



## **Enhanced Bioremediation Phase Two Progress Report 1 Decker Lease - Skim Pits 1, and 22-18 2 Diamond Operating Inc.**

### **Introduction**

Tasman Geosciences, Inc. (Tasman), on behalf of Diamond Operating Inc. (Diamond), has prepared this Enhanced Bioremediation Progress Report as an addendum to the Form 27 submittal to the Colorado Oil and Gas Conservation Commission (COGCC) received 6/21/2016 (Document # 200439904) in relation to the Enhanced Bioremediation Land Treatment of impacted pit soils located at the Decker Lease (Site). The Site is situated approximately 1/2 mile east of the intersection of Washington County Roads U and 10 within Washington County, Colorado, as shown in Figure 1. The Site is surrounded by rangeland, and the Site legal description is the SW ¼ of the NE ¼ of Section 18, Township 4S, and Range 53W.

### **Phase One Field Activities**

During July, 2016 impacted soils were excavated and confirmation samples illustrated within Figure 2 were collected to confirm no soils exhibiting impacts above Table 910 standards remained. The excavation sidewalls were sloped and a ramp access was added to allow an escape pathway for wildlife. The excavation was surrounded by fencing which will remain until backfill is completed. With COGCC approval impacted soils were placed in the designated treatment area illustrated within the Decker Bioremediation Area Map – Figure 3 and graded to a maximum 1 foot thickness. The treatment area was gridded into 23 distinct 100 cy monitoring units based on the one foot depth of the impacted soil lift (Figure 3). Each monitoring unit was surveyed to record the location and unit extents for monitoring purposes. Sidewall and base confirmation sample results are included within Table 1 and a combined analytical report is attached as Exhibit A.

### **Phase Two Field Activities**

Phase Two Enhanced Bioremediation activities included an application of a bioenhancement agent (*Micro-Blaze® Emergency Liquid Spill Control*) which was performed August 25, 2016 and the repeated tilling of the soils. Tilling events consisted of heavy agricultural equipment using a three bottom plow to turn over soils to increase exposure to sun, air flow, wind, and precipitation events. Discing was performed to break up any soil clods and a blade has been used to level the surface. During the summer months, tilling events were performed bi-monthly, monthly tilling events are performed the other nine months. Eleven tilling events have been completed to date. On January 26, 2017, a 4-point composite treatment confirmation soil sample was collected from each 100 cy monitoring unit (MU) to assess post-treatment hydrocarbon concentrations following six months of Enhanced Bioremediation Treatment. Treatment confirmation sample results are included within Table 2 and a combined analytical report is attached as Exhibit A. A proposed remediation activities schedule is included below.



Confirmation composite samples were submitted to Summit Scientific Laboratory in Golden, Colorado for laboratory analyses of TPH-DRO and TPH-GRO which were identified as the main constituents of concern during characterization activities.

### **Phase Three Field Activities**

Phase Three Enhanced Bioremediation activities will include the backfill and compaction of successfully treated soils which exhibit concentrations below Table 910 standards. Subsequent to completion of remediation activities, the excavation and bioremediation treatment area will be re-contoured to match pre-existing conditions, disced to break up any soil clods, drill seeded, and straw crimped in order to be reclaimed in accordance with COGGC standards.

Diamond is proposing a Phase Two completion date of July 20, 2019, with backfill and final reclamation to occur within September 2019. Please see attached Proposed Remediation Schedule.

### **Conclusions**

In order to close Decker Pit 1 and Decker Pit 2, impacted soils were removed, sidewall and base confirmation samples were collected and a closure request including sample results was submitted under Remediation Project #8697. In order to address the impacted soils Diamond selected Enhanced Bioremediation described herein as the remediation approach. Soils that exhibit concentrations above Table 910 standards were removed and placed in the designated treatment area illustrated within the Decker Bioremediation Area Map – Figure 3 and graded to a maximum 1 foot thickness. Enhanced Bioremediation Land Treatment, confirmation sampling, and progress reporting will be performed based on the schedule below. Soils which exhibit concentrations below Table 910 standards will be returned to the excavation as backfill.

Please contact me at 303-854-7337 if you require additional information.

Sincerely,  
Tasman Geosciences, Inc.

A handwritten signature in blue ink, appearing to read 'Carter Peace', is written over a light blue horizontal line.

Carter Peace  
Environmental Scientist

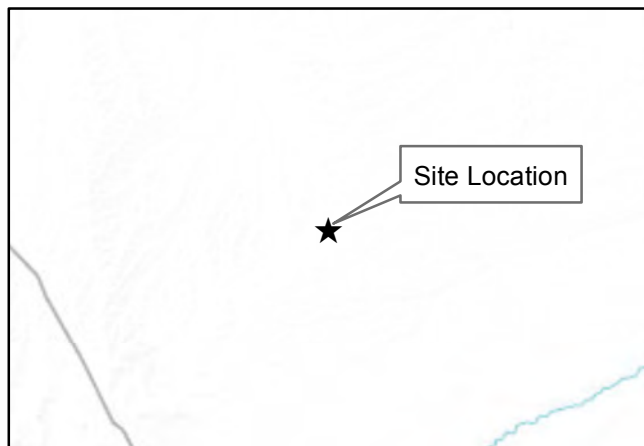
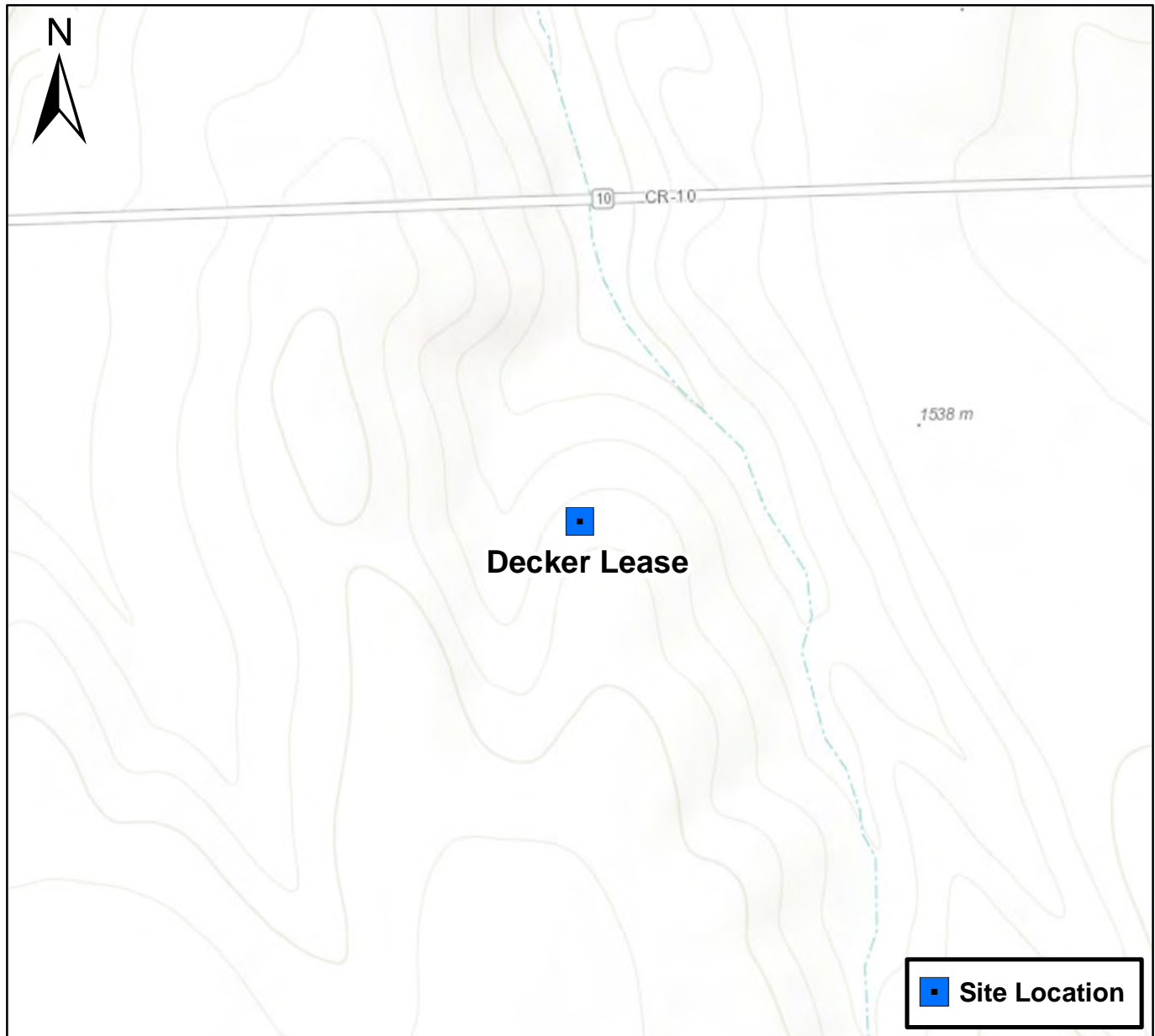
Attached:  
Proposed Remediation Schedule  
Figure 1 – Site Location Map  
Figure 2 – Confirmation Soil Sample Location Map  
Figure 3 – Decker Bioremediation Area Map  
Table 1 – Decker Skim Pits Soil Analytical Data Summary Table  
Exhibit A– Combined Laboratory Analytical Report

### Proposed Remediation Activities Schedule:

Task	Start Date	End Date	Notes
Phase Two Progress Report 1	2/6/2017	2/6/2017	
Tilling Event	2/15/2017	2/15/2017	
Tilling Event	3/15/2017	3/15/2017	
Tilling Event	4/15/2017	4/15/2017	
Tilling Event	5/15/2017	5/15/2017	
Tilling Event	6/15/2017	6/15/2017	
Tilling Event	6/30/2017	6/30/2017	
Microblaze Event	7/1/2017	7/1/2017	Weather dependent
Tilling Event	7/15/2017	7/15/2017	
Confirmation Sampling	7/20/2017	7/20/2017	
Phase Two Progress Report 2	7/30/2017	7/30/2017	
Tilling Event	7/30/2017	7/30/2017	If Necessary
Tilling Event	8/15/2017	8/15/2017	If Necessary
Tilling Event	8/30/2017	8/30/2017	If Necessary
Tilling Event	9/15/2017	9/15/2017	If Necessary
Tilling Event	10/15/2017	10/15/2017	If Necessary
Tilling Event	11/15/2017	11/15/2017	If Necessary
Tilling Event	12/15/2017	12/15/2017	If Necessary
Tilling Event	1/15/2018	1/15/2018	If Necessary
Confirmation Sampling	1/20/2018	1/20/2018	If Necessary
Phase Two Progress Report 3	1/30/2018	1/30/2018	If Necessary
Tilling Event	2/15/2018	2/15/2018	If Necessary
Tilling Event	3/15/2018	3/15/2018	If Necessary
Tilling Event	4/15/2018	4/15/2018	If Necessary
Tilling Event	5/15/2018	5/15/2018	If Necessary
Tilling Event	6/15/2018	6/15/2018	If Necessary
Tilling Event	6/30/2018	6/30/2018	If Necessary
Microblaze Event	7/20/2018	7/20/2018	If Necessary
Confirmation Sampling	7/20/2018	7/20/2018	If Necessary
Phase Two Progress Report 4	7/30/2018	7/30/2018	If Necessary
Tilling Event	7/30/2018	7/30/2018	If Necessary
Tilling Event	8/15/2018	8/15/2018	If Necessary

Tilling Event	8/30/2018	8/30/2018	If Necessary
Tilling Event	9/15/2018	9/15/2018	If Necessary
Tilling Event	10/15/2018	10/15/2018	If Necessary
Tilling Event	11/15/2018	11/15/2018	If Necessary
Tilling Event	12/15/2018	12/15/2018	If Necessary
Tilling Event	1/15/2019	1/15/2019	If Necessary
Confirmation Sampling	1/20/2019	1/20/2019	If Necessary
Phase Two Progress Report 5	1/30/2019	1/30/2019	If Necessary
Tilling Event	2/15/2019	2/15/2019	If Necessary
Tilling Event	3/15/2019	3/15/2019	If Necessary
Tilling Event	4/15/2019	4/15/2019	If Necessary
Tilling Event	5/15/2019	5/15/2019	If Necessary
Tilling Event	6/15/2019	6/15/2019	If Necessary
Tilling Event	6/30/2019	6/30/2019	If Necessary
Confirmation Sampling	7/1/2019	7/1/2019	If Necessary
Phase Two Final Report	7/20/2019	7/20/2019	
Phase Three Backfill	8/1/2019	8/10/2019	With COGCC Approval
Final Reclamation	9/1/2019	9/30/2019	

## Figures



0 750 1,500 Feet

## Figure 1

Site Location Map  
Decker Lease  
NWNE S18 T4S R53W  
Washington County, Colorado







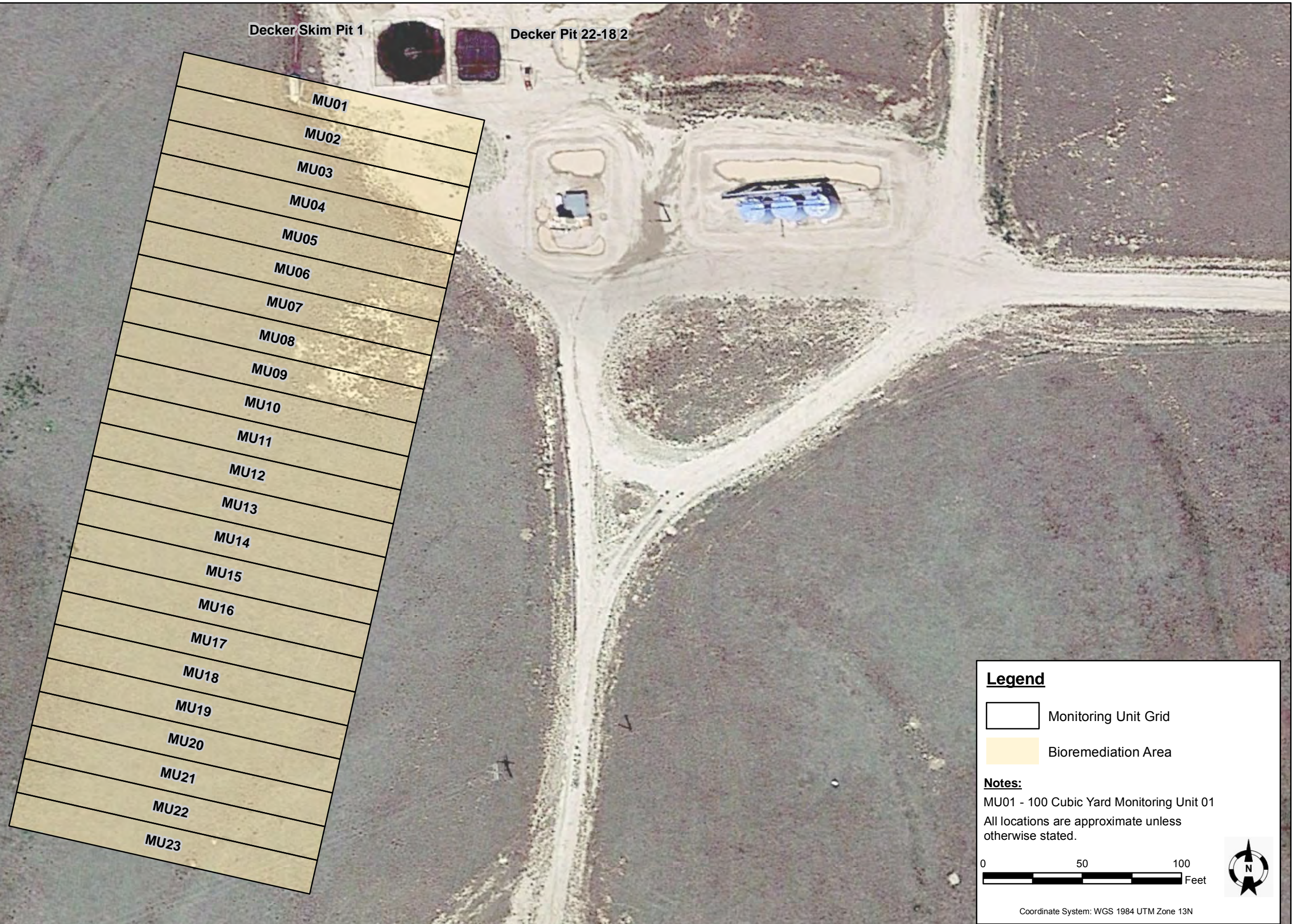
DATE:	July 20, 2016
DESIGNED BY:	C. Peace
DRAWN BY:	D. Arnold



Kerr-McGee Oil and Gas Onshore, LP  
Decker Lease  
SWNE, Section 18, Township 4 South, Range 53 West  
Washington County, Colorado

Confirmation Soil Sample Location  
Map





DATE:	June 6, 2016
DESIGNED BY:	C. Peace
DRAWN BY:	Z. Mahaffey



**Diamond Operating  
Decker Pits**  
SWNE, Section 18, Township 4 South, Range 53 West  
Washington County, Colorado

Bioremediation Area  
Map

Figure  
3



## Tables

**DIAMOND OPERATING  
DECKER SKIM PIT 1 & 22-18 2  
SOIL ANALYTICAL SUMMARY TABLE  
TABLE 1**

Sample ID	Date Sampled	PID Reading (ppm)	GRO (mg/kg)	DRO (mg/kg)	TPH <sup>(2)</sup> (mg/kg)
COGCC standards for soil (mg/kg) <sup>(1)</sup>			500	500	500
SS01 @ 24	7/13/2016	1.1	<0.500	<50	<50
SS02 @ 24	7/13/2016	0.5	<0.500	<50	<50
SS03 @ 24	7/13/2016	1.7	<0.500	<50	<50
SS04 @ 28	7/13/2016	1.9	<0.500	<50	<50
SS05 @ 28	7/13/2016	0.8	<0.500	<50	<50
SS06 @ 24	7/13/2016	7.6	3.75	52	55.75
SS07 @ 24	7/13/2016	48.6	23.7	240	263.7
SS08 @ 28	7/13/2016	2.2	9.77	<50	9.77
SS09 @ 24	7/13/2016	2.3	<0.500	<50	<50
SS10 @ 24	7/13/2016	55.6	2.8	350	352.8
SS11 @ 24	7/13/2016	5.5	<0.500	<50	<50
SS12 @ 24	7/13/2016	1.5	<0.500	<50	<50
SS13 @ 24	7/13/2016	1.6	<0.500	<50	<50
SS14 @ 12	7/13/2016	0.4	<0.500	<50	<50
SS15 @ 12	7/13/2016	0.1	<0.500	<50	<50



**DIAMOND OPERATING  
DECKER SKIM PIT 1 & 22-18 2  
SOIL ANALYTICAL SUMMARY TABLE  
TABLE 1**

SS16 @ 12	7/13/2016	0.2	<0.500	<50	<50
SS17 @ 12	7/13/2016	0.5	<0.500	<50	<50
SS18 @ 12	7/13/2016	0.9	<0.500	<50	<50
SS19 @ 12	7/13/2016	0.3	<0.500	<50	<50
SS20 @ 12	7/13/2016	0.1	<0.500	<50	<50
SS21 @ 12	7/13/2016	3.1	1.0	110	111
SS22 @ 12	7/13/2016	5.2	1.06	<50	1.06
SS23 @ 12	7/13/2016	4.6	0.916	<50	<50

**Notes:**

1. Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective March 16, 2016.

2. TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

PID = Photoionization detector

COGCC = Colorado Oil and Gas Conservation Commission

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

GRO = Total volatile petroleum hydrocarbons - gasoline range organics

DRO = Total extractable petroleum hydrocarbons - diesel range organics

mg/kg = Milligrams per kilogram

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

**TABLE 2**  
**DIAMOND OPERATING INC.**  
**DECKER BIOREMEDIATION**  
**SOIL ANALYTICAL RESULTS TABLE**

Sample ID	Date Sampled	PID Reading (ppm)	GRO (mg/kg)	DRO (mg/kg)	TPH <sup>(2)</sup> (mg/kg)
COGCC standards for soil (mg/kg) <sup>(1)</sup>			500	500	500
MU01	1/26/2017	1.0	1.76	11,000	11,001.76
MU02	1/26/2017	0.9	2.46	8,100	8,102.46
MU03	1/26/2017	0.7	1.99	11,000	11,001.99
MU04	1/26/2017	0.7	2.24	3,300	3,302.24
MU05	1/26/2017	0.1	1.20	7,300	7,301.20
MU06	1/26/2017	0.1	0.69	7,700	7,700.69
MU07	1/26/2017	0.5	0.60	9,500	9,500.60
MU08	1/26/2017	0.4	1.03	6,100	6,101.03
MU09	1/26/2017	0.3	0.91	8,800	8,800.91
MU10	1/26/2017	0.3	0.80	3,800	3,800.80
MU11	1/26/2017	0.5	1.30	8,100	8,101.30
MU12	1/26/2017	0.4	2.17	14,000	14,002.17
MU13	1/26/2017	0.3	0.51	5,400	5,400.51
MU14	1/26/2017	0.1	<0.500	4,800	4,800.00
MU15	1/26/2017	0.2	0.58	3,500	3,500.58



**TABLE 2**  
**DIAMOND OPERATING INC.**  
**DECKER BIOREMEDIATION**  
**SOIL ANALYTICAL RESULTS TABLE**

Sample ID	Date Sampled	PID Reading (ppm)	GRO (mg/kg)	DRO (mg/kg)	TPH <sup>(2)</sup> (mg/kg)
COGCC standards for soil (mg/kg) <sup>(1)</sup>			500	500	500
MU16	1/26/2017	0.1	<0.500	<b>5,500</b>	<b>5,500.00</b>
MU17	1/26/2017	0.3	<0.500	<b>1,200</b>	<b>1,200.00</b>
MU18	1/26/2017	0.3	<0.500	<b>4,100</b>	<b>4,100.00</b>
MU19	1/26/2017	0.5	2.37	<b>4,500</b>	<b>4,502.37</b>
MU20	1/26/2017	2.0	2.51	<b>3,800</b>	<b>3,802.51</b>
MU21	1/26/2017	0.1	<0.500	<50	<50
MU22	1/26/2017	0.8	3.29	<b>1,900</b>	<b>1,903.29</b>
MU23	1/26/2017	1.1	2.52	<b>2,300</b>	<b>2,302.52</b>

**Notes:**

1. Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective March 16, 2016.

2. TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

PID = Photoionization detector

COGCC = Colorado Oil and Gas Conservation Commission

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

GRO = Total volatile petroleum hydrocarbons - gasoline range organics

DRO = Total extractable petroleum hydrocarbons - diesel range organics

mg/kg = Milligrams per kilogram

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

## Exhibit A



# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 19, 2016

Carter Peace  
Tasman Geosciences  
6899 Pecos Street  
Denver, CO 80221  
RE: Decker

Enclosed are the results of analyses for samples received by Summit Scientific on 07/13/16 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
07/19/16 14:54

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@24	1607085-01	Soil	07/13/16 00:00	07/13/16 17:00
SS02@24	1607085-02	Soil	07/13/16 00:00	07/13/16 17:00
SS03@24	1607085-03	Soil	07/13/16 00:00	07/13/16 17:00
SS04@28	1607085-04	Soil	07/13/16 00:00	07/13/16 17:00
SS05@28	1607085-05	Soil	07/13/16 00:00	07/13/16 17:00
SS06@24	1607085-06	Soil	07/13/16 00:00	07/13/16 17:00
SS07@24	1607085-07	Soil	07/13/16 00:00	07/13/16 17:00
SS08@28	1607085-08	Soil	07/13/16 00:00	07/13/16 17:00
SS09@24	1607085-09	Soil	07/13/16 00:00	07/13/16 17:00
SS10@24	1607085-10	Soil	07/13/16 00:00	07/13/16 17:00
SS11@24	1607085-11	Soil	07/13/16 00:00	07/13/16 17:00
SS12@24	1607085-12	Soil	07/13/16 00:00	07/13/16 17:00
SS13@24	1607085-13	Soil	07/13/16 00:00	07/13/16 17:00
SS14@12	1607085-14	Soil	07/13/16 00:00	07/13/16 17:00
SS15@12	1607085-15	Soil	07/13/16 00:00	07/13/16 17:00
SS16@12	1607085-16	Soil	07/13/16 00:00	07/13/16 17:00
SS17@12	1607085-17	Soil	07/13/16 00:00	07/13/16 17:00
SS18@12	1607085-18	Soil	07/13/16 00:00	07/13/16 17:00
SS19@12	1607085-19	Soil	07/13/16 00:00	07/13/16 17:00
SS20@12	1607085-20	Soil	07/13/16 00:00	07/13/16 17:00
SS21@12	1607085-21	Soil	07/13/16 00:00	07/13/16 17:00
SS22@12	1607085-22	Soil	07/13/16 00:00	07/13/16 17:00
SS23@12	1607085-23	Soil	07/13/16 00:00	07/13/16 17:00

Summit Scientific

*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  
Denver CO, 80221

Project: Decker

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

# Summit Scientific

1607085.1

741 Corporate Circle Suite I - Golden, Colorado 80401  
303-277-9310 • 303-277-9531 Fax

Client: TASMAN / DIAMOND (INVOICING)  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Sampler Name: CJP

Page 1 of 3

Project Manager: C. PEACE  
E-Mail: \_\_\_\_\_  
Project Name: DECKER  
Project Number: \_\_\_\_\_

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:				Special Instructions
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	TPH GAO	TPH DRO	
SS01 @ 24	7/13/16													
SS02 @ 24														
SS03 @ 24														
SS04 @ 28														
SS05 @ 28														
SS06 @ 24														
SS07 @ 24														
SS08 @ 28														
SS09 @ 24														
SS10 @ 24	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Relinquished by:		Date/Time:		Received by:		Date/Time:		Turn Around Time (Check)				Notes:		
								Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>						
								24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						
								48 Hours <input type="checkbox"/>						
Relinquished by:		Date/Time:		Received in Lab by:		Date/Time:		Sample Integrity:						
								Temperature Upon Receipt: <u>8.9°C</u>						
								Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						

Relinquished by: [Signature]  
Date/Time: 7/13/16 17:03

Received in Lab by: [Signature]  
Date/Time: 7/13/16 17:01  
[Signature]  
Date/Time: 7/13/16 17:45

www.s2scientific.com

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[Signature]



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

741 Corporate Circle Suite I Golden, Colorado 80401  
303-277-9310 303-277-9531 Fax

Client: TASMAN / DIAMOND (INVOICE)  
Address:  
City/State/Zip:  
Phone: Fax:  
Sampler Name: CSP

Page 2 of 3

Project Manager: C. PEACE  
E-Mail:  
Project Name: DECKER  
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix		Analyze For:				Special Instructions	
				HCl	HNO <sub>3</sub>	None	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	TPH GRD	TPH DRG		
SS11 Q24	7/13/16		1			X		X						
SS12 Q24			1			X		X						
SS13 Q24														
SS14 Q12														
SS15 Q12														
SS16 Q12														
SS17 Q12														
SS18 Q12														
SS19 Q12														
SS20 Q12														
Relinquished by:				Date/Time:	Received by:				Date/Time:	Turn Around Time (Check)				Notes:  on ice
Relinquished by:				Date/Time:	Received by:				Date/Time:	Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>				
Relinquished by:				Date/Time:	Received in Lab by:				Date/Time:	Sample Integrity: Temperature Upon Receipt: 8.9°C Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

www.s2scientific.com



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
07/19/16 14:54

Summit Scientific

1607085.3

741 Corporate Circle Suite I • Golden, Colorado 80401  
303-277-9310 • 303-277-9531 Fax

Page 3 of 3

Client: TASMAN / DIAMOND (Invoicing)  
Address:  
City/State/Zip:  
Phone: Fax:  
Sampler Name: CTD

Project Manager: C. PEACE  
E-Mail:  
Project Name: DECEMBER  
Project Number:

				Preservative		Matrix		Analyze For:												
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)									Special Instructions
SS22W12	7/13/16		1			X			X			X	TPH GRU							
SS22W12			1			X			X			X	TPH DRU							
SS23W12			1			X			X			X								
Relinquished by:				Date/Time:		Received by:		Date/Time:		Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>										Notes:  on ice
Relinquished by:				Date/Time:		Received by:		Date/Time:												
Relinquished by:				Date/Time:		Received in Lab by:		Date/Time:		Sample Integrity: Temperature Upon Receipt: 8.9°C Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>										

7/13/16 1745

www.s2scientific.com  
Kareem H. Faruqi  
7/13/16 17:45

[www.s2scientific.com](http://www.s2scientific.com)

Summit Scientific

*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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

# Sample Receipt Checklist

S2 Work Order: 1607085

Client: Tasman / Diamond Client Project ID: Decker

Shipped Via: P/U Airbill #: \_\_\_\_\_  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
(Describe)

Cooler ID					
Temp (°C)	8.9				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ?		✓		
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact <sup>(1)</sup> ?	✓			
Was adequate sample volume provided <sup>(1)</sup> ?	✓			
If custody seals are present, are they intact <sup>(1)</sup> ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	✓			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	✓			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?				
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?			✓	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?			✓	
Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Nakita  
Custodian Printed Name

MS  
Signature or Initials of Custodian

7/13/16 1745  
Date/Time



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

**SS01@24**  
**1607085-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.4 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/14/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS02@24  
1607085-02 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.6 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/14/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS03@24  
1607085-03 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.6 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/14/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS04@28  
1607085-04 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/14/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS05@28  
1607085-05 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/14/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS06@24  
1607085-06 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	52	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	3.75	0.500	mg/kg	1	1607133	07/14/16	07/14/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS07@24  
1607085-07 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	240	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	23.7	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS08@28  
1607085-08 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	9.77	0.450	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS09@24  
1607085-09 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

**SS10@24**  
**1607085-10 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	350	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		131 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	2.81	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS11@24  
1607085-11 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		124 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS12@24  
1607085-12 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		117 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS13@24  
1607085-13 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		123 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS14@12  
1607085-14 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		128 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

**SS15@12**  
**1607085-15 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		120 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS16@12  
1607085-16 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS17@12  
1607085-17 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		128 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

**SS18@12**  
**1607085-18 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.7 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS19@12  
1607085-19 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		124 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS20@12  
1607085-20 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607128	07/14/16	07/15/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607133	07/14/16	07/15/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS21@12  
1607085-21 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	110	50	mg/kg	1	1607140	07/15/16	07/16/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.6 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	1.04	0.500	mg/kg	1	1607141	07/15/16	07/16/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS22@12  
1607085-22 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607140	07/15/16	07/16/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.6 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	1.06	0.500	mg/kg	1	1607141	07/15/16	07/16/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

SS23@12  
1607085-23 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607140	07/15/16	07/16/16	8015M	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.7 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	0.916	0.500	mg/kg	1	1607141	07/15/16	07/16/16	EPA 8260B	

Date Sampled: 07/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 1607128 - EPA 3550A**

**Blank (1607128-BLK1)**

Prepared: 07/14/16 Analyzed: 07/15/16

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 11.8 " 12.5 94.7 30-150

**LCS (1607128-BS1)**

Prepared: 07/14/16 Analyzed: 07/15/16

C10-C28 (DRO) 446 50 mg/kg 499 89.5 73-134

Surrogate: o-Terphenyl 11.4 " 12.5 91.4 30-150

**Matrix Spike (1607128-MS1)**

Source: 1607085-01

Prepared: 07/14/16 Analyzed: 07/15/16

C10-C28 (DRO) 484 50 mg/kg 485 11.8 97.4 50-148

Surrogate: o-Terphenyl 11.0 " 12.2 90.5 30-150

**Matrix Spike Dup (1607128-MSD1)**

Source: 1607085-01

Prepared: 07/14/16 Analyzed: 07/15/16

C10-C28 (DRO) 529 50 mg/kg 489 11.8 106 50-148 8.88 20

Surrogate: o-Terphenyl 11.3 " 12.3 92.1 30-150

**Batch 1607140 - EPA 3550A**

**Blank (1607140-BLK1)**

Prepared: 07/15/16 Analyzed: 07/16/16

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.7 " 12.5 102 30-150

**LCS (1607140-BS1)**

Prepared: 07/15/16 Analyzed: 07/16/16

C10-C28 (DRO) 605 50 mg/kg 499 121 73-134

Surrogate: o-Terphenyl 13.7 " 12.5 109 30-150

**Matrix Spike (1607140-MS1)**

Source: 1607085-21

Prepared: 07/15/16 Analyzed: 07/16/16

C10-C28 (DRO) 741 50 mg/kg 484 108 131 50-148

Surrogate: o-Terphenyl 14.7 " 12.1 121 30-150

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

Extractable Petroleum Hydrocarbons by 8015 - Quality Control  
Summit Scientific

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

Batch 1607140 - EPA 3550A

Matrix Spike Dup (1607140-MSD1)				Source: 1607085-21		Prepared: 07/15/16		Analyzed: 07/16/16		
C10-C28 (DRO)	728	50	mg/kg	497	108	125	50-148	1.84	20	
Surrogate: o-Terphenyl	15.0		"	12.5		120	30-150			

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch 1607133 - EPA 5030 Soil MS**

**Blank (1607133-BLK1)**

Prepared & Analyzed: 07/14/16

Gasoline Range Hydrocarbons	ND	0.500	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400	103	23-173				
Surrogate: Toluene-d8	0.0401		"	0.0400	100	20-170				
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400	102	21-167				

**LCS (1607133-BS1)**

Prepared & Analyzed: 07/14/16

Gasoline Range Hydrocarbons	2.83	0.500	mg/kg			30-150				
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400	101	23-173				
Surrogate: Toluene-d8	0.0426		"	0.0400	106	20-170				
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400	98.5	21-167				

**Matrix Spike (1607133-MS1)**

Source: 1607085-01

Prepared & Analyzed: 07/14/16

Gasoline Range Hydrocarbons	3.07	0.500	mg/kg		ND	30-150				
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0378	107	23-173				
Surrogate: Toluene-d8	0.0387		"	0.0378	102	20-170				
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0378	101	21-167				

**Matrix Spike Dup (1607133-MSD1)**

Source: 1607085-01

Prepared & Analyzed: 07/14/16

Gasoline Range Hydrocarbons	3.23	0.500	mg/kg		ND	30-150	5.14	20		
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0382	106	23-173				
Surrogate: Toluene-d8	0.0383		"	0.0382	100	20-170				
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0382	98.3	21-167				

**Batch 1607141 - EPA 5030 Soil MS**

**Blank (1607141-BLK1)**

Prepared: 07/15/16 Analyzed: 07/16/16

Gasoline Range Hydrocarbons	ND	0.500	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.0363		"	0.0400	90.8	23-173				
Surrogate: Toluene-d8	0.0400		"	0.0400	100	20-170				
Surrogate: 4-Bromofluorobenzene	0.0373		"	0.0400	93.3	21-167				

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
07/19/16 14:54

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch 1607141 - EPA 5030 Soil MS**

**LCS (1607141-BS1)**

Prepared: 07/15/16 Analyzed: 07/16/16

Gasoline Range Hydrocarbons	2.86	0.500	mg/kg				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0369		"	0.0400		92.3	23-173			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0375		"	0.0400		93.8	21-167			

**Matrix Spike (1607141-MS1)**

Source: 1607085-21

Prepared: 07/15/16 Analyzed: 07/16/16

Gasoline Range Hydrocarbons	2.78	0.500	mg/kg		1.04		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0400		94.4	23-173			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	21-167			

**Matrix Spike Dup (1607141-MSD1)**

Source: 1607085-21

Prepared: 07/15/16 Analyzed: 07/16/16

Gasoline Range Hydrocarbons	2.78	0.500	mg/kg		1.04		30-150	0.100	20	
Surrogate: 1,2-Dichloroethane-d4	0.0368		"	0.0400		92.0	23-173			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	21-167			

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
07/19/16 14:54

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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Summit Scientific

*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.*

A handwritten signature in black ink, appearing to be 'MSM'.

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 01, 2017

Carter Peace  
Tasman Geosciences  
6899 Pecos Street  
Denver, CO 80221  
RE: Decker

Enclosed are the results of analyses for samples received by Summit Scientific on 01/26/17 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
02/01/17 14:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MU01	1701201-01	Soil	01/26/17 00:00	01/26/17 16:40
MU02	1701201-02	Soil	01/26/17 00:00	01/26/17 16:40
MU03	1701201-03	Soil	01/26/17 00:00	01/26/17 16:40
MU04	1701201-04	Soil	01/26/17 00:00	01/26/17 16:40
MU05	1701201-05	Soil	01/26/17 00:00	01/26/17 16:40
MU06	1701201-06	Soil	01/26/17 00:00	01/26/17 16:40
MU07	1701201-07	Soil	01/26/17 00:00	01/26/17 16:40
MU08	1701201-08	Soil	01/26/17 00:00	01/26/17 16:40
MU09	1701201-09	Soil	01/26/17 00:00	01/26/17 16:40
MU10	1701201-10	Soil	01/26/17 00:00	01/26/17 16:40
MU11	1701201-11	Soil	01/26/17 00:00	01/26/17 16:40
MU12	1701201-12	Soil	01/26/17 00:00	01/26/17 16:40
MU13	1701201-13	Soil	01/26/17 00:00	01/26/17 16:40
MU14	1701201-14	Soil	01/26/17 00:00	01/26/17 16:40
MU15	1701201-15	Soil	01/26/17 00:00	01/26/17 16:40
MU16	1701201-16	Soil	01/26/17 00:00	01/26/17 16:40
MU17	1701201-17	Soil	01/26/17 00:00	01/26/17 16:40
MU18	1701201-18	Soil	01/26/17 00:00	01/26/17 16:40
MU19	1701201-19	Soil	01/26/17 00:00	01/26/17 16:40
MU20	1701201-20	Soil	01/26/17 00:00	01/26/17 16:40
MU21	1701201-21	Soil	01/26/17 00:00	01/26/17 16:40
MU22	1701201-22	Soil	01/26/17 00:00	01/26/17 16:40
MU23	1701201-23	Soil	01/26/17 00:00	01/26/17 16:40

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
02/01/17 14:20

### Case Narrative

Client: Tasman Geosciences

Project: Decker

Report Number 1701201

Per client request via email dated 2/1/17 from Carter Peace, the sample ID in this report has been changed in the following manner:

MV to MU

---

Summit Scientific

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A handwritten signature in black ink, appearing to be 'MSM'.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

# Summit Scientific

1701201.1

741 Corporate Circle Suite I Golden, Colorado 80401  
303-277-9310 303-374-5933 Fax

Page 1 of 3

Client: Tasman / Diamond (Invoice)

Address: 6899 Pecos St, Unit C

City/State/Zip: Denver, CO 80221

Phone: 303-447-1228 Fax: -

Sampler Name: Alex C.

Project Manager: Carter Peace

E-Mail: CPeace@tasman-geo.com

Project Name: DECKER

Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix			Analyze For:				Special Instructions
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO	GR0	
MV01	1/26/17													
MV02														
MV03														
MV04														
MV05														
MV06														
MV07														
MV08														
MV09														
MV10														
Relinquished by: <u>Alex C.</u>		Date/Time: <u>16:40 1/26/17</u>		Received by: <u>[Signature]</u>		Date/Time: <u>1/26/17 16:40</u>		Turn Around Time (Check)				Notes:		
								Same Day <input type="checkbox"/>				72 Hours <input type="checkbox"/>		
								24 Hours <input type="checkbox"/>				Standard <input checked="" type="checkbox"/>		
								48 Hours <input type="checkbox"/>						
Relinquished by: <u>[Signature]</u>		Date/Time: <u>1/26/17 1710</u>		Received in Lab by:		Date/Time:		Sample Integrity:				Temperature Upon Receipt: <u>3.5°C</u>		
								Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Invoice for Paul on ice		

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Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

# Summit Scientific

1701201.2

741 Corporate Circle Suite I Golden, Colorado 80401  
303-277-9310 • 303-374-5933 Fax

Page 2 of 3

Client: Tasman / Diamond (Invoice)

Address: 6899 Pecos St. Unit C

City/State/Zip: Denver, CO, 80221

Phone: 303-487-1228 Fax:

Sampler Name: Paul C.

Project Manager: Carter Peace

E-Mail: CPeace@tasman-geo.com

Project Name: Decker

Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)				
MV11	1/24/17														
MV12															
MV13															
MV14															
MV15															
MV16															
MV17															
MV18															
MV19															
MV20															
Relinquished by: <u>Wm Chappin</u> Date/Time: <u>1/24/17 10:40</u>				Received by: <u>MA</u> Date/Time: <u>1/26/17 1640</u>				Turn Around Time (Check)				Notes:			
Relinquished by: <u>MA</u> Date/Time: <u>1/26/17 1710</u>				Received by: <u>MA</u> Date/Time: <u>1/26/17 1640</u>				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>				Provia for Paul on ice			
								24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>							
Relinquished by: <u>MA</u> Date/Time: <u>1/26/17 1710</u>				Received in Lab by: <u>MA</u> Date/Time: <u>1/26/17 1640</u>				Sample Integrity: <u>3.5°C</u>							
								Temperature Upon Receipt: <u>3.5°C</u>							
								Inact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

# Summit Scientific

1701201.3

741 Corporate Circle Suite 1 Golden, Colorado 80401  
303-277-9310 303-374-5933 Fax

Client: Tasman / Dickman (Invoice)

Page 3 of 3

Address: 6899 Pecos St, Unit C

City/State/Zip: Denver CO, 80221

Phone: 303-447-1228 Fax:

Sampler Name: Paul L.

Project Manager: Carter Peace

E-Mail: CPeace@tasman-geo.com

Project Name: Decker

Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:				Special Instructions
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Air - Canister Serial #	Other (Specify)				
MV 21	1/26/17													
MV 22														
MV 23														
Relinquished by: <u>Paul L.</u>		Date/Time: <u>1/26/17 10:40</u>		Received by: <u>MA</u>		Date/Time: <u>1/26/17 10:40</u>		Turn Around Time (Check)				Notes:		
Relinquished by: <u>MA</u>		Date/Time: <u>1/26/17 1710</u>		Received by:		Date/Time:		Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/>				Invoice for Paul on 10		
Relinquished by:		Date/Time:		Received in Lab by:		Date/Time:		Sample Integrity: Temperature Upon Receipt: <u>3.5°C</u>						
								Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

# Sample Receipt Checklist

S2 Work Order: 1701201  
Client: Tasman / Diamond Client Project ID: Decker  
Shipped Via: P/U (UPS, FedEx, Hand Delivered, Pick-up, etc.) Airbill #: \_\_\_\_\_  
Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_ (Describe)

Cooler ID					
Temp (°C)	3.5				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Nakita  
Custodian Printed Name

MA  
Signature or Initials of Custodian

1/26/17 1710  
Date/Time



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU01**  
**1701201-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	11000	50	mg/kg	1	1701287	01/30/17	01/30/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		1280 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	1.76	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU02**  
**1701201-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	8100	50	mg/kg	1	1701287	01/30/17	01/30/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		1150 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	2.46	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU03**  
**1701201-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>11000</b>	50	mg/kg	1	1701287	01/30/17	01/30/17	8015M	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		1430 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Gasoline Range Hydrocarbons</b>	<b>1.99</b>	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93.4 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.1 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU04**  
**1701201-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	3300	50	mg/kg	1	1701287	01/30/17	01/30/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		300 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	2.24	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU05**  
**1701201-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	7300	50	mg/kg	1	1701287	01/30/17	01/30/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		1040 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	1.20	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU06**  
**1701201-06 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	7700	50	mg/kg	1	1701287	01/30/17	01/30/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		996 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	0.688	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU07**  
**1701201-07 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	9500	50	mg/kg	1	1701287	01/30/17	01/30/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		1390 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	0.595	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU08**  
**1701201-08 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	6100	50	mg/kg	1	1701287	01/30/17	01/30/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		944 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	1.03	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU09**  
**1701201-09 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	8800	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		904 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	0.913	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	21-167		"	"	"	"	

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6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU10**  
**1701201-10 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	3800	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		389 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	0.797	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

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Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU11**  
**1701201-11 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	8100	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		1050 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	1.30	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		89.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	21-167		"	"	"	"	

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Project Manager: Carter Peace

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**MU12**  
**1701201-12 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	14000	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		1360 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	2.17	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	21-167		"	"	"	"	

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**MU13**  
**1701201-13 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	5400	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		429 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	0.512	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

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**MU14**  
**1701201-14 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	4800	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		549 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	21-167		"	"	"	"	

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**MU15**  
**1701201-15 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	3500	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		357 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	0.576	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

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**MU16**  
**1701201-16 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	5500	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		719 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

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Project Manager: Carter Peace

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**MU17**  
**1701201-17 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1200	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		75.5 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

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Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU18**  
**1701201-18 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	4100	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		572 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	21-167		"	"	"	"	

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Project Number: [none]  
Project Manager: Carter Peace

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02/01/17 14:20

**MU19**  
**1701201-19 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	4500	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		659 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	2.37	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

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02/01/17 14:20

**MU20**  
**1701201-20 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	3800	50	mg/kg	1	1701287	01/30/17	01/31/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		487 %	30-150		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	2.51	0.500	mg/kg	1	1701289	01/30/17	01/31/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.7 %	21-167		"	"	"	"	

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Project Manager: Carter Peace

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02/01/17 14:20

**MU21**  
**1701201-21 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1701286	01/30/17	01/31/17	8015M	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.3 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1701288	01/30/17	01/30/17	EPA 8260B	

Date Sampled: 01/26/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		82.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

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02/01/17 14:20

**MU22**  
**1701201-22 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1900	50	mg/kg	1	1701286	01/30/17	01/31/17	8015M	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		46.0 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	3.29	0.500	mg/kg	1	1701288	01/30/17	01/30/17	EPA 8260B	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	21-167		"	"	"	"	

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Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**MU23**  
**1701201-23 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2300	50	mg/kg	1	1701286	01/30/17	01/31/17	8015M	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		38.8 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	2.52	0.500	mg/kg	1	1701288	01/30/17	01/30/17	EPA 8260B	

Date Sampled: **01/26/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

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Project Manager: Carter Peace

**Reported:**  
02/01/17 14:20

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 1701286 - EPA 3550A**

**Blank (1701286-BLK1)**

Prepared: 01/30/17 Analyzed: 01/31/17

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	11.2		"	12.5		89.7	30-150			

**LCS (1701286-BS1)**

Prepared: 01/30/17 Analyzed: 01/31/17

C10-C28 (DRO)	514	50	mg/kg	499		103	73-134			
Surrogate: o-Terphenyl	12.5		"	12.5		100	30-150			

**Matrix Spike (1701286-MS1)**

Source: 1701201-21

Prepared: 01/30/17 Analyzed: 01/31/17

C10-C28 (DRO)	531	50	mg/kg	499	45.0	97.3	50-148			
Surrogate: o-Terphenyl	12.3		"	12.5		98.8	30-150			

**Matrix Spike Dup (1701286-MSD1)**

Source: 1701201-21

Prepared: 01/30/17 Analyzed: 01/31/17

C10-C28 (DRO)	561	50	mg/kg	499	45.0	103	50-148	5.59	20	
Surrogate: o-Terphenyl	13.1		"	12.5		105	30-150			

**Batch 1701287 - EPA 3550A**

**Blank (1701287-BLK1)**

Prepared & Analyzed: 01/30/17

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	11.3		"	12.5		90.6	30-150			

**LCS (1701287-BS1)**

Prepared & Analyzed: 01/30/17

C10-C28 (DRO)	542	50	mg/kg	499		109	73-134			
Surrogate: o-Terphenyl	15.9		"	12.5		127	30-150			

**Matrix Spike (1701287-MS1)**

Source: 1701201-01

Prepared & Analyzed: 01/30/17

C10-C28 (DRO)	14500	50	mg/kg	499	11400	621	50-148			QM-07
Surrogate: o-Terphenyl	201		"	12.5		NR	30-150			S-02

Summit Scientific

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  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

Extractable Petroleum Hydrocarbons by 8015 - Quality Control  
Summit Scientific

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

Batch 1701287 - EPA 3550A

Matrix Spike Dup (1701287-MSD1)			Source: 1701201-01			Prepared & Analyzed: 01/30/17				
C10-C28 (DRO)	16200	50	mg/kg	499	11400	947	50-148	10.6	20	QM-07
Surrogate: o-Terphenyl	227		"	12.5		NR	30-150			S-02

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch 1701288 - EPA 5030 Soil MS**

**Blank (1701288-BLK1)**

Prepared & Analyzed: 01/30/17

Gasoline Range Hydrocarbons	ND	0.500	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.0352		"	0.0400		88.0	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	21-167			

**LCS (1701288-BS1)**

Prepared & Analyzed: 01/30/17

Gasoline Range Hydrocarbons	0.856	0.500	mg/kg				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0331		"	0.0400		82.6	23-173			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0426		"	0.0400		107	21-167			

**Matrix Spike (1701288-MS1)**

Source: 1701202-01

Prepared & Analyzed: 01/30/17

Gasoline Range Hydrocarbons	0.748	0.500	mg/kg		0.546		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0333		"	0.0400		83.2	23-173			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	21-167			

**Matrix Spike Dup (1701288-MSD1)**

Source: 1701202-01

Prepared & Analyzed: 01/30/17

Gasoline Range Hydrocarbons	0.711	0.500	mg/kg		0.546		30-150	5.12	20	
Surrogate: 1,2-Dichloroethane-d4	0.0363		"	0.0400		90.8	23-173			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400		106	21-167			

**Batch 1701289 - EPA 5030 Soil MS**

**Blank (1701289-BLK1)**

Prepared: 01/30/17 Analyzed: 01/31/17

Gasoline Range Hydrocarbons	ND	0.500	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.3	23-173			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	21-167			

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

Reported:  
02/01/17 14:20

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch 1701289 - EPA 5030 Soil MS**

**LCS (1701289-BS1)**

Prepared: 01/30/17 Analyzed: 01/31/17

Gasoline Range Hydrocarbons	0.853	0.500	mg/kg				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0277		"	0.0400		69.2	23-173			
Surrogate: Toluene-d8	0.0453		"	0.0400		113	20-170			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	21-167			

**Matrix Spike (1701289-MS1)**

Source: 1701201-02

Prepared: 01/30/17 Analyzed: 01/31/17

Gasoline Range Hydrocarbons	1.44	0.500	mg/kg		2.46		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0400		93.1	23-173			
Surrogate: Toluene-d8	0.0440		"	0.0400		110	20-170			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	21-167			

**Matrix Spike Dup (1701289-MSD1)**

Source: 1701201-02

Prepared: 01/30/17 Analyzed: 01/31/17

Gasoline Range Hydrocarbons	2.07	0.500	mg/kg		2.46		30-150	35.6	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.7	23-173			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	21-167			

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Decker  
Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
02/01/17 14:20

### Notes and Definitions

S-02      The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis

RPD      Relative Percent Difference

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Summit Scientific

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