



March 12, 2019

Mr. Gregory Hamilton
Senior Staff HSE Representative
Kerr-McGee Oil & Gas Onshore LP
1099 18th Street, Suite 1800
Denver, Colorado 80202

**Re: Sump Closure Summary Letter Report
Sekich 14-19 Production Facility [formerly Sekich P19-21D South]
API: 05-123-32771
Facility ID: 426009
Legal: NWSE Sec 19-T3N-R67W
Remediation Project # 12507**

Dear Mr. Hamilton:

On behalf of Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee), Tasman Geosciences, Inc. (Tasman) has prepared this Sump Closure Summary Letter Report (Report) to document sampling activities and the results of environmental testing at the above-referenced site (Site). This Report is being submitted under Form 27 Site Investigation and Remediation Workplan Remediation # 12507. Tasman provided environmental services at the site that included collection of confirmation samples from the excavation, documentation of field activities, and review of analytical data as described below.

Site Assessment Activities

The field activities described herein were performed with the purpose of assessing potential hydrocarbon impacts at the Site related to the closure of the produced water sump. Soil sampling activities, laboratory analytical results, and conclusions are presented below.

Excavation sampling activities were initiated on March 26, 2018, following the removal of the produced water sump subsequent to damages incurred at the projection facility. The final extent of the sump excavation measured approximately 21 feet by 18 feet with an approximate depth of 6 feet below ground surface (bgs). Excavation material was not removed from the site during excavation and closure activities. A liner was not present at the location. Groundwater was not encountered in the excavation area.

Five (5) soil samples were collected from the sidewalls and base of the final extent of the sump excavation area at approximately 5 and 6 feet bgs, respectively. The soil samples were field screened for volatile organic compound (VOC) concentrations using a photoionization detector (PID). Based on the field screening results, the excavation base soil sample (B01@6') was 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 United States Environmental Protection Agency (USEPA) Method 8260C, TPH – diesel range and oil range organics (DRO and ORO) by USEPA Method 8015, electrical conductivity (EC), and pH. The remaining samples were placed on hold pending base sample results.

Following the removal of facility infrastructure related to damages incurred in 2017, and at the request of the Colorado Oil and Gas Conservation Commission (COGCC), additional soil assessment activities were completed on January 28, 2019. Ten (10) surface soil samples were collected from approximately 0 to 6 inches bgs from areas immediately adjacent to and within the footprint of the former production facility. A soil boring (SB01) was advanced via hand auger within the footprint of the former produced water vessel. Two (2) soil samples were collected from the soil boring at depths ranging from approximately 2 feet to 6 feet bgs. The soil samples were field screened for VOC concentrations using a PID. Based on the field screening results, twelve (12) soil samples were selected and submitted to Origins Laboratory in Denver, Colorado, for analysis of BTEX, TPH – GRO by USEPA Method 8260C, TPH – DRO and ORO by USEPA Method 8015, EC, and pH.

The general Site layout, sample locations and approximate final extent of the sump excavation are illustrated on Figure 1.

Results

Soil analytical results for base soil sample B01@5' indicated that constituent concentrations were in full compliance with State standards. Based on the results, the remaining soil samples collected in March 2018 were not analyzed. Soil analytical results for the 12 soil samples collected in January 2019 indicated that constituent concentrations were in full compliance with State standards. Soil analytical data are provided in Table 1. The laboratory analytical report is provided as Attachment A.

Conclusions

Analytical results described herein confirm that BTEX and TPH impacts are not present at concentrations above applicable regulatory standards at the former production facility and produced water sump location. Therefore, no further site assessment or remedial activity is recommended at this time. Following Site assessment activities, the produced water sump was removed and the excavation area was backfilled and contoured to match pre-existing conditions.

Please contact me at (303) 487-1228 if you have any questions regarding this report or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'MJahn', is written in a cursive style.

Mike Jahn, PG
Project Manager

Attachments:

- Table 1 – Soil Sample Results Summary Table
- Figure 1 – Sample Location Map
- Attachment A – Laboratory Analytical Reports

Table

TABLE 1
SEKICH 14-19 PRODUCTION FACILITY
SOIL SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Depth (ft. bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	EC (mmhos/cm)	pH (units)
COGCC standards for soil (mg/kg) ⁽¹⁾			0.17	85	100	175	500			4 mmhos/cm or 2x BG	6-9
B01@6'	03/26/18	6	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.193	8.02
SS01@0-6"	01/28/19	0 - 0.5	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.312	7.96
SS02@0-6"	01/28/19	0 - 0.5	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.248	7.93
SS03@0-6"	01/28/19	0 - 0.5	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.671	7.65
SS04@0-6"	01/28/19	0 - 0.5	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.420	7.98
SS05@0-6"	01/28/19	0 - 0.5	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.202	8.27
SS06@0-6"	01/28/19	0 - 0.5	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.784	7.55
SS07@0-6"	01/28/19	0 - 0.5	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.378	7.98
SS08@0-6"	01/28/19	0 - 0.5	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.301	7.97
SS09@0-6"	01/28/19	0 - 0.5	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.515	7.98
SS10@0-6"	01/28/19	0 - 0.5	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.398	7.97
SB01@2-3'	01/28/19	2 - 3	<0.050	<0.050	<0.050	<0.050	<5.00	< 25.0	<100	0.151	8.59
SB01@5-6'	01/28/19	5 - 6	<0.002	<0.002	<0.002	<0.002	<0.200	< 25.0	<100	0.194	8.03

Notes:

(1) Standards for soil 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.

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

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

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

EC = Electrical conductivity.

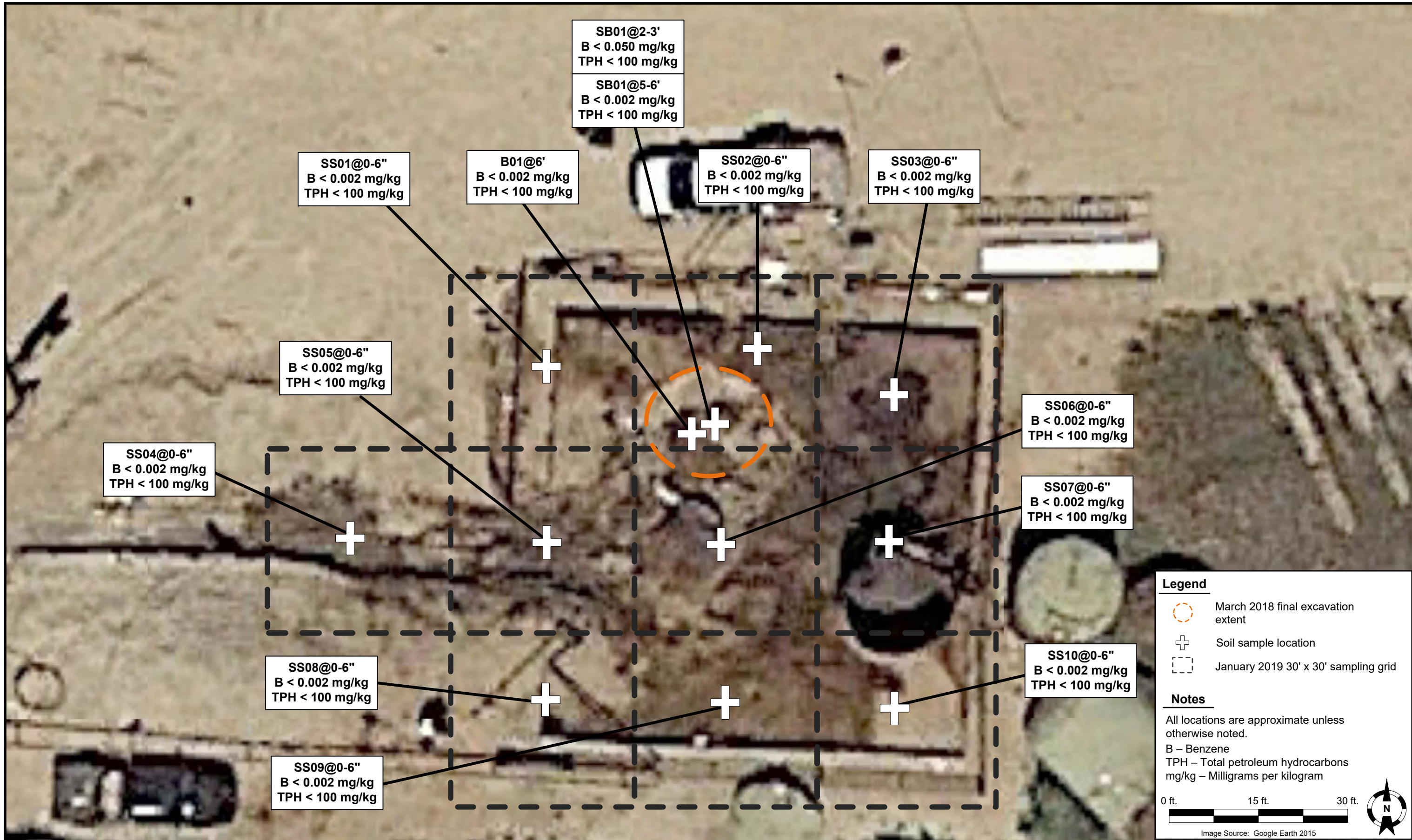
mmhos/cm = Millimhos per centimeter.

mg/kg = Milligrams per kilogram.

ft. bgs = Feet below ground surface.

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

Figure



DATE: February 8, 2019

DESIGNED BY: M. Jahn

DRAWN BY: M. Jahn



Kerr-McGee Oil and Gas Onshore LP
Sekich 14-19 Production Facility
 NWSE Sec. 19-T3N-R67W
 Weld County, Colorado

Soil Sample
 Location Map

FIGURE
 1

Attachment A

March 27, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Sekich P19-21D South

Project Number - [none]

Attached are your analytical results for KMG - Sekich P19-21D South received by Origins Laboratory, Inc. March 26, 2018. This project is associated with Origins project number Y803450-01.

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

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

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

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

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

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



Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Sekich P19-21D South

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y803450-01	Soil	March 26, 2018 14:25	03/26/2018 17:00

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7003450

Client: Tasman
 Client Project ID: KMG - Sekich P19-21D South

Checklist Completed by: SG
 Date/time completed: 3/26/12

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

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

Cooler Number/Temperature: 1 / 3.4 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: JCO3

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

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

Reviewed by (Project Manager) _____ Date/Time Reviewed 3/26/12

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

B01@6'
3/26/2018 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803450-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8C2605	03/26/2018	03/26/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8C2604	03/26/2018	03/26/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "
Surrogate: Toluene-d8 95.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.02		pH Units	1	B8C2606	03/26/2018	03/26/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.193		mmhos/cm	"	B8C2607	03/26/2018	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

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 B8C2604 - EPA 5030 (soil)										
Blank (B8C2604-BLK1)										
					Prepared: 03/26/2018 Analyzed: 03/26/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

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 B8C2604 - EPA 5030 (soil)										
Blank (B8C2604-BLK2)										
					Prepared: 03/26/2018 Analyzed: 03/26/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8C2604 - EPA 5030 (soil)

LCS (B8C2604-BS1)

Prepared: 03/26/2018 Analyzed: 03/26/2018

Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.100	0.002	"	0.100		99.8	66.4-127			
m,p-Xylene	0.192	0.004	"	0.200		96.2	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		95.0	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8C2604 - EPA 5030 (soil)

LCS (B8C2604-BS2)

Prepared: 03/26/2018 Analyzed: 03/26/2018

Benzene	0.096	0.002	mg/kg	0.100		96.4	77.1-124			
Toluene	0.087	0.002	"	0.100		87.2	74.5-128			
Ethylbenzene	0.084	0.002	"	0.100		84.3	66.4-127			
m,p-Xylene	0.165	0.004	"	0.200		82.6	76.6-124			
o-Xylene	0.081	0.002	"	0.100		80.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8C2604 - EPA 5030 (soil)

Matrix Spike (B8C2604-MS1)	Source: Y803344-01			Prepared: 03/26/2018 Analyzed: 03/26/2018						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126			
Toluene	0.096	0.002	"	0.100	ND	95.5	65.1-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	92.9	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	ND	90.4	46.5-137			
o-Xylene	0.087	0.002	"	0.100	ND	87.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8C2604 - EPA 5030 (soil)

Matrix Spike (B8C2604-MS2)	Source: Y803445-03			Prepared: 03/26/2018 Analyzed: 03/26/2018						
Benzene	0.118	0.002	mg/kg	0.100	ND	118	71.8-126			
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130			
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130			
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137			
o-Xylene	0.098	0.002	"	0.100	ND	97.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8C2604 - EPA 5030 (soil)

Matrix Spike Dup (B8C2604-MSD1)	Source: Y803344-01			Prepared: 03/26/2018 Analyzed: 03/26/2018						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	4.99	11.3	
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130	4.90	15.4	
Ethylbenzene	0.096	0.002	"	0.100	ND	95.9	62.2-130	3.16	19.6	
m,p-Xylene	0.186	0.004	"	0.200	ND	92.8	46.5-137	2.57	19.2	
o-Xylene	0.089	0.002	"	0.100	ND	89.3	54.2-134	2.13	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8C2604 - EPA 5030 (soil)

Matrix Spike Dup (B8C2604-MSD2)	Source: Y803445-03			Prepared: 03/26/2018 Analyzed: 03/26/2018						
Benzene	0.116	0.002	mg/kg	0.100	ND	116	71.8-126	1.38	11.3	
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130	2.25	15.4	
Ethylbenzene	0.105	0.002	"	0.100	ND	105	62.2-130	0.669	19.6	
m,p-Xylene	0.201	0.004	"	0.200	ND	100	46.5-137	0.764	19.2	
o-Xylene	0.097	0.002	"	0.100	ND	96.8	54.2-134	0.700	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.2	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Sekich P19-21D South

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

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

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

Batch B8C2605 - EPA 3550B

Blank (B8C2605-BLK1)

Prepared: 03/26/2018 Analyzed: 03/26/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	40		"	50.0		80.9	59-131			

Blank (B8C2605-BLK2)

Prepared: 03/26/2018 Analyzed: 03/26/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		88.7	59-131			

LCS (B8C2605-BS1)

Prepared: 03/26/2018 Analyzed: 03/26/2018

Diesel (C10-C28)	768	50.0	mg/kg	1000		76.8	64-121			
Residual Range Organics (C28-C40)	748	200	"	1000		74.8	58-124			
Surrogate: o-Terphenyl	46		"	50.0		91.4	59-131			

LCS (B8C2605-BS2)

Prepared: 03/26/2018 Analyzed: 03/26/2018

Diesel (C10-C28)	834	50.0	mg/kg	1000		83.4	64-121			
Residual Range Organics (C28-C40)	780	200	"	1000		78.0	58-124			
Surrogate: o-Terphenyl	46		"	50.0		93.0	59-131			

Matrix Spike (B8C2605-MS1)

Source: Y803344-01

Prepared: 03/26/2018 Analyzed: 03/26/2018

Diesel (C10-C28)	828	50.0	mg/kg	1000	ND	82.8	53-125			
Residual Range Organics (C28-C40)	773	200	"	1000	ND	77.3	47-133			

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 - Sekich P19-21D South

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 B8C2605 - EPA 3550B										
Matrix Spike (B8C2605-MS1)			Source: Y803344-01		Prepared: 03/26/2018 Analyzed: 03/26/2018					
Surrogate: o-Terphenyl	47		mg/kg	50.0		94.0	59-131			
Matrix Spike (B8C2605-MS2)			Source: Y803445-03		Prepared: 03/26/2018 Analyzed: 03/27/2018					
Diesel (C10-C28)	816	50.0	mg/kg	1000	13.1	80.3	53-125			
Residual Range Organics (C28-C40)	783	200	"	1000	33.6	74.9	47-133			
Surrogate: o-Terphenyl	44		"	50.0		88.1	59-131			
Matrix Spike Dup (B8C2605-MSD1)			Source: Y803344-01		Prepared: 03/26/2018 Analyzed: 03/26/2018					
Diesel (C10-C28)	785	50.0	mg/kg	1000	ND	78.5	53-125	5.37	20	
Residual Range Organics (C28-C40)	748	200	"	1000	ND	74.8	47-133	3.21	20	
Surrogate: o-Terphenyl	44		"	50.0		88.7	59-131			
Matrix Spike Dup (B8C2605-MSD2)			Source: Y803445-03		Prepared: 03/26/2018 Analyzed: 03/27/2018					
Diesel (C10-C28)	829	50.0	mg/kg	1000	13.1	81.6	53-125	1.59	20	
Residual Range Organics (C28-C40)	812	200	"	1000	33.6	77.8	47-133	3.81	20	
Surrogate: o-Terphenyl	46		"	50.0		91.6	59-131			

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 - Sekich P19-21D South

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8C2606 - NO PREP										
Duplicate (B8C2606-DUP1)		Source: Y803342-01			Prepared: 03/26/2018 Analyzed: 03/26/2018					
pH	6.60		pH Units		6.60			0.00	25	
Batch B8C2607 - NO PREP										
Blank (B8C2607-BLK1)		Prepared: 03/26/2018 Analyzed: 03/26/2018								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B8C2607-DUP1)		Source: Y803342-01			Prepared: 03/26/2018 Analyzed: 03/26/2018					
Specific Conductance (EC)	0.218		mmhos/cm		0.236			8.16	25	

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 - Sekich P19-21D South

Notes and Definitions

U Sample is Non-Detect.

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

January 29, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Sekich 14-19

Project Number - 89287809

Attached are your analytical results for KMG - Sekich 14-19 received by Origins Laboratory, Inc. January 28, 2019. This project is associated with Origins project number Y901353-01.

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

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

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

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

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

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



Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89287809
Project: KMG - Sekich 14-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@0-6"	Y901353-01	Soil	January 28, 2019 10:40	01/28/2019 15:15
SS02@0-6"	Y901353-02	Soil	January 28, 2019 10:45	01/28/2019 15:15
SS03@0-6"	Y901353-03	Soil	January 28, 2019 10:50	01/28/2019 15:15
SS04@0-6"	Y901353-04	Soil	January 28, 2019 10:55	01/28/2019 15:15
SS05@0-6"	Y901353-05	Soil	January 28, 2019 11:00	01/28/2019 15:15
SS06@0-6"	Y901353-06	Soil	January 28, 2019 11:10	01/28/2019 15:15
SS07@0-6"	Y901353-07	Soil	January 28, 2019 11:15	01/28/2019 15:15
SS08@0-6"	Y901353-08	Soil	January 28, 2019 11:20	01/28/2019 15:15
SS09@0-6"	Y901353-09	Soil	January 28, 2019 11:25	01/28/2019 15:15
SS10@0-6"	Y901353-10	Soil	January 28, 2019 11:30	01/28/2019 15:15
SB01@2-3'	Y901353-11	Soil	January 28, 2019 11:49	01/28/2019 15:15
SB01@5-6'	Y901353-12	Soil	January 28, 2019 11:58	01/28/2019 15:15

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: 89287809
 Project: KMG - Sekich 14-19

ORIGINS
 LABORATORY, INC
 www.originslaboratory.com
 page 1 of 8

Client: AFC Project Manager/Send Report To: Robert Cornez
 Address: _____ Email Address: robert@tasman-geo.com
 Telephone Number: _____ Project Name/Number: Sekich 14-19/89287809
 Samples Collected By: BDL and ES

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/Method				Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #	Other	GC/MS	DNA/PCR	Bois		PH		
S2010.6"	1-28-19	10:40	2	X				X					X	X				
S2020.6"		10:45	1										X	X				
S2030.6"		10:50	1										X	X				
S2040.6"		10:55	1										X	X				
S2050.6"		1:00	1										X	X				
S2060.6"		1:05	1										X	X				
S2070.6"		1:10	1										X	X				
S2080.6"		1:15	1										X	X				
S2090.6"		1:20	1										X	X				
S2100.6"		1:25	1										X	X				
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Turnaround Time:		
<u>BDL</u>	1-28-19	15:15	15:15	<u>BDL</u>	1-28-19	15:15	15:15	<u>BDL</u>	1-28-19	15:15	15:15	<u>BDL</u>	1-28-19	15:15	15:15	Same Day <input checked="" type="checkbox"/>	24 Hr <input type="checkbox"/>	
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>	Standard <input type="checkbox"/>

Comments: _____ Date Results Needed: _____
 30

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: 89287809
 Project: KMG - Sekich 14-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y901353

Client: Tasman

Client Project ID: KMG - Sekich 14-19

Checklist Completed by: JG

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

Date/time completed: 1/28/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.0 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/28/19

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: 89287809
 Project: KMG - Sekich 14-19

SS01@0-6"

1/28/2019 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 83.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.1 % 70-130 " " "
 Surrogate: Toluene-d8 96.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.96		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.312	0.00506	mmhos/cm	"	B9A2807	OLAB	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SS02@0-6"

1/28/2019 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 80.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.5 % 70-130 " " "
 Surrogate: Toluene-d8 96.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.8 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.93		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.248	0.00502	mmhos/cm	"	B9A2807	OLAB	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SS03@0-6"

1/28/2019 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 76.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.2 % 70-130 " " "
Surrogate: Toluene-d8 96.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.65		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.671	0.00508	mmhos/cm	"	B9A2807	OLAB	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SS04@0-6"

1/28/2019 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 77.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.7 % 70-130 " " "
 Surrogate: Toluene-d8 96.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.98		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.420	0.00508	mmhos/cm	"	B9A2807	OLAB	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SS05@0-6"

1/28/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 84.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 95.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.27		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.202	0.00508	mmhos/cm	"	B9A2807	OLAB	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SS06@0-6"

1/28/2019 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 85.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 95.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.0 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.55		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.784	0.00500	mmhos/cm	"	B9A2807	OLAB	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SS07@0-6"

1/28/2019 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 71.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 96.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.3 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.98		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.378	0.00502	mmhos/cm	"	B9A2807	OLAB	"	"	
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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SS08@0-6"

1/28/2019 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 86.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 97.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.97		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.301	0.00507	mmhos/cm	"	B9A2807	OLAB	"	"	
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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SS09@0-6"

1/28/2019 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 87.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
 Surrogate: Toluene-d8 97.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.98		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.515	0.00500	mmhos/cm	"	B9A2807	OLAB	"	"	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SS10@0-6"

1/28/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 72.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 96.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.97		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.398	0.00500	mmhos/cm	"	B9A2807	OLAB	"	"	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SB01@2-3'

1/28/2019 11:49:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 80.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9A2810	JTD	01/28/2019	01/28/2019	U
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.4 % 70-130 " " "
Surrogate: Toluene-d8 98.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.59		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.151	0.00506	mmhos/cm	"	B9A2807	OLAB	"	"	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

SB01@5-6'

1/28/2019 11:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901353-12 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2803	KDK	01/28/2019	01/28/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 88.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2810	JTD	01/28/2019	01/29/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 96.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.03		pH Units	1	B9A2806	OLAB	01/28/2019	01/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.194	0.00500	mmhos/cm	"	B9A2807	OLAB	"	"	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9A2810 - EPA 5030 (soil)

Blank (B9A2810-BLK1)

Prepared: 01/28/2019 Analyzed: 01/28/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9A2810 - EPA 5030 (soil)

LCS (B9A2810-BS1)

Prepared: 01/28/2019 Analyzed: 01/28/2019

Benzene	0.110	0.002	mg/kg	0.100		110	77.1-124			
Toluene	0.104	0.002	"	0.100		104	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.213	0.004	"	0.200		107	76.6-124			
o-Xylene	0.107	0.002	"	0.100		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9A2810 - EPA 5030 (soil)

Matrix Spike (B9A2810-MS1)	Source: Y901350-02			Prepared: 01/28/2019 Analyzed: 01/28/2019						
Benzene	0.122	0.002	mg/kg	0.100	ND	122	71.8-126			
Toluene	0.113	0.002	"	0.100	ND	113	65.1-130			
Ethylbenzene	0.116	0.002	"	0.100	ND	116	62.2-130			
m,p-Xylene	0.233	0.004	"	0.200	ND	117	46.5-137			
o-Xylene	0.117	0.002	"	0.100	ND	117	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9A2810 - EPA 5030 (soil)

Matrix Spike Dup (B9A2810-MSD1)	Source: Y901350-02			Prepared: 01/28/2019 Analyzed: 01/28/2019						
Benzene	0.115	0.002	mg/kg	0.100	ND	115	71.8-126	6.16	11.3	
Toluene	0.107	0.002	"	0.100	ND	107	65.1-130	5.36	15.4	
Ethylbenzene	0.112	0.002	"	0.100	ND	112	62.2-130	3.50	19.6	
m,p-Xylene	0.224	0.004	"	0.200	ND	112	46.5-137	3.90	19.2	
o-Xylene	0.113	0.002	"	0.100	ND	113	54.2-134	3.85	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9A2803 - EPA 3580

Blank (B9A2803-BLK1)

Prepared: 01/28/2019 Analyzed: 01/28/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	41		"	50.0		81.8	59-131			

Blank (B9A2803-BLK2)

Prepared: 01/28/2019 Analyzed: 01/28/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		96.0	59-131			

LCS (B9A2803-BS1)

Prepared: 01/28/2019 Analyzed: 01/28/2019

Diesel (C10-C28)	967	50.0	mg/kg	1000		96.7	64-121			
Residual Range Organics (C28-C40)	962	200	"	1000		96.2	58-124			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

LCS (B9A2803-BS2)

Prepared: 01/28/2019 Analyzed: 01/28/2019

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	64-121			
Residual Range Organics (C28-C40)	988	200	"	1000		98.8	58-124			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

Matrix Spike (B9A2803-MS1)

Source: Y901343-01

Prepared: 01/28/2019 Analyzed: 01/28/2019

Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	53-125			
Residual Range Organics (C28-C40)	1060	200	"	1000	8.29	105	47-133			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

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 B9A2803 - EPA 3580										
Matrix Spike (B9A2803-MS1)		Source: Y901343-01			Prepared: 01/28/2019 Analyzed: 01/28/2019					
Surrogate: o-Terphenyl	50		mg/kg	50.0		101	59-131			
Matrix Spike (B9A2803-MS2)		Source: Y901350-02			Prepared: 01/28/2019 Analyzed: 01/28/2019					
Diesel (C10-C28)	962	50.0	mg/kg	1000	ND	96.2	53-125			
Residual Range Organics (C28-C40)	942	200	"	1000	5.79	93.6	47-133			
Surrogate: o-Terphenyl	48		"	50.0		95.4	59-131			
Matrix Spike Dup (B9A2803-MSD1)		Source: Y901343-01			Prepared: 01/28/2019 Analyzed: 01/28/2019					
Diesel (C10-C28)	991	50.0	mg/kg	1000	ND	99.1	53-125	3.20	20	
Residual Range Organics (C28-C40)	1060	200	"	1000	8.29	106	47-133	0.451	20	
Surrogate: o-Terphenyl	49		"	50.0		98.4	59-131			
Matrix Spike Dup (B9A2803-MSD2)		Source: Y901350-02			Prepared: 01/28/2019 Analyzed: 01/28/2019					
Diesel (C10-C28)	813	50.0	mg/kg	1000	ND	81.3	53-125	16.8	20	
Residual Range Organics (C28-C40)	814	200	"	1000	5.79	80.8	47-133	14.7	20	
Surrogate: o-Terphenyl	40		"	50.0		80.4	59-131			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89287809
 Project: KMG - Sekich 14-19

Classical Chemistry Parameters - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9A2806 - NO PREP										
Duplicate (B9A2806-DUP1)		Source: Y901349-04			Prepared: 01/28/2019 Analyzed: 01/28/2019					
pH	7.65		pH Units		7.68			0.391	25	
Batch B9A2807 - NO PREP										
Blank (B9A2807-BLK1)		Prepared: 01/28/2019 Analyzed: 01/28/2019								
Specific Conductance (EC)	0.00480	0.00500	mmhos/cm							
Duplicate (B9A2807-DUP1)		Source: Y901349-04			Prepared: 01/28/2019 Analyzed: 01/28/2019					
Specific Conductance (EC)	0.104	0.00500	mmhos/cm		0.0961			7.80	25	

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Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President