Indeno(1,2,3-cd)pyrene	39.8	1.00	"	50.0		80	45-129			
N-Methyl-N-nitrosomethylamine	27.4	10.0	"	50.0		55	30-80			
N-Nitrosodipropylamine	40.5	10.0	"	50.0		81	45-113			
Hexachlorobenzene	44.9	10.0	"	50.0		90	47-113			
Nitrobenzene	42.4	10.0	"	50.0		85	43-114			
Fluorene	41.5	1.00	"	50.0		83	50-107			
Pentachlorophenol	30.8	10.0	"	50.0		62	33-120			
Phenanthrene	38.5	1.00	"	50.0		77	53-106			

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

SVOC by 3510C/8270D - Quality Control
GEL Laboratories, LLC

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

Batch 1578806 - SW846 3510C

LCS (1203578745-BKS)

Prepared: 07/05/2016 Analyzed: 07/05/2016

Phenol	16.9	10.0	ug/L	50.0		34	16-82			
Pyrene	39.2	1.00	"	50.0		78	46-115			
Naphthalene	38.1	1.00	"	50.0		76	38-96			
Di-n-butylphthalate	41.1	10.0	"	50.0		82	55-116			
Benzo(k)fluoranthene	44.5	1.00	"	50.0		89	52-117			
bis(2-Chloro-1-methylethyl)ether	38.5	10.0	"	50.0		77	41-115			
bis(2-Chloroethoxy)methane	44.4	10.0	"	50.0		89	53-116			
bis(2-Chloroethyl) ether	42.1	10.0	"	50.0		84	49-112			
bis(2-Ethylhexyl)phthalate	48.5	10.0	"	50.0		97	51-121			
Hexachlorobutadiene	31.2	10.0	"	50.0		62	29-90			
Chrysene	43.0	1.00	"	50.0		86	50-112			
Benzo(ghi)perylene	40.5	1.00	"	50.0		81	42-124			
Di-n-octylphthalate	52.5	10.0	"	50.0		105	45-129			
Dibenzo(a,h)anthracene	41.5	1.00	"	50.0		83	42-134			
Diethylphthalate	45.4	10.0	"	50.0		91	57-118			
Dimethylphthalate	46.5	10.0	"	50.0		93	60-118			
Diphenylamine	44.3	10.0	"	50.0		89	49-107			
Fluoranthene	34.6	1.00	"	50.0		69	53-112			
Butylbenzylphthalate	44.2	10.0	"	50.0		88	52-120			
Surrogate: 2-Fluorobiphenyl	42.2		"	50.0		84	36-105			
Surrogate: 2-Fluorophenol	49.9		"	100		50	15-79			
Surrogate: 2,4,6-Tribromophenol	71.4		"	100		71	29-124			
Surrogate: Nitrobenzene-d5	38.1		"	50.0		76	37-110			
Surrogate: p-Terphenyl-d14	33.8		"	50.0		68	36-132			
Surrogate: Phenol-d5	30.5		"	100		30	15-78			

LCSD (1203578746-BKSD)

Prepared: 07/05/2016 Analyzed: 07/05/2016

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

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

SVOC by 3510C/8270D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1578806 - SW846 3510C										
LCSD (1203578746-BKSD)					Prepared: 07/05/2016 Analyzed: 07/05/2016					
bis(2-Chloroethoxy)methane	49.4	10.0	ug/L	50.0		99	53-116	11	30	
2,4-Dinitrotoluene	44.9	10.0	"	50.0		90	52-122	5	30	
Benzidine	72.8	10.0	"	100		73	15-117	21	30	
Anthracene	41.4	1.00	"	50.0		83	53-106	9	30	
Acenaphthylene	47.4	1.00	"	50.0		95	47-106	6	30	
Acenaphthene	45.2	1.00	"	50.0		90	46-103	8	30	
4-Nitrophenol	12.0	10.0	"	50.0		24	15-82	3	30	
4-Chlorophenylphenylether	47.9	10.0	"	50.0		96	52-113	5	30	
4-Bromophenylphenylether	48.4	10.0	"	50.0		97	52-114	8	30	
3,3'-Dichlorobenzidine	50.8	10.0	"	50.0		102	47-122	4	30	
2-Nitrophenol	45.6	10.0	"	50.0		91	45-116	11	30	
2-Methylnaphthalene	39.4	1.00	"	50.0		79	38-96	11	30	
2-Chlorophenol	43.5	10.0	"	50.0		87	46-105	8	30	
bis(2-Ethylhexyl)phthalate	55.4	10.0	"	50.0		111	51-121	13	30	
1-Methylnaphthalene	43.9	1.00	"	50.0		88	42-100	10	30	
Pyrene	45.0	1.00	"	50.0		90	46-115	14	30	
1,2,4-Trichlorobenzene	37.7	10.0	"	50.0		75	35-88	11	30	
1,2-Dichlorobenzene	33.4	10.0	"	50.0		67	34-89	11	30	
1,2-Diphenylhydrazine	53.2	10.0	"	50.0		106	43-111	15	30	
1,3-Dichlorobenzene	31.8	10.0	"	50.0		64	33-87	11	30	
2-Chloronaphthalene	42.0	1.00	"	50.0		84	40-98	6	30	
1,4-Dioxane	33.5	10.0	"	50.0		67	32-76	8	30	
2,6-Dinitrotoluene	48.9	10.0	"	50.0		98	53-120	7	30	
2,4,6-Trichlorophenol	45.8	10.0	"	50.0		92	50-116	6	30	
2,4-Dichlorophenol	43.1	10.0	"	50.0		86	48-111	9	30	
2,4-Dimethylphenol	46.8	10.0	"	50.0		94	40-107	11	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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - DFME #2

SVOC by 3510C/8270D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1578806 - SW846 3510C										
LCSD (1203578746-BKSD)					Prepared: 07/05/2016 Analyzed: 07/05/2016					
2,4-Dinitrophenol	21.2	20.0	ug/L	50.0		42	26-126	5	30	
Benzo(b)fluoranthene	48.4	1.00	"	50.0		97	52-115	9	30	
1,4-Dichlorobenzene	32.2	10.0	"	50.0		64	32-89	12	30	
Naphthalene	41.7	1.00	"	50.0		83	38-96	9	30	
Benzo(a)anthracene	45.6	1.00	"	50.0		91	54-109	8	30	
Hexachlorocyclopentadiene	29.0	10.0	"	50.0		58	24-75	9	30	
Hexachloroethane	33.2	10.0	"	50.0		66	28-89	14	30	
Indeno(1,2,3-cd)pyrene	45.3	1.00	"	50.0		91	45-129	13	30	
Isophorone	48.5	10.0	"	50.0		97	50-115	10	30	
Hexachlorobenzene	49.8	10.0	"	50.0		100	47-113	10	30	
N-Nitrosodipropylamine	44.3	10.0	"	50.0		89	45-113	9	30	
Fluorene	44.5	1.00	"	50.0		89	50-107	7	30	
Nitrobenzene	48.0	10.0	"	50.0		96	43-114	12	30	
Pentachlorophenol	34.2	10.0	"	50.0		68	33-120	10	30	
Phenanthrene	42.5	1.00	"	50.0		85	53-106	10	30	
Phenol	18.8	10.0	"	50.0		38	16-82	11	30	
N-Methyl-N-nitrosomethylamine	30.1	10.0	"	50.0		60	30-80	9	30	
Di-n-butylphthalate	45.8	10.0	"	50.0		92	55-116	11	30	
Benzo(ghi)perylene	46.2	1.00	"	50.0		92	42-124	13	30	
Benzo(k)fluoranthene	48.8	1.00	"	50.0		98	52-117	9	30	
bis(2-Chloro-1-methylethyl)ether	42.9	10.0	"	50.0		86	41-115	11	30	
bis(2-Chloroethyl) ether	46.2	10.0	"	50.0		92	49-112	9	30	
Hexachlorobutadiene	36.8	10.0	"	50.0		74	29-90	16	30	
Chrysene	47.4	1.00	"	50.0		95	50-112	10	30	
Benzo(a)pyrene	47.6	1.00	"	50.0		95	51-110	11	30	
Di-n-octylphthalate	59.0	10.0	"	50.0		118	45-129	12	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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - DFMF #2

SVOC by 3510C/8270D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1578806 - SW846 3510C										
LCSD (1203578746-BKSD)					Prepared: 07/05/2016 Analyzed: 07/05/2016					
Dibenzo(a,h)anthracene	46.7	1.00	ug/L	50.0		93	42-134	12	30	
Diethylphthalate	49.1	10.0	"	50.0		98	57-118	8	30	
Dimethylphthalate	51.3	10.0	"	50.0		103	60-118	10	30	
Diphenylamine	49.7	10.0	"	50.0		99	49-107	12	30	
Fluoranthene	37.1	1.00	"	50.0		74	53-112	7	30	
Butylbenzylphthalate	51.4	10.0	"	50.0		103	52-120	15	30	
Surrogate: 2-Fluorophenol	53.8		"	100		54	15-79			
Surrogate: 2-Fluorobiphenyl	43.8		"	50.0		88	36-105			
Surrogate: 2,4,6-Tribromophenol	72.3		"	100		72	29-124			
Surrogate: Nitrobenzene-d5	40.7		"	50.0		81	37-110			
Surrogate: p-Terphenyl-d14	37.8		"	50.0		76	36-132			
Surrogate: Phenol-d5	32.4		"	100		32	15-78			

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

Bob Cornez

Project Number: [none]

Project: KMG - DFMF #2

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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.

QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



August 04, 2016

Tasman Geosciences

Mike Jahn

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - DFMF #2

Project Number - AFE.2107112.CON

Attached are your analytical results for KMG - DFMF #2 received by Origins Laboratory, Inc. July 28, 2016. This project is associated with Origins project number X607307-01.

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

Mike Jahn

Project Number: AFE.2107112.CON

Project: KMG - DFMF #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R - 7/28	X607307-01	Water	July 28, 2016 11:54	07/28/2016 16:30
MW02 - 7/28	X607307-02	Water	July 28, 2016 12:45	07/28/2016 16:30
MW03 - 7/28	X607307-03	Water	July 28, 2016 11:35	07/28/2016 16:30
MW04 - 7/28	X607307-04	Water	July 28, 2016 14:33	07/28/2016 16:30
MW05 - 7/28	X607307-05	Water	July 28, 2016 14:23	07/28/2016 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

www.originslaboratory.com

page 1 of 1

ORIGINS LABORATORY, INC

Client: Anadarko/Tasman

Address: 6899 Pecos St., Denver, Co 80221

Telephone Number: 303.507.8864

Email Address: M.Jahn@OriginsLab.com

Project Manager: Mike Jahn

Project Name: DFMF #2

Project Number: AFE.2107112.CON

Samples Collected By: Tim Biegley, Brandon Lebesch

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface			Other	
MW01R - 7/28	7/28/16	11:52-11:54	8	2	6							X	VOC's (EPA 8160) DPH (DRO 8260) CRO (8260)	1
MW02 - 7/28	7/28/16	12:43-12:45	8	2	6									2
MW03 - 7/28	7/28/16	11:33-11:35	8	2	6									3
MW04 - 7/28	7/28/16	12:58-12:33	8	8	0									4
MW05 - 7/28	7/28/16	2:21-2:23	8	2	6									5
														6
														7
														8
														9
														10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Mike Jahn	7/28/16	4:30	Mike Jahn	7/28/16	16:30	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"/>

Date Results Needed: 7/28/16

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Mike Jahn

Project Number: AFE.2107112.CON

Project: KMG - DFMF #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X607307

Client: Tasman

Client Project ID: DFMF #2

Checklist Completed by: J. H. Smith

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

Date/time completed: 7/29/16

Airbill #: NA

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

Cooler Number/Temperature: 1 15.3 °C 1 °C 1 °C (Describe)

Thermometer ID: TCUB

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCL</u>
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) J. H. Smith

Date/Time Reviewed 7/29/16

Origins Laboratory, Inc.

Jen Pellegrini

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW01R - 7/28

7/28/2016 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc. X607307-01 (Water)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	5.00	mg/L	1	B6G2804	07/29/2016	08/03/2016	U
Residual Range Organics (C28-C40)	ND	10.0	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.7 % 54-117 " " "

GRO/TVPH by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
-----------------------------	----	-----	------	---	---------	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.6 % 70-130 " " "
Surrogate: Toluene-d8 82.3 % 70-130 " " "

VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B6H0207	"	08/02/2016	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW01R - 7/28

7/28/2016 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-01 (Water)

VOC by EPA 8260C

1,2,3-Trichloropropane	ND	5.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	U
2-Butanone	ND	5.00	"	"	"	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	"	"	U
2-Hexanone	ND	5.00	"	"	"	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW01R - 7/28

7/28/2016 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-01 (Water)

VOC by EPA 8260C

Acetone	ND	8.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
Benzene	ND	1.00	"	"	"	"	"	U
Bromobenzene	ND	1.00	"	"	"	"	"	U
Bromochloromethane	ND	1.00	"	"	"	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	"	"	U
Bromoform	ND	1.00	"	"	"	"	"	U
Bromomethane	ND	1.00	"	"	"	"	"	U
Carbon disulfide	ND	5.00	"	"	"	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	"	"	U
Chlorobenzene	ND	1.00	"	"	"	"	"	U
Chloroethane	ND	1.00	"	"	"	"	"	U
Chloroform	ND	1.00	"	"	"	"	"	U
Chloromethane	ND	1.00	"	"	"	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	"	"	U
Dibromomethane	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW01R - 7/28

7/28/2016 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-01 (Water)

VOC by EPA 8260C

Iodomethane	ND	10.0	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
Isopropylbenzene	ND	1.00	"	"	"	"	"	U
m,p-Xylene	ND	2.00	"	"	"	"	"	U
Methylene Chloride	ND	5.00	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	4.00	"	"	"	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	"	"	U
o-Xylene	ND	1.00	"	"	"	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	"	"	U
Styrene	ND	1.00	"	"	"	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	U
Trichloroethene	ND	1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	U
Vinyl chloride	ND	1.00	"	"	"	"	"	U

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

Mike Jahn

Project Number: AFE.2107112.CON

Project: KMG - DFMF #2

MW01R - 7/28

7/28/2016 11:54:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X607307-01 (Water)

VOC by EPA 8260C

Surrogate: 1,2-Dichloroethane-d4	112 %	84-121	B6H02 07	08/02/2016	08/02/2016
Surrogate: Toluene-d8	94.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	84-114	"	"	"

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW02 - 7/28

7/28/2016 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc. X607307-02 (Water)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	5.00	mg/L	1	B6G2804	07/29/2016	08/03/2016	U
Residual Range Organics (C28-C40)	ND	10.0	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.6 % 54-117 " " "

GRO/TVPH by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
-----------------------------	----	-----	------	---	---------	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.8 % 70-130 " " "
Surrogate: Toluene-d8 82.2 % 70-130 " " "

VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B6H0207	"	08/02/2016	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW02 - 7/28

7/28/2016 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc. X607307-02 (Water)

VOC by EPA 8260C

1,2,3-Trichloropropane	ND	5.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	U
2-Butanone	ND	5.00	"	"	"	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	"	"	U
2-Hexanone	ND	5.00	"	"	"	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW02 - 7/28

7/28/2016 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-02 (Water)

VOC by EPA 8260C

Acetone	ND	8.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
Benzene	ND	1.00	"	"	"	"	"	U
Bromobenzene	ND	1.00	"	"	"	"	"	U
Bromochloromethane	ND	1.00	"	"	"	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	"	"	U
Bromoform	ND	1.00	"	"	"	"	"	U
Bromomethane	ND	1.00	"	"	"	"	"	U
Carbon disulfide	ND	5.00	"	"	"	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	"	"	U
Chlorobenzene	ND	1.00	"	"	"	"	"	U
Chloroethane	ND	1.00	"	"	"	"	"	U
Chloroform	ND	1.00	"	"	"	"	"	U
Chloromethane	ND	1.00	"	"	"	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	"	"	U
Dibromomethane	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW02 - 7/28

7/28/2016 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc. X607307-02 (Water)

VOC by EPA 8260C

Iodomethane	ND	10.0	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
Isopropylbenzene	ND	1.00	"	"	"	"	"	U
m,p-Xylene	ND	2.00	"	"	"	"	"	U
Methylene Chloride	ND	5.00	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	4.00	"	"	"	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	"	"	U
o-Xylene	ND	1.00	"	"	"	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	"	"	U
Styrene	ND	1.00	"	"	"	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	U
Trichloroethene	ND	1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	U
Vinyl chloride	ND	1.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW02 - 7/28

7/28/2016 12:45:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.
X607307-02 (Water)

VOC by EPA 8260C

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121	B6H02 07	08/02/2016	08/02/2016
Surrogate: Toluene-d8	94.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	84-114	"	"	"

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW03 - 7/28

7/28/2016 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc. X607307-03 (Water)

DRO/RRO by EPA8015C

Diesel (C10-C28)	15.1	5.00	mg/L	1	B6G2804	07/29/2016	08/03/2016	
Residual Range Organics (C28-C40)	ND	10.0	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.7 % 54-117 " " "

GRO/TVPH by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
-----------------------------	----	-----	------	---	---------	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.6 % 70-130 " " "
Surrogate: Toluene-d8 81.9 % 70-130 " " "

VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B6H0207	"	08/02/2016	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW03 - 7/28

7/28/2016 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc. X607307-03 (Water)

VOC by EPA 8260C

1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	U
2-Butanone	5.65	5.00	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	U
2-Hexanone	ND	5.00	"	"	"	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	U
Acetone	ND	8.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW03 - 7/28

7/28/2016 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc. X607307-03 (Water)

VOC by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
Bromobenzene	ND	1.00	"	"	"	"	"	U
Bromochloromethane	ND	1.00	"	"	"	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	"	"	U
Bromoform	ND	1.00	"	"	"	"	"	U
Bromomethane	ND	1.00	"	"	"	"	"	U
Carbon disulfide	ND	5.00	"	"	"	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	"	"	U
Chlorobenzene	ND	1.00	"	"	"	"	"	U
Chloroethane	ND	1.00	"	"	"	"	"	U
Chloroform	ND	1.00	"	"	"	"	"	U
Chloromethane	ND	1.00	"	"	"	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	"	"	U
Dibromomethane	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	U
Iodomethane	ND	10.0	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW03 - 7/28

7/28/2016 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc. X607307-03 (Water)

VOC by EPA 8260C

Isopropylbenzene	ND	1.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
m,p-Xylene	ND	2.00	"	"	"	"	"	U
Methylene Chloride	ND	5.00	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	4.00	"	"	"	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	"	"	U
o-Xylene	ND	1.00	"	"	"	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	"	"	U
Styrene	ND	1.00	"	"	"	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	U
Trichloroethene	ND	1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	U
Vinyl chloride	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 84-121 " " "

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW03 - 7/28

7/28/2016 11:35:00AM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

Origins Laboratory, Inc.
X607307-03 (Water)

VOC by EPA 8260C

Surrogate: Toluene-d8	93.2 %	85-115	B6H02 07	08/02/2016	08/02/2016
Surrogate: 4-Bromofluorobenzene	105 %	84-114	"	"	"

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW04 - 7/28
7/28/2016 2:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-04 (Water)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	5.00	mg/L	1	B6G2804	07/29/2016	08/03/2016	U
Residual Range Organics (C28-C40)	ND	10.0	"	"	"	"	"	U

Surrogate: o-Terphenyl 100 % 54-117 " " "

GRO/TVPH by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
-----------------------------	----	-----	------	---	---------	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.0 % 70-130 " " "
Surrogate: Toluene-d8 81.8 % 70-130 " " "

VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B6H0207	"	08/02/2016	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW04 - 7/28
7/28/2016 2:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-04 (Water)

VOC by EPA 8260C

1,2,3-Trichloropropane	ND	5.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	U
2-Butanone	ND	5.00	"	"	"	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	"	"	U
2-Hexanone	ND	5.00	"	"	"	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW04 - 7/28
7/28/2016 2:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-04 (Water)

VOC by EPA 8260C

Acetone	ND	8.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
Benzene	ND	1.00	"	"	"	"	"	U
Bromobenzene	ND	1.00	"	"	"	"	"	U
Bromochloromethane	ND	1.00	"	"	"	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	"	"	U
Bromoform	ND	1.00	"	"	"	"	"	U
Bromomethane	ND	1.00	"	"	"	"	"	U
Carbon disulfide	ND	5.00	"	"	"	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	"	"	U
Chlorobenzene	ND	1.00	"	"	"	"	"	U
Chloroethane	ND	1.00	"	"	"	"	"	U
Chloroform	ND	1.00	"	"	"	"	"	U
Chloromethane	ND	1.00	"	"	"	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	"	"	U
Dibromomethane	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW04 - 7/28
7/28/2016 2:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-04 (Water)

VOC by EPA 8260C

Iodomethane	ND	10.0	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
Isopropylbenzene	ND	1.00	"	"	"	"	"	U
m,p-Xylene	ND	2.00	"	"	"	"	"	U
Methylene Chloride	ND	5.00	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	4.00	"	"	"	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	"	"	U
o-Xylene	ND	1.00	"	"	"	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	"	"	U
Styrene	ND	1.00	"	"	"	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	U
Trichloroethene	ND	1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	U
Vinyl chloride	ND	1.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW04 - 7/28
7/28/2016 2:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-04 (Water)

VOC by EPA 8260C

Surrogate: 1,2-Dichloroethane-d4	109 %	84-121			B6H02 07	08/02/2016	08/02/2016	
Surrogate: Toluene-d8	93.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW05 - 7/28
7/28/2016 2:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-05 (Water)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	5.00	mg/L	1	B6G2804	07/29/2016	08/03/2016	U
Residual Range Organics (C28-C40)	ND	10.0	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.0 % 54-117 " " "

GRO/TVPH by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
-----------------------------	----	-----	------	---	---------	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.2 % 70-130 " " "
Surrogate: Toluene-d8 81.4 % 70-130 " " "

VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B6H0207	"	08/02/2016	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW05 - 7/28
7/28/2016 2:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-05 (Water)

VOC by EPA 8260C

1,2,3-Trichloropropane	ND	5.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	U
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	U
2-Butanone	ND	5.00	"	"	"	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	"	"	U
2-Hexanone	ND	5.00	"	"	"	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW05 - 7/28
7/28/2016 2:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-05 (Water)

VOC by EPA 8260C

Acetone	ND	8.00	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
Benzene	ND	1.00	"	"	"	"	"	U
Bromobenzene	ND	1.00	"	"	"	"	"	U
Bromochloromethane	ND	1.00	"	"	"	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	"	"	U
Bromoform	ND	1.00	"	"	"	"	"	U
Bromomethane	ND	1.00	"	"	"	"	"	U
Carbon disulfide	ND	5.00	"	"	"	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	"	"	U
Chlorobenzene	ND	1.00	"	"	"	"	"	U
Chloroethane	ND	1.00	"	"	"	"	"	U
Chloroform	ND	1.00	"	"	"	"	"	U
Chloromethane	ND	1.00	"	"	"	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	"	"	U
Dibromomethane	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW05 - 7/28
7/28/2016 2:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X607307-05 (Water)

VOC by EPA 8260C

Iodomethane	ND	10.0	ug/L	1	B6H0207	08/02/2016	08/02/2016	U
Isopropylbenzene	ND	1.00	"	"	"	"	"	U
m,p-Xylene	ND	2.00	"	"	"	"	"	U
Methylene Chloride	ND	5.00	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	4.00	"	"	"	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	"	"	U
o-Xylene	ND	1.00	"	"	"	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	"	"	U
Styrene	ND	1.00	"	"	"	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	U
Trichloroethene	ND	1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	U
Vinyl chloride	ND	1.00	"	"	"	"	"	U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

MW05 - 7/28
7/28/2016 2:23:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

Origins Laboratory, Inc.
X607307-05 (Water)

VOC by EPA 8260C

Surrogate: 1,2-Dichloroethane-d4	112 %	84-121	B6H02 07	08/02/2016	08/02/2016
Surrogate: Toluene-d8	93.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	84-114	"	"	"

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)

Blank (B6H0207-BLK1)

Prepared: 08/02/2016 Analyzed: 08/02/2016

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							U
1,1,1-Trichloroethane	ND	1.00	"							U
1,1,2,2-Tetrachloroethane	ND	1.00	"							U
1,1,2-Trichloroethane	ND	1.00	"							U
1,1-Dichloroethane	ND	1.00	"							U
1,1-Dichloroethene	ND	1.00	"							U
1,1-Dichloropropene	ND	1.00	"							U
1,2,3-Trichlorobenzene	ND	5.00	"							U
1,2,3-Trichloropropane	ND	5.00	"							U
1,2,4-Trichlorobenzene	ND	5.00	"							U
1,2,4-Trimethylbenzene	ND	1.00	"							U
1,2-Dibromo-3-chloropropane	ND	5.00	"							U
1,2-Dibromoethane (EDB)	ND	1.00	"							U
1,2-Dichlorobenzene	ND	1.00	"							U
1,2-Dichloroethane	ND	1.00	"							U
1,2-Dichloropropane	ND	1.00	"							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
1,3-Dichlorobenzene	ND	1.00	"							U
1,3-Dichloropropane	ND	1.00	"							U
1,4-Dichlorobenzene	ND	1.00	"							U
2,2-Dichloropropane	ND	1.00	"							U
2-Butanone	ND	5.00	"							U
2-Chlorotoluene	ND	1.00	"							U
2-Hexanone	ND	5.00	"							U
4-Chlorotoluene	ND	1.00	"							U
4-Isopropyltoluene	ND	1.00	"							U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)

Blank (B6H0207-BLK1)

Prepared: 08/02/2016 Analyzed: 08/02/2016

4-Methyl-2-pentanone	ND	5.00	ug/L							U
Acetone	ND	8.00	"							U
Benzene	ND	1.00	"							U
Bromobenzene	ND	1.00	"							U
Bromochloromethane	ND	1.00	"							U
Bromodichloromethane	ND	1.00	"							U
Bromoform	ND	1.00	"							U
Bromomethane	ND	1.00	"							U
Carbon disulfide	ND	5.00	"							U
Carbon tetrachloride	ND	1.00	"							U
Chlorobenzene	ND	1.00	"							U
Chloroethane	ND	1.00	"							U
Chloroform	ND	1.00	"							U
Chloromethane	ND	1.00	"							U
cis-1,2-Dichloroethene	ND	1.00	"							U
cis-1,3-Dichloropropene	ND	1.00	"							U
Dibromochloromethane	ND	1.00	"							U
Dibromomethane	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Hexachlorobutadiene	ND	5.00	"							U
Iodomethane	ND	10.0	"							U
Isopropylbenzene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Methylene Chloride	ND	5.00	"							U
Methyl tert-Butyl Ether	ND	1.00	"							U
Naphthalene	ND	4.00	"							U

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)										
Blank (B6H0207-BLK1)					Prepared: 08/02/2016 Analyzed: 08/02/2016					
n-Butylbenzene	ND	1.00	ug/L							U
n-Propylbenzene	ND	1.00	"							U
o-Xylene	ND	1.00	"							U
sec-Butylbenzene	ND	1.00	"							U
Styrene	ND	1.00	"							U
tert-Butylbenzene	ND	1.00	"							U
Tetrachloroethene	ND	1.00	"							U
Toluene	ND	1.00	"							U
trans-1,2-Dichloroethene	ND	1.00	"							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Trichlorofluoromethane	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	59		"	62.5		95.1	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)

LCS (B6H0207-BS1)

Prepared: 08/02/2016 Analyzed: 08/02/2016

1,1,1,2-Tetrachloroethane	50.1	1.00	ug/L	50.0		100	78.8-128			
1,1,1-Trichloroethane	55.3	1.00	"	50.0		111	82.3-118			
1,1,2,2-Tetrachloroethane	41.9	1.00	"	50.0		83.7	67.9-119			
1,1,2-Trichloroethane	45.1	1.00	"	50.0		90.2	75.4-116			
1,1-Dichloroethane	57.4	1.00	"	50.0		115	80-120			
1,1-Dichloroethene	58.7	1.00	"	50.0		117	79.4-118			
1,1-Dichloropropene	56.4	1.00	"	50.0		113	78-120			
1,2,3-Trichlorobenzene	44.7	5.00	"	50.0		89.4	63.8-134			
1,2,3-Trichloropropane	47.0	5.00	"	50.0		93.9	63.3-121			
1,2,4-Trichlorobenzene	48.2	5.00	"	50.0		96.4	70.4-125			
1,2,4-Trimethylbenzene	54.1	1.00	"	50.0		108	73.3-123			
1,2-Dibromo-3-chloropropane	44.8	5.00	"	50.0		89.7	80-120			
1,2-Dibromoethane (EDB)	45.7	1.00	"	50.0		91.5	74.7-127			
1,2-Dichlorobenzene	48.9	1.00	"	50.0		97.8	81.3-116			
1,2-Dichloroethane	53.4	1.00	"	50.0		107	71.1-120			
1,2-Dichloropropane	54.8	1.00	"	50.0		110	80-120			
1,3,5-Trimethylbenzene	53.8	1.00	"	50.0		108	71.9-128			
1,3-Dichlorobenzene	52.3	1.00	"	50.0		105	82.1-117			
1,3-Dichloropropane	46.2	1.00	"	50.0		92.4	75.1-123			
1,4-Dichlorobenzene	52.3	1.00	"	50.0		105	76.8-119			
2,2-Dichloropropane	57.4	1.00	"	50.0		115	84-120			
2-Butanone	240	5.00	"	250		96.2	64.9-123			
2-Chlorotoluene	52.7	1.00	"	50.0		105	66-133			
2-Hexanone	209	5.00	"	250		83.4	80-120			
4-Chlorotoluene	54.4	1.00	"	50.0		109	73.2-119			
4-Isopropyltoluene	55.3	1.00	"	50.0		111	79.8-120			

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)

LCS (B6H0207-BS1)

Prepared: 08/02/2016 Analyzed: 08/02/2016

4-Methyl-2-pentanone	218	5.00	ug/L	250		87.0	58.5-122			
Acetone	252	8.00	"	250		101	65.4-125			
Benzene	54.4	1.00	"	50.0		109	75.5-116			
Bromobenzene	52.8	1.00	"	50.0		106	70-130			
Bromochloromethane	51.7	1.00	"	50.0		103	80-120			
Bromodichloromethane	53.5	1.00	"	50.0		107	73-123			
Bromoform	48.5	1.00	"	50.0		97.0	75-128			
Bromomethane	54.0	1.00	"	50.0		108	72-138			
Carbon disulfide	54.2	5.00	"	50.0		108	69-129			
Carbon tetrachloride	56.2	1.00	"	50.0		112	80-124			
Chlorobenzene	50.5	1.00	"	50.0		101	78-121			
Chloroethane	56.3	1.00	"	50.0		113	77-138			
Chloroform	54.9	1.00	"	50.0		110	75-117			
Chloromethane	52.5	1.00	"	50.0		105	72-130			
cis-1,2-Dichloroethene	57.4	1.00	"	50.0		115	78-118			
cis-1,3-Dichloropropene	50.2	1.00	"	50.0		100	73-122			
Dibromochloromethane	48.2	1.00	"	50.0		96.4	78-119			
Dibromomethane	50.8	1.00	"	50.0		102	79-116			
Ethylbenzene	54.0	1.00	"	50.0		108	78-130			
Hexachlorobutadiene	57.8	5.00	"	50.0		116	72-129			
Iodomethane	50.7	10.0	"	50.0		101	74-121			
Isopropylbenzene	54.0	1.00	"	50.0		108	75-128			
m,p-Xylene	110	2.00	"	100		110	75-134			
Methylene Chloride	50.6	5.00	"	50.0		101	80-122			
Methyl tert-Butyl Ether	46.1	1.00	"	50.0		92.3	72-125			
Naphthalene	39.7	4.00	"	50.0		79.5	65-128			

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)

LCS (B6H0207-BS1)

Prepared: 08/02/2016 Analyzed: 08/02/2016

n-Butylbenzene	55.6	1.00	ug/L	50.0		111	69-134			
n-Propylbenzene	55.0	1.00	"	50.0		110	74-132			
o-Xylene	53.5	1.00	"	50.0		107	76-129			
sec-Butylbenzene	54.5	1.00	"	50.0		109	74-128			
Styrene	53.4	1.00	"	50.0		107	74-126			
tert-Butylbenzene	54.9	1.00	"	50.0		110	72-123			
Tetrachloroethene	52.6	1.00	"	50.0		105	78-132			
Toluene	51.6	1.00	"	50.0		103	76-128			
trans-1,2-Dichloroethene	57.9	1.00	"	50.0		116	79-120			
trans-1,3-Dichloropropene	50.2	1.00	"	50.0		100	74-122			
Trichloroethene	55.4	1.00	"	50.0		111	76-125			
Trichlorofluoromethane	58.7	1.00	"	50.0		117	66-149			
Vinyl chloride	55.2	1.00	"	50.0		110	70-137			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.8	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)										
Matrix Spike (B6H0207-MS1)		Source: X607307-01			Prepared: 08/02/2016 Analyzed: 08/02/2016					
1,1,1,2-Tetrachloroethane	53.8	1.00	ug/L	50.0	ND	108	82-130			
1,1,1-Trichloroethane	63.1	1.00	"	50.0	ND	126	81-125			QM-07
1,1,2,2-Tetrachloroethane	45.8	1.00	"	50.0	ND	91.6	74-120			
1,1,2-Trichloroethane	46.4	1.00	"	50.0	ND	92.8	80-118			
1,1-Dichloroethane	64.2	1.00	"	50.0	ND	128	79-120			QM-07
1,1-Dichloroethene	67.9	1.00	"	50.0	ND	136	73-130			QM-07
1,1-Dichloropropene	62.7	1.00	"	50.0	0.340	125	77-124			QM-07
1,2,3-Trichlorobenzene	49.7	5.00	"	50.0	0.350	98.8	55-144			
1,2,3-Trichloropropane	49.1	5.00	"	50.0	ND	98.1	67-126			
1,2,4-Trichlorobenzene	53.6	5.00	"	50.0	0.270	107	56-141			
1,2,4-Trimethylbenzene	58.1	1.00	"	50.0	ND	116	62-132			
1,2-Dibromo-3-chloropropane	48.0	5.00	"	50.0	ND	96.1	56-142			
1,2-Dibromoethane (EDB)	47.3	1.00	"	50.0	ND	94.7	84-124			
1,2-Dichlorobenzene	52.5	1.00	"	50.0	ND	105	74-124			
1,2-Dichloroethane	57.4	1.00	"	50.0	ND	115	76-120			
1,2-Dichloropropane	59.0	1.00	"	50.0	ND	118	78-117			QM-07
1,3,5-Trimethylbenzene	57.6	1.00	"	50.0	ND	115	64-138			
1,3-Dichlorobenzene	56.0	1.00	"	50.0	ND	112	73-126			
1,3-Dichloropropane	48.8	1.00	"	50.0	ND	97.6	83-120			
1,4-Dichlorobenzene	55.7	1.00	"	50.0	ND	111	64-130			
2,2-Dichloropropane	65.8	1.00	"	50.0	ND	132	77-129			QM-07
2-Butanone	253	5.00	"	250	ND	101	66-128			
2-Chlorotoluene	56.3	1.00	"	50.0	ND	113	71-130			
2-Hexanone	213	5.00	"	250	ND	85.3	74-123			
4-Chlorotoluene	59.6	1.00	"	50.0	ND	119	66-128			
4-Isopropyltoluene	60.1	1.00	"	50.0	ND	120	60-140			

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)										
Matrix Spike (B6H0207-MS1)		Source: X607307-01			Prepared: 08/02/2016 Analyzed: 08/02/2016					
4-Methyl-2-pentanone	228	5.00	ug/L	250	0.690	90.8	65-125			
Acetone	270	8.00	"	250	ND	108	63-134			
Benzene	60.6	1.00	"	50.0	ND	121	74-130			
Bromobenzene	55.9	1.00	"	50.0	ND	112	70-130			
Bromochloromethane	55.5	1.00	"	50.0	ND	111	80-118			
Bromodichloromethane	57.5	1.00	"	50.0	ND	115	76-122			
Bromoform	50.5	1.00	"	50.0	ND	101	80-128			
Bromomethane	59.0	1.00	"	50.0	ND	118	69-144			
Carbon disulfide	62.2	5.00	"	50.0	ND	124	70-131			
Carbon tetrachloride	63.3	1.00	"	50.0	ND	127	81-130			
Chlorobenzene	53.6	1.00	"	50.0	ND	107	72-128			
Chloroethane	59.1	1.00	"	50.0	ND	118	79-140			
Chloroform	59.3	1.00	"	50.0	ND	119	76-118			QM-07
Chloromethane	56.0	1.00	"	50.0	ND	112	72-128			
cis-1,2-Dichloroethene	64.3	1.00	"	50.0	ND	129	78-120			QM-07
cis-1,3-Dichloropropene	53.7	1.00	"	50.0	ND	107	79-120			
Dibromochloromethane	50.5	1.00	"	50.0	ND	101	81-121			
Dibromomethane	53.3	1.00	"	50.0	ND	107	84-115			
Ethylbenzene	57.7	1.00	"	50.0	ND	115	76-132			
Hexachlorobutadiene	63.9	5.00	"	50.0	ND	128	70-130			
Iodomethane	57.6	10.0	"	50.0	ND	115	72-127			
Isopropylbenzene	57.4	1.00	"	50.0	ND	115	66-135			
m,p-Xylene	118	2.00	"	100	ND	118	69-139			
Methylene Chloride	53.4	5.00	"	50.0	ND	107	87-118			
Methyl tert-Butyl Ether	50.2	1.00	"	50.0	ND	100	62-138			
Naphthalene	44.8	4.00	"	50.0	0.510	88.6	59-148			

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)

Matrix Spike (B6H0207-MS1)		Source: X607307-01			Prepared: 08/02/2016 Analyzed: 08/02/2016					
n-Butylbenzene	59.8	1.00	ug/L	50.0	ND	120	52-146			
n-Propylbenzene	58.9	1.00	"	50.0	ND	118	66-141			
o-Xylene	56.6	1.00	"	50.0	ND	113	74-131			
sec-Butylbenzene	58.6	1.00	"	50.0	ND	117	63-138			
Styrene	56.8	1.00	"	50.0	0.080	113	72-128			
tert-Butylbenzene	58.9	1.00	"	50.0	ND	118	67-129			
Tetrachloroethene	56.9	1.00	"	50.0	ND	114	76-134			
Toluene	55.3	1.00	"	50.0	ND	111	73-131			
trans-1,2-Dichloroethene	65.9	1.00	"	50.0	ND	132	78-123			QM-07
trans-1,3-Dichloropropene	53.7	1.00	"	50.0	ND	107	75-125			
Trichloroethene	61.4	1.00	"	50.0	ND	123	73-131			
Trichlorofluoromethane	62.2	1.00	"	50.0	ND	124	83-141			
Vinyl chloride	56.3	1.00	"	50.0	ND	113	73-139			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		100	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.4	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)										
Matrix Spike Dup (B6H0207-MSD1)	Source: X607307-01				Prepared: 08/02/2016 Analyzed: 08/02/2016					
1,1,1,2-Tetrachloroethane	53.8	1.00	ug/L	50.0	ND	108	82-130	0.130	20	
1,1,1-Trichloroethane	61.3	1.00	"	50.0	ND	123	81-125	2.89	20	
1,1,2,2-Tetrachloroethane	46.5	1.00	"	50.0	ND	93.0	74-120	1.52	20	
1,1,2-Trichloroethane	48.2	1.00	"	50.0	ND	96.3	80-118	3.74	20	
1,1-Dichloroethane	63.6	1.00	"	50.0	ND	127	79-120	0.955	20	QM-07
1,1-Dichloroethene	65.6	1.00	"	50.0	ND	131	73-130	3.43	20	QM-07
1,1-Dichloropropene	61.5	1.00	"	50.0	0.340	122	77-124	1.96	20	
1,2,3-Trichlorobenzene	51.6	5.00	"	50.0	0.350	103	55-144	3.69	20	
1,2,3-Trichloropropane	51.2	5.00	"	50.0	ND	102	67-126	4.31	20	
1,2,4-Trichlorobenzene	54.4	5.00	"	50.0	0.270	108	56-141	1.30	20	
1,2,4-Trimethylbenzene	56.9	1.00	"	50.0	ND	114	62-132	2.02	20	
1,2-Dibromo-3-chloropropane	52.5	5.00	"	50.0	ND	105	56-142	8.89	20	
1,2-Dibromoethane (EDB)	48.1	1.00	"	50.0	ND	96.1	84-124	1.55	20	
1,2-Dichlorobenzene	52.7	1.00	"	50.0	ND	105	74-124	0.285	20	
1,2-Dichloroethane	59.4	1.00	"	50.0	ND	119	76-120	3.44	20	
1,2-Dichloropropane	59.6	1.00	"	50.0	ND	119	78-117	1.15	20	QM-07
1,3,5-Trimethylbenzene	56.8	1.00	"	50.0	ND	114	64-138	1.45	20	
1,3-Dichlorobenzene	55.3	1.00	"	50.0	ND	111	73-126	1.20	20	
1,3-Dichloropropane	50.4	1.00	"	50.0	ND	101	83-120	3.15	20	
1,4-Dichlorobenzene	55.5	1.00	"	50.0	ND	111	64-130	0.396	20	
2,2-Dichloropropane	64.0	1.00	"	50.0	ND	128	77-129	2.90	20	
2-Butanone	284	5.00	"	250	ND	114	66-128	11.6	20	
2-Chlorotoluene	55.1	1.00	"	50.0	ND	110	71-130	2.14	20	
2-Hexanone	244	5.00	"	250	ND	97.5	74-123	13.3	20	
4-Chlorotoluene	58.5	1.00	"	50.0	ND	117	66-128	1.93	20	
4-Isopropyltoluene	59.0	1.00	"	50.0	ND	118	60-140	1.80	20	

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)										
Matrix Spike Dup (B6H0207-MSD1)			Source: X607307-01		Prepared: 08/02/2016 Analyzed: 08/02/2016					
4-Methyl-2-pentanone	250	5.00	ug/L	250	0.690	99.6	65-125	9.29	20	
Acetone	296	8.00	"	250	ND	118	63-134	9.27	20	
Benzene	60.2	1.00	"	50.0	ND	120	74-130	0.762	20	
Bromobenzene	56.7	1.00	"	50.0	ND	113	70-130	1.46	20	
Bromochloromethane	57.0	1.00	"	50.0	ND	114	80-118	2.81	20	
Bromodichloromethane	58.6	1.00	"	50.0	ND	117	76-122	1.81	20	
Bromoform	53.5	1.00	"	50.0	ND	107	80-128	5.69	20	
Bromomethane	55.0	1.00	"	50.0	ND	110	69-144	6.93	20	
Carbon disulfide	60.5	5.00	"	50.0	ND	121	70-131	2.76	20	
Carbon tetrachloride	62.6	1.00	"	50.0	ND	125	81-130	1.14	20	
Chlorobenzene	52.5	1.00	"	50.0	ND	105	72-128	1.96	20	
Chloroethane	57.3	1.00	"	50.0	ND	115	79-140	3.23	20	
Chloroform	59.7	1.00	"	50.0	ND	119	76-118	0.689	20	QM-07
Chloromethane	52.6	1.00	"	50.0	ND	105	72-128	6.29	20	
cis-1,2-Dichloroethene	63.7	1.00	"	50.0	ND	127	78-120	0.906	20	QM-07
cis-1,3-Dichloropropene	53.9	1.00	"	50.0	ND	108	79-120	0.223	20	
Dibromochloromethane	51.7	1.00	"	50.0	ND	103	81-121	2.31	20	
Dibromomethane	56.1	1.00	"	50.0	ND	112	84-115	5.23	20	
Ethylbenzene	55.9	1.00	"	50.0	ND	112	76-132	3.19	20	
Hexachlorobutadiene	60.9	5.00	"	50.0	ND	122	70-130	4.86	20	
Iodomethane	56.6	10.0	"	50.0	ND	113	72-127	1.82	20	
Isopropylbenzene	56.1	1.00	"	50.0	ND	112	66-135	2.27	20	
m,p-Xylene	114	2.00	"	100	ND	114	69-139	2.90	20	
Methylene Chloride	54.0	5.00	"	50.0	ND	108	87-118	1.21	20	
Methyl tert-Butyl Ether	54.6	1.00	"	50.0	ND	109	62-138	8.33	20	
Naphthalene	47.0	4.00	"	50.0	0.510	93.0	59-148	4.84	20	

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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 B6H0207 - EPA 5030B (Water)										
Matrix Spike Dup (B6H0207-MSD1)	Source: X607307-01				Prepared: 08/02/2016 Analyzed: 08/02/2016					
n-Butylbenzene	58.0	1.00	ug/L	50.0	ND	116	52-146	3.11	20	
n-Propylbenzene	57.0	1.00	"	50.0	ND	114	66-141	3.19	20	
o-Xylene	55.6	1.00	"	50.0	ND	111	74-131	1.82	20	
sec-Butylbenzene	56.8	1.00	"	50.0	ND	114	63-138	3.14	20	
Styrene	56.6	1.00	"	50.0	0.080	113	72-128	0.353	20	
tert-Butylbenzene	57.1	1.00	"	50.0	ND	114	67-129	3.17	20	
Tetrachloroethene	54.7	1.00	"	50.0	ND	109	76-134	3.99	20	
Toluene	53.5	1.00	"	50.0	ND	107	73-131	3.31	20	
trans-1,2-Dichloroethene	64.4	1.00	"	50.0	ND	129	78-123	2.24	20	QM-07
trans-1,3-Dichloropropene	53.9	1.00	"	50.0	ND	108	75-125	0.223	20	
Trichloroethene	60.7	1.00	"	50.0	ND	121	73-131	1.16	20	
Trichlorofluoromethane	58.1	1.00	"	50.0	ND	116	83-141	6.77	20	
Vinyl chloride	52.2	1.00	"	50.0	ND	104	73-139	7.60	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	84-121			
Surrogate: Toluene-d8	59		"	62.5		93.7	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B6G2804 - EPA 3511 Mod.

Blank (B6G2804-BLK1)

Prepared: 07/28/2016 Analyzed: 07/29/2016

Diesel (C10-C28)	ND	5.00	mg/L							U
Residual Range Organics (C28-C40)	ND	10.0	"							U
Surrogate: o-Terphenyl	3.7		"	5.00		73.4	54-117			

LCS (B6G2804-BS1)

Prepared: 07/28/2016 Analyzed: 07/29/2016

Diesel (C10-C28)	96.7	5.00	mg/L	100		96.7	61-120			
Residual Range Organics (C28-C40)	86.5	10.0	"	100		86.5	66-113			
Surrogate: o-Terphenyl	4.3		"	5.00		85.5	54-117			

Matrix Spike (B6G2804-MS1)

Source: X607280-01

Prepared: 07/28/2016 Analyzed: 08/01/2016

Diesel (C10-C28)	195	5.00	mg/L	100	55.3	140	54-126			QM-07
Residual Range Organics (C28-C40)	128	10.0	"	100	ND	128	50-128			
Surrogate: o-Terphenyl	4.5		"	5.00		90.5	54-117			

Matrix Spike Dup (B6G2804-MSD1)

Source: X607280-01

Prepared: 07/28/2016 Analyzed: 07/29/2016

Diesel (C10-C28)	165	5.00	mg/L	100	55.3	110	54-126	16.8	20	
Residual Range Organics (C28-C40)	107	10.0	"	100	ND	107	50-128	17.4	20	
Surrogate: o-Terphenyl	3.4		"	5.00		67.9	54-117			

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

Mike Jahn
Project Number: AFE.2107112.CON
Project: KMG - DFMF #2

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6H0207 - EPA 5030B (Water)										
LCS (B6H0207-BS1)					Prepared: 08/02/2016 Analyzed: 08/02/2016					
Gasoline Range Hydrocarbons	1900	100	ug/L	2000		95.0	80-120			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.9	70-130			
Surrogate: Toluene-d8	53		"	62.5		84.6	70-130			
LCS Dup (B6H0207-BSD1)					Prepared: 08/02/2016 Analyzed: 08/02/2016					
Gasoline Range Hydrocarbons	1810	100	ug/L	2000		90.6	80-120	4.74	20	
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			
Surrogate: Toluene-d8	51		"	62.5		82.1	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

Mike Jahn

Project Number: AFE.2107112.CON

Project: KMG - DFMF #2

Notes and Definitions

U Sample is Non-Detect.

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.

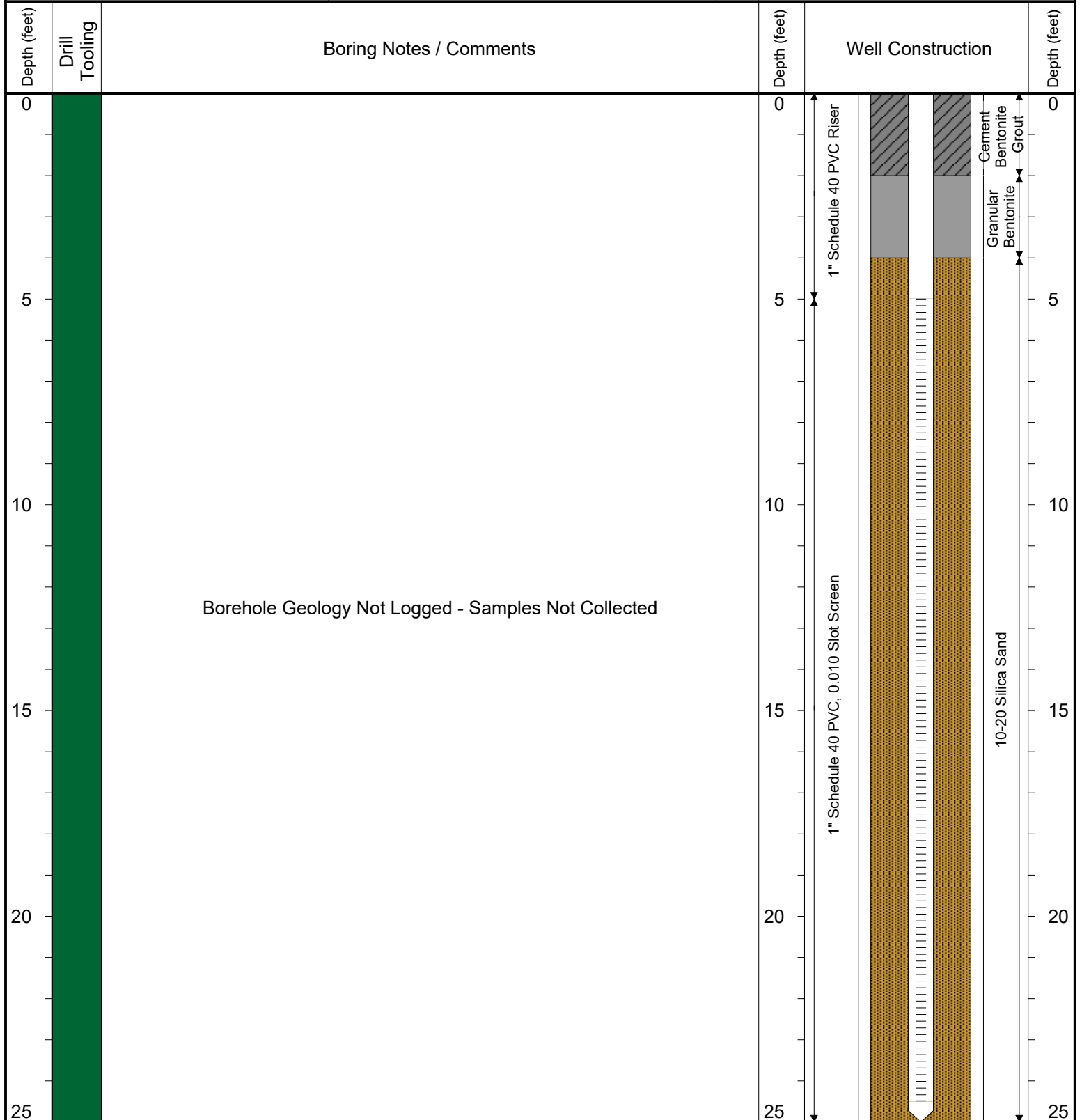
Jen Pellegrini For Noelle Doyle Mathis, President

ATTACHMENT B
WELL COMPLETION LOGS



6899 Pecos Street, Unit C
Denver, Colorado 80221

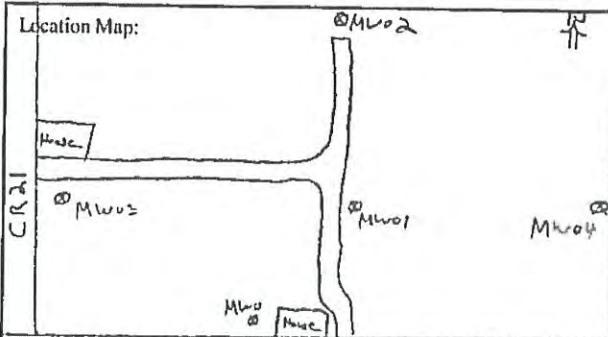
CLIENT: Kerr-McGee Oil and Gas Onshore, LP	DFMF #2
DRILLED BY: Tyler Blessing & Brandon LeVassuer	
PROJECT MANAGER: Robert Cornez	BORING / WELL ID: MW01R
DRILLING CONTRACTOR: Tasman Geosciences, Inc.	
DRILLING EQUIPMENT: AMS PowerProbe	SURFACE COMPLETION: Stick Up Monument
DRILL BIT SIZE (INCHES): 2-3/8"	LATITUDE (NAD 83): Not Surveyed
DATE STARTED - COMPLETED: 05/05/16 - 05/05/16	LONGITUDE (NAD 83): Not Surveyed
TOTAL WELL DEPTH (FT. BGS): 25	CASING ELEVATION (FT. AMSL): Not Surveyed
DEPTH TO WATER (FT. BGS): Not Measured ▼	GROUND ELEVATION (FT. AMSL): Not Surveyed



Drilling / Sample Method:

- Solid-Stem Auger
- Perforated Injection Tool
- Direct Push - Expendable Well Tip

Location Map:



Compliance, Engineering, Remediation
 LT Environmental, Inc.
 4400 West 46th Ave.
 Denver, Colorado 80212

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	MW02	Project:	DFMF #2 Strear
Date:	9/20/2013	Project Number:	14213242
Logged By:	Jeremy Espinoza	Drilled By:	ACI
Drilling Method:	Direct Push	Sampling Method:	Continuous
Seal:	bentonite	Grout:	Cement
Casing Type:	PVC	Diameter:	1"
Screen Type:	PVC	Length:	15'
Gravel Pack:	silica sand	Hole Diameter:	3"
Elevation:		Total Depth:	85'
Detector:	MiniRae 2000 PID	Depth to Liquid:	
Slot:	0.01	Depth to Water:	16'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0			0-7' Patholed, not logged	
					2				
					4			7-10' fine sand, med brown, moist, no skin, no odor	
					6				
	moist	0.0	None	NA	8	5/5	SP	10'-20' Sandy clay, med brown moist, med cohesion, med plasticity, no skin, no odor 16'	
		0.0			10	5/5	CL	20'-25' Claystone, grey, wet, blocky, no skin, no odor	
		0.0			12				
		0.0			14	4/4			
		0.0			16				
					18	4/4			
					20				
					22	4/4			
					24				
					26				
					28				
					30				

<p>Location Map:</p>		<p>Compliance, Engineering, Remediation LT Environmental, Inc. 4400 West 46th Ave. Denver, Colorado 80212</p>	
BORING LOG/MONITORING WELL COMPLETION DIAGRAM			
Boring/Well Number: MW03		Project: DFMF #2 Strear	
Date: 9/20/2013		Project Number: 14213242	
Logged By: Jeremy Espinoza		Drilled By: ACI	
Drilling Method: Direct Push		Sampling Method: Cuttings	
Elevation:	Detector: MiniRae 2000 PID	Seal: bentonite	Grout: Cement
Gravel Pack: silica sand			
Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"
Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 15'
		Total Depth: 25'	Depth to Water: 18'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0			0-7' Potholed, not logged	
					2				
					4			7-10' Fine sand, med brown, moist, no stain, no odor	
					6				
	Moist	0.0	None	NA	8	5	SP	10'-15' Sandy clay, med brown, moist, high cohesion, med plasticity, no stain, no odor	
					10	5	CL		
					12				
		0.0			14	4	SP	15'-25' Fine sand, med brown to grey, wet at 18', no stain, no odor	
					16	4			
		0.0			18	3		- 6" Stringer of clay at 17'	
					20	3		- 6" Stringer of sandy clay at 20' and 22'	
		0.0			22	3			
					24	3			
		0.0			26				
					28			25'-25' Claystone, grey, blocky, wet, no stain, no odor	
					30				

<p>Location Map:</p>				<p>Compliance, Engineering, Remediation LT Environmental, Inc. 4400 West 46th Ave. Denver, Colorado 80212</p>																																																																																																																																																																													
BORING LOG/MONITORING WELL COMPLETION DIAGRAM																																																																																																																																																																																	
Boring/Well Number: MW04				Project: DFMF #2 Strear																																																																																																																																																																													
Date: 9/20/2013				Project Number: 14213242																																																																																																																																																																													
Logged By: Jeremy Espinoza				Drilled By: ACI																																																																																																																																																																													
Elevation: CR18				Drilling Method: Direct Push																																																																																																																																																																													
Detector: MiniRae 2000 PID				Sampling Method: Continuous																																																																																																																																																																													
Gravel Pack: silica sand				Seal: bentonite																																																																																																																																																																													
Casing Type: PVC				Diameter: 1"		Length: 10'																																																																																																																																																																											
Screen Type: PVC				Slot: 0.01		Diameter: 1"																																																																																																																																																																											
						Hole Diameter: 3"																																																																																																																																																																											
						Total Depth: 25'																																																																																																																																																																											
						Depth to Liquid: > 7'																																																																																																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Penetration Resistance</th> <th>Moisture Content</th> <th>Vapor (ppm)</th> <th>Staining</th> <th>Sample #</th> <th>Depth (ft. bgs.)</th> <th>Sample Run</th> <th>Soil/Rock Type</th> <th>Lithology/Remarks</th> <th>Well Completion</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>0-7' Potholed, not logged</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td>7-10' fine sand, black, wet, organics, odor</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>wet</td> <td>138.1</td> <td>Black</td> <td>NA</td> <td>8</td> <td>5</td> <td>SP</td> <td>10-13' fine sand, med brown, wet, no skin, odor</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>None</td> <td></td> <td>10</td> <td>5</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12</td> <td></td> <td></td> <td>13'-20' Sandy clay, med brown, wet, med cohesion, high plasticity</td> <td></td> </tr> <tr> <td></td> <td></td> <td>0.0</td> <td></td> <td></td> <td>14</td> <td>5</td> <td>CH</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>16</td> <td>5</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>0.0</td> <td></td> <td></td> <td>18</td> <td></td> <td></td> <td>20'-25' Claystone, grey, blocky, wet, no skin, no odor</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20</td> <td>5</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>0.0</td> <td></td> <td></td> <td>22</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>24</td> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>26</td> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>28</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>30</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion						0			0-7' Potholed, not logged							2										4			7-10' fine sand, black, wet, organics, odor							6						wet	138.1	Black	NA	8	5	SP	10-13' fine sand, med brown, wet, no skin, odor					None		10	5									12			13'-20' Sandy clay, med brown, wet, med cohesion, high plasticity				0.0			14	5	CH								16	5						0.0			18			20'-25' Claystone, grey, blocky, wet, no skin, no odor							20	5						0.0			22										24	3									26	3									28										30				
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion																																																																																																																																																																								
					0			0-7' Potholed, not logged																																																																																																																																																																									
					2																																																																																																																																																																												
					4			7-10' fine sand, black, wet, organics, odor																																																																																																																																																																									
					6																																																																																																																																																																												
	wet	138.1	Black	NA	8	5	SP	10-13' fine sand, med brown, wet, no skin, odor																																																																																																																																																																									
			None		10	5																																																																																																																																																																											
					12			13'-20' Sandy clay, med brown, wet, med cohesion, high plasticity																																																																																																																																																																									
		0.0			14	5	CH																																																																																																																																																																										
					16	5																																																																																																																																																																											
		0.0			18			20'-25' Claystone, grey, blocky, wet, no skin, no odor																																																																																																																																																																									
					20	5																																																																																																																																																																											
		0.0			22																																																																																																																																																																												
					24	3																																																																																																																																																																											
					26	3																																																																																																																																																																											
					28																																																																																																																																																																												
					30																																																																																																																																																																												

Location Map: 		 Compliance, Engineering, Remediation LT Environmental, Inc. 4400 West 46th Ave. Denver, Colorado 80212							
BORING LOG/MONITORING WELL COMPLETION DIAGRAM									
Boring/Well Number: MW05		Project: DFMF #2 Strear							
Date: 4/23/2013 9/20/2013		Project Number: 14213242							
Logged By: Jeremy Espinoza		Drilled By: ACI							
Drilling Method: Direct Push		Sampling Method: Continuous							
Gravel Pack: silica sand		Seal: bentonite							
Casing Type: PVC		Grout: Cement							
Screen Type: PVC		Diameter: 1"	Length: 10'						
Slot: 0.01		Diameter: 1"	Length: 15'						
		Total Depth: 25'	Depth to Liquid: 12'						
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run Accuracy	Soil/Rock Type	Lithology/Remarks	Well Completion
					0			0-7' Patholed, no logged	
					2				
					4				
					6				
	Moist		None	NA	8	5/5	SP	7-16' Fine sand, med brown, moist, no stain, no odor	
	↓	0.0			10	5/5		- wet at 12'	
	wet				12			- 1' stringer of sandy clay at 13'	
		0.0			14	5/5	CL	16'-25' Sandy clay, med brown, wet, mod cohesion, mod plasticity, no stain, no odor	
					16				
		0.0			18	4/4			
					20	4/4		23'-25' Gravelly clay, med brown, wet, high cohesion, low plasticity, no stain, no odor	
		0.0			22	4/4	ML		
					24				
					26				
					28				
					30				