

Tables

TABLE 1
FOUNDATION ENERGY
MD DAVISON 27-4
SOIL EXCAVATION ANALYTICAL DATA

Sample ID	Date Sampled	Results Date	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	TPH ⁽²⁾ (mg/kg)
MW1 @ 3.5'	10/24/2014	10/29/2014	NC	<0.10	<10	<10	<10	<50	<50	<50
MW2 @ 3.5'	10/24/2014	10/29/2014	NC	<0.10	<10	<10	<10	<50	<50	<50
MW3 @ 3.5'	10/24/2014	10/29/2014	NC	<0.10	<10	<10	<10	<50	<50	<50
MW4 @ 3.5'	10/24/2014	10/29/2014	NC	6.6	<10	<10	18	970	1000	1970
MW5 @ 3.5'	10/24/2014	10/29/2014	NC	<0.10	<10	<10	<10	<50	<50	<50
MW6 @ 8'	10/24/2014	10/29/2014	NC	<0.10	<10	<10	<10	160	<50	160
N01 @ 3'	3/17/2015	3/18/2015	53.3	<0.10	<10	<10	<10	<50	<50	<50
S01 @ 3'	3/17/2015	3/18/2015	13.3	<0.10	<10	<10	<10	<50	<50	<50
W01 @ 3'	3/17/2015	3/18/2015	0.9	<0.10	<10	<10	<10	<50	<50	<50
B01 @ 5'	3/17/2015	3/18/2015	1076	0.36	<10	<10	14	1100	540	1,640
S02 @ 4'	3/24/2015	3/25/2015	9	<0.10	<10	<10	<10	<50	<50	<50
B01 @ 8'	3/24/2015	3/25/2015	731	<0.10	<10	<10	<10	<50	<50	<50
B02 @ 8'	3/24/2015	3/25/2015	106.3	<0.10	<10	<10	<10	<50	<50	<50
N02 @ 6'	3/30/2015	3/31/2015	1124	<0.10	<10	<10	<10	350	68	418
N03 @ 6'	3/30/2015	3/31/2015	4.3	<0.10	<10	<10	<10	<50	<50	<50
N04 @ 6'	3/30/2015	3/31/2015	2.0	<0.10	<10	<10	<10	<50	<50	<50
N05 @ 6'	3/30/2015	3/31/2015	1.6	<0.10	<10	<10	<10	<50	<50	<50
N06 @ 6'	3/30/2015	3/31/2015	21.2	<0.10	<10	<10	<10	<50	<50	<50
S03 @ 6'	3/30/2015	3/31/2015	1.9	<0.10	<10	<10	<10	<50	<50	<50
S04 @ 6'	3/30/2015	3/31/2015	2.1	<0.10	<10	<10	<10	<50	<50	<50
S05 @ 6'	3/30/2015	3/31/2015	155.1	<0.10	<10	<10	<10	110	660	770
S06 @ 6'	3/30/2015	3/31/2015	4.9	<0.10	<10	<10	<10	<50	<50	<50
W01 @ 6'	3/30/2015	3/31/2015	1.1	<0.10	<10	<10	<10	<50	<50	<50
W02 @ 6'	3/31/2015	4/1/2015	0.9	<0.10	<10	<10	<10	<50	<50	<50
E02 @ 6'	3/31/2015	4/1/2015	1.2	<0.10	<10	<10	<10	<50	<50	<50
S07 @ 6'	3/31/2015	4/1/2015	1.5	<0.10	<10	<10	<10	<50	<50	<50
COGCC standards for soil ⁽¹⁾				0.17	85	100	175	500	500	500

Notes:

- Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective February 1, 2014.
- TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

Red values indicate an exceedance of the COGCC soil standards.

< - Analytical result is less than the indicated laboratory reporting limit

GRO - Gasoline range organics

DRO - Diesel range organics

mg/kg - Milligrams per kilogram

ppm - Parts per million

NC - Not collected

TABLE 2
FOUNDATION ENERGY
MD DAVISON 27-4
GROUNDWATER AND SURFACE WATER ANALYTICAL DATA

Sample ID	Date Sampled	Results Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
SS01 ⁽¹⁾	10/24/2014	10/28/2014	<1.0	<1.0	<1.0	<1.0
SS02 ⁽¹⁾	10/24/2014	10/28/2014	<1.0	<1.0	<1.0	<1.0
MW-4	10/30/2014	11/8/2014	2.2	<1.0	2.4	13
MW-5	10/30/2014	11/8/2014	<1.0	<1.0	<1.0	<1.0
GW01	3/30/2015	4/7/2015	1.5	<1.0	1.1	4.6
MW-1	3/30/2015	4/7/2015	<1.0	<1.0	<1.0	<1.0
MW-2	3/30/2015	4/7/2015	<1.0	<1.0	<1.0	<1.0
MW-3	3/30/2015	4/7/2015	<1.0	<1.0	<1.0	<1.0
MW-5	3/30/2015	4/7/2015	<1.0	<1.0	<1.0	<1.0
MW-6	3/30/2015	4/7/2015	<1.0	<1.0	<1.0	<1.0
COGCC Table 910-1 Groundwater Standard (ug/L) ⁽²⁾			5	560	700	1,400

Notes:

1. SS Indicates surface water samples.

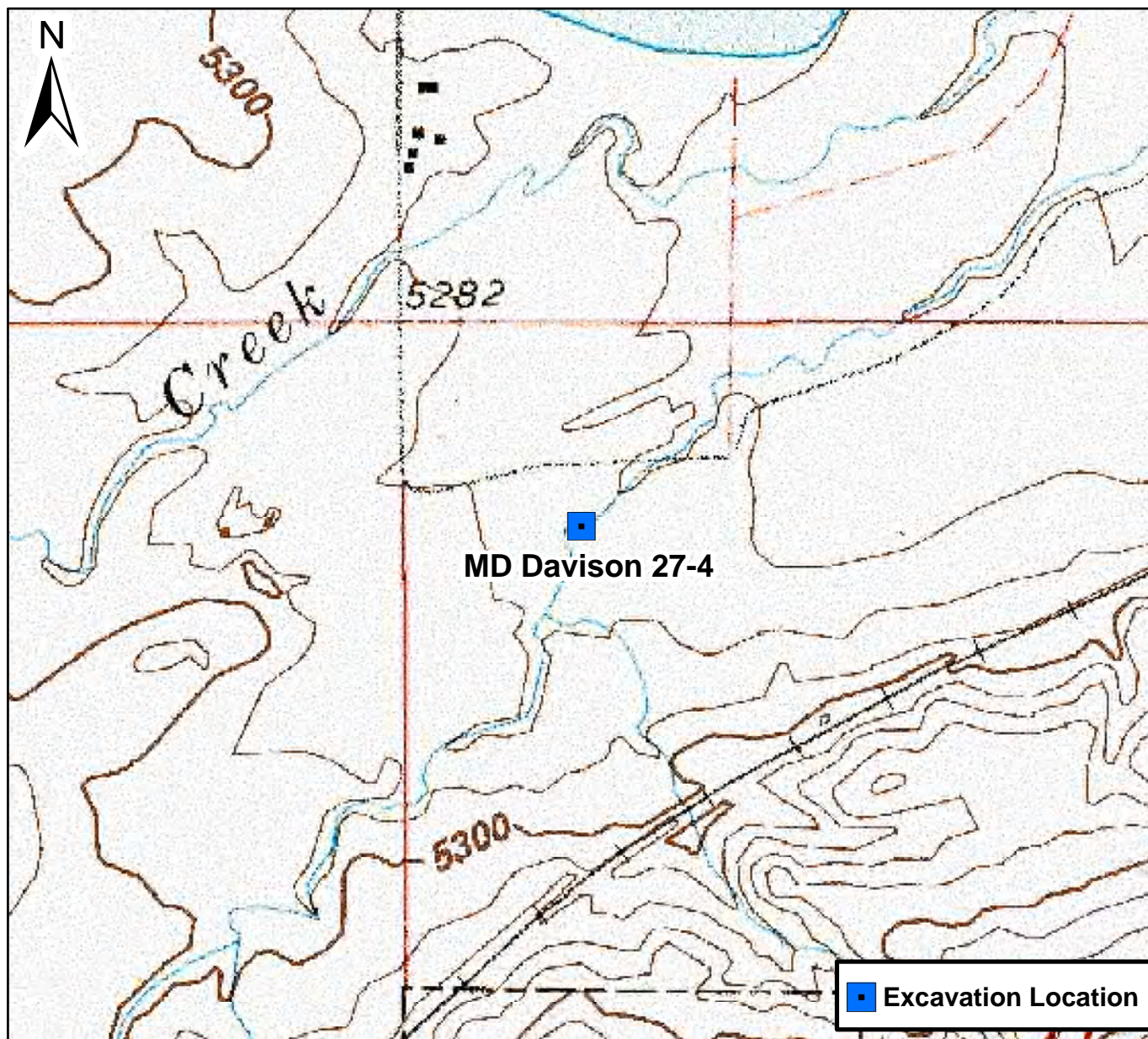
2. Groundwater standards referenced from 2 CCR 404-1, Table 910-1, effective February 1, 2014.

ug/L = Micrograms per liter

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

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

Figures

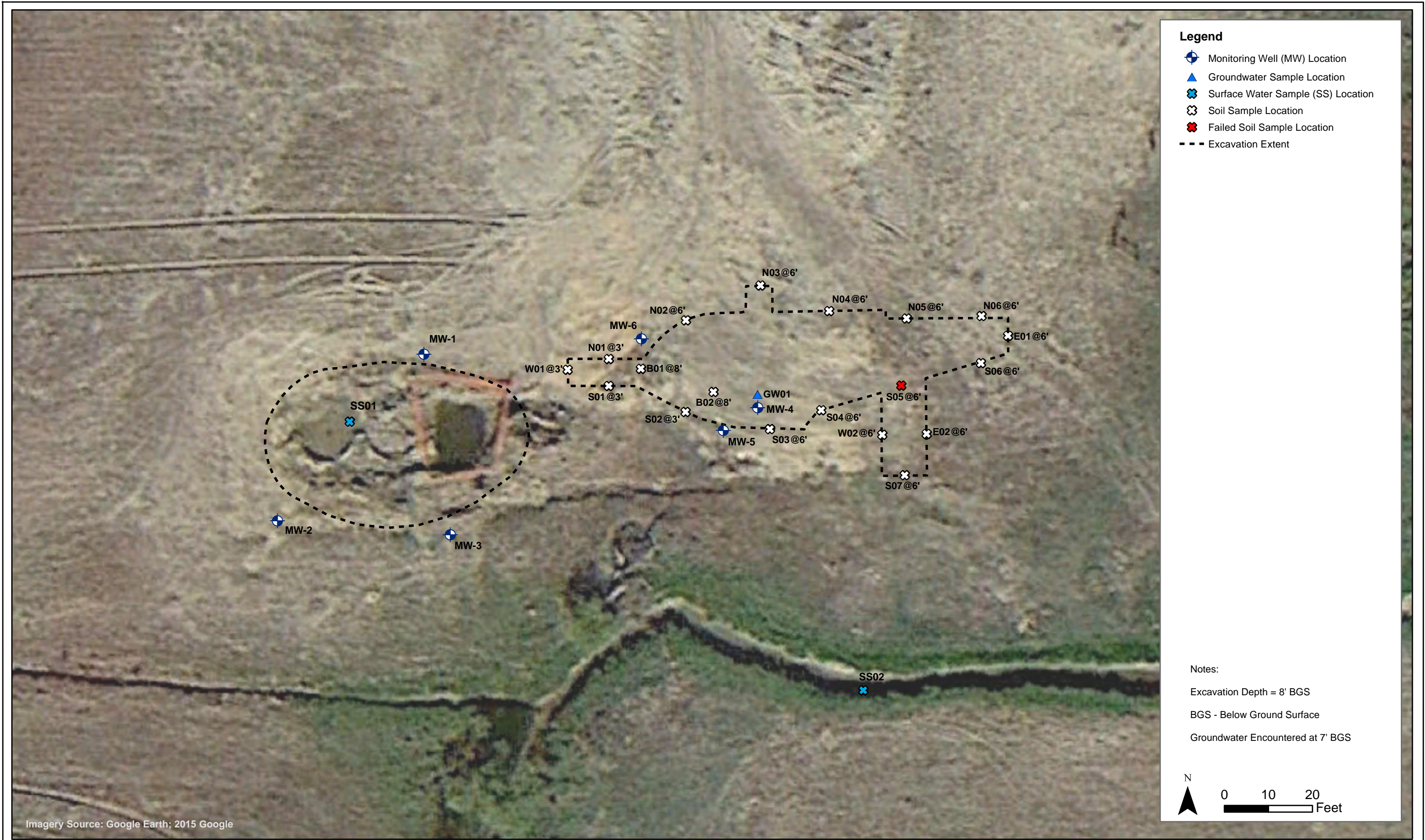


0 750 1,500 Feet

Figure 1

Site Location Map
MD Davison 27-4
NWNW S27 T1S R69W
Boulder County, Colorado





DATE:	March 2015
DESIGNED BY:	C. Peace
DRAWN BY:	D. Arnold



Tasman Geosciences Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

Foundation Energy Management
MD Davison 27-4
NWNW, Section 27, Township 1 South, Range 69 West
Boulder County, Colorado

Final
Excavation Overview
Map

Figure
2

Attachment A

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 15, 2015

Carter Peace
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: MD DAVISON 27-4

Enclosed are the results of analyses for samples received by Summit Scientific on 03/17/15 17:55-10/24/14 17:45. 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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1@3.5	1410232-01	Soil	10/24/14 09:35	10/24/14 17:45
MW2@3.5	1410232-02	Soil	10/24/14 11:00	10/24/14 17:45
MW3@3.5	1410232-03	Soil	10/24/14 11:20	10/24/14 17:45
MW4@3.5	1410232-04	Soil	10/24/14 12:00	10/24/14 17:45
MW5@3.5	1410232-05	Soil	10/24/14 13:00	10/24/14 17:45
MW6@8	1410232-06	Soil	10/24/14 14:00	10/24/14 17:45
N01@3'	1503139-01	Soil	03/17/15 00:00	03/17/15 17:55
S01@3'	1503139-02	Soil	03/17/15 00:00	03/17/15 17:55
W01@3'	1503139-03	Soil	03/17/15 00:00	03/17/15 17:55
B01@5'	1503139-04	Soil	03/17/15 00:00	03/17/15 17:55
S02@4	1503204-01	Soil	03/24/15 00:00	03/24/15 18:50
B01@8	1503213-01	Soil	03/24/15 00:00	03/25/15 11:00
B02@8	1503213-02	Soil	03/24/15 00:00	03/25/15 11:00
N02@6'	1503247-01	Soil	03/30/15 00:00	03/30/15 19:48
N03@6'	1503247-02	Soil	03/30/15 00:00	03/30/15 19:48
N04@6'	1503247-03	Soil	03/30/15 00:00	03/30/15 19:48
N05@6'	1503247-04	Soil	03/30/15 00:00	03/30/15 19:48
S04@6'	1503247-05	Soil	03/30/15 00:00	03/30/15 19:48
S03@6'	1503247-06	Soil	03/30/15 00:00	03/30/15 19:48
N06@6'	1503247-07	Soil	03/30/15 00:00	03/30/15 19:48
W01@6'	1503247-08	Soil	03/30/15 00:00	03/30/15 19:48
S05@6'	1503247-09	Soil	03/30/15 00:00	03/30/15 19:48
S06@6'	1503247-10	Soil	03/30/15 00:00	03/30/15 19:48
S07@6'	1503267-01	Soil	03/31/15 00:00	03/31/15 17:45
W02@6'	1503267-02	Soil	03/31/15 00:00	03/31/15 17:45

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E02@6'	1503267-03	Soil	03/31/15 00:00	03/31/15 17:45

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

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

Summit Scientific 1410232

S₂

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: FOUNDATION ENERGY Project Manager: RACHEL GRANT
Address: _____ E-Mail: grant@foundationenergy.com
City/State/Zip: TULSA, OK
Phone: 720 257 2302 Fax: _____ Project Name: MD DAVISON
Sampler Name: A. Beard Project Number: _____

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	LABTEX	DRD	BTX		
1	MW1 @ 3.5	10/24/14	0935	1			X							X	X		
2	MW2 @ 3.5		1100	1													
3	MW3 @ 3.5		1120	1													
4	MW4 @ 3.5		1200	1													
5	MW5 @ 3.5		1300	1													
6	MW6 @ 8'		1400	1													
7	SSO1		1330	3	X				X						X		
8	SSO2		1345	3	X				X						X		
9																	
10																	

Relinquished by: <u>Agise</u>	Date/Time: <u>10/24/14 1745</u>	Received by: <u>MD</u>	Date/Time: <u>10/24/14 1745</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day _____	72 hours _____
				24 hours _____	Standard <u>X</u>
				48 hours _____	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: <u>14°C</u>	
				Intact: <u>Yes</u> No	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

Summit Scientific 1503139

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

Client: TASMAN FOUNDATION (INVOICING)
Address: _____
City/State/Zip: _____
Phone: _____ Fax: _____
Sampler Name: CTP

Page 1 of 1

Project Manager: M. CINDSTRÖM
E-Mail: _____
Project Name: MD DAVISON
Project Number: _____

				Preservative	Matrix			Analyze For:	
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl HNO ₃ None Other (Specify)	Groundwater Soil	Air - Canister Serial #	Other (Specify)		Special Instructions
N0103	3/7/5			X	X		X		
S0103	↓			X	X		X		
W0103				X	X		X		
B0105				X	X		X		
Relinquished by:				Date/Time:	Received by:		Date/Time:	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes:
Relinquished by:				Date/Time:	Received by:		Date/Time:	Sample Integrity: Temperature Upon Receipt: 36°C Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Relinquished by:				Date/Time:	Received in Lab by:		Date/Time:		

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

Summit Scientific 1503204

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

Client: TASMAN FOUNDATION (INDICUM)
Address: _____
City/State/Zip: _____
Phone: _____ FAX: _____
Sampler Name: CTP, MP

Page 1 of 1

Project Manager: M. LINDBSTROM
E-Mail: _____
Project Name: MR DAVISON
Project Number: _____

[illegible]

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

Summit Scientific 1503213

S₂

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Client: Tasman Foundation (Invermay)

Project Manager: M. Lindstrom

Page 1 of 1

Address:

E-Mail:

City/State/Zip:

Phone:

Fax:

Project Name:

MD Davison

Sampler Name: Matt Peterson

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	8260 GBTEX	8015 DRO			
1	60128	3/24/15		1			X			X			X	X			
2	60208	3/24/15		1			X			X			X	X			
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>3/24/15</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/25/15 11:00</u>	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>12.7°C</u> Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

Summit Scientific 1503247

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

Client: TASMAN (Hussey Foundation)

Page 1 of 1

Address:

City/State/Zip: Denver

Phone:

Fax:

Sampler Name: M.H. P.

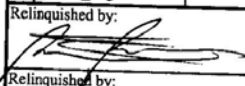

Project Manager: Carter Peace

E-Mail: C.PEACE@tasman-geo.com

Project Name: MD Davison 27-4

Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:				Special Instructions
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8160	8015	
N0206	3/2/15					X					X			
N0306														
N0406														
N0506														
S0406	X		X								X			
S0306	X		X			X					X			
N0606	X		X			X					X			
W0106														
S0506														
S0606														

Relinquished by: 	Date/Time:	Received by: 	Date/Time: 3/9/15 1948	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 5.0 Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

Summit Scientific 1503267

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

Client: Tasman (Invoice: Foundation)
Address: _____
City/State/Zip: DENVER
Phone: _____ FAX: _____
Sampler Name: M.H. P

Page 1 of 1

Project Manager: Carter Pease
E-Mail: cpease@asm-n-geo.com
Project Name: MD Division
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative	Matrix	Analyze For:	
				HCl HNO ₃ None Other (Specify) Groundwater Soil	Air - Canister Serial # Other (Specify)	BTEX 8160 DRO 8015	
SOT E6	3/31/05		-	X			Special Instructions
wOZ E6							
EozE6	↓		↓				

Relinquished by: [Signature] Date/Time: 3/31/15 Received by: [Signature] Date/Time: 3/31/15 1715 Turn Around Time (Check) Same Day ☒ 72 Hours ☐
 Relinquished by: [Signature] Date/Time: 3/31/15 1745 Received by: [Signature] Date/Time: 3/31/15 1745 24 Hours ☐ Standard ☐
 Relinquished by: [Signature] Date/Time: 3/31/15 Received in Lab by: [Signature] Date/Time: Temperature Upon Receipt: 6.0°C Intact: Yes No

Notes:
on ice

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

MW1@3.5
1410232-01 (Soil)

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Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/24/14 09:35

Analyte	Reporting			MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit								
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1410307	10/28/14	10/29/14	8015M		

Date Sampled: 10/24/14 09:35

Analyte	Reporting			MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit								
Surrogate: o-Terphenyl			104 %		30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/24/14 09:35

Analyte	Reporting			MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1410306	10/28/14	10/29/14	EPA 8260B		
Toluene	ND	10	0.000	"	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	"	

Date Sampled: 10/24/14 09:35

Analyte	Reporting			MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit								
Surrogate: 1,2-Dichloroethane-d4			119 %		23-173		"	"	"	"	
Surrogate: Toluene-d8			99.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			113 %		21-167		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

MW2@3.5
1410232-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/24/14 11:00

Analyte	Result	Reporting	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1410307	10/28/14	10/29/14	8015M	

Date Sampled: 10/24/14 11:00

Analyte	Result	Reporting	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
Surrogate: o-Terphenyl			98.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/24/14 11:00

Analyte	Result	Reporting	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1410306	10/28/14	10/29/14	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: 10/24/14 11:00

Analyte	Result	Reporting	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			104 %	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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

MW3@3.5
1410232-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/24/14 11:20

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1410307	10/28/14	10/29/14	8015M	

Date Sampled: 10/24/14 11:20

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: o-Terphenyl			96.9 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/24/14 11:20

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1410306	10/28/14	10/29/14	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: 10/24/14 11:20

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: 1,2-Dichloroethane-d4			126 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			107 %	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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

MW4@3.5
1410232-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/24/14 12:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	970	50	5.3	mg/kg	1	1410307	10/28/14	10/29/14	8015M	

Date Sampled: 10/24/14 12:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: o-Terphenyl			113 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/24/14 12:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	6.6	0.10	0.003	mg/kg	10	1410306	10/28/14	10/29/14	EPA 8260B	
Toluene	ND	10	0.000	"	1	"	"	10/29/14	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	18	10	0.062	"	100	"	"	10/29/14	"	
Gasoline Range Hydrocarbons	1000	50	18	"	"	"	"	"	"	

Date Sampled: 10/24/14 12:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: 1,2-Dichloroethane-d4			108 %	23-173		"	"	10/29/14	"	
Surrogate: Toluene-d8			93.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			114 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

MW5@3.5
1410232-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/24/14 13:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1410307	10/28/14	10/29/14	8015M	

Date Sampled: 10/24/14 13:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: o-Terphenyl			97.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/24/14 13:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1410306	10/28/14	10/29/14	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: 10/24/14 13:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: 1,2-Dichloroethane-d4			122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			107 %	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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

MW6@8
1410232-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/24/14 14:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	160	50	5.3	mg/kg	1	1410307	10/28/14	10/29/14	8015M	

Date Sampled: 10/24/14 14:00

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/24/14 14:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1410306	10/28/14	10/29/14	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: 10/24/14 14:00

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			117 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			170 %	21-167		"	"	"	"	S-02

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

N01@3'
1503139-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/17/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503184	03/18/15	03/18/15	8015M	

Date Sampled: **03/17/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: o-Terphenyl			99.2 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/17/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1503183	03/17/15	03/17/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/17/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: 1,2-Dichloroethane-d4			106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			95.6 %	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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

S01@3'
1503139-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/17/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503184	03/18/15	03/18/15	8015M	

Date Sampled: **03/17/15 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/17/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503183	03/17/15	03/17/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/17/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			97.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			96.1 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

W01@3'
1503139-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 03/17/15 00:00

Analyte	Result	Reporting	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503184	03/18/15	03/18/15	8015M	

Date Sampled: 03/17/15 00:00

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 03/17/15 00:00

Analyte	Result	Reporting	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503183	03/17/15	03/17/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: 03/17/15 00:00

Analyte	Result	Reporting	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			96.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			100 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

B01@5'
1503139-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/17/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	1100	50	5.3	mg/kg	1	1503184	03/18/15	03/18/15	8015M	

Date Sampled: **03/17/15 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/17/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	0.36	0.10	0.000	mg/kg	1	1503183	03/17/15	03/17/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	14	10	0.062	"	100	"	"	03/17/15	"	
Gasoline Range Hydrocarbons	540	50	18	"	"	"	"	"	"	

Date Sampled: **03/17/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>			108 %	23-173		"	"	03/17/15	"	
<i>Surrogate: Toluene-d8</i>			83.7 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

S02@4
1503204-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503276	03/24/15	03/24/15	8015M	

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: o-Terphenyl			102 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503280	03/24/15	03/25/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			97.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			113 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

B01@8
1503213-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503297	03/25/15	03/25/15	8015M	

Date Sampled: **03/24/15 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1503298	03/25/15	03/25/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: 1,2-Dichloroethane-d4			98.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			125 %	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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

B02@8
1503213-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503297	03/25/15	03/25/15	8015M	

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: o-Terphenyl			111 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503298	03/25/15	03/25/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/24/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			97.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			117 %	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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

N02@6'
1503247-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	350	50	5.3	mg/kg	1	1503342	03/30/15	03/30/15	8015M	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
<i>Surrogate: o-Terphenyl</i>			110 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1503341	03/30/15	03/30/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	68	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>			101 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>			110 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			106 %	21-167		"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

N03@6'
1503247-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503342	03/30/15	03/30/15	8015M	

Date Sampled: **03/30/15 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1503341	03/30/15	03/30/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: 1,2-Dichloroethane-d4			111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			105 %	21-167		"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

N04@6'
1503247-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503342	03/30/15	03/30/15	8015M	

Date Sampled: **03/30/15 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503341	03/30/15	03/30/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			103 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

N05@6'
1503247-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503342	03/30/15	03/30/15	8015M	

Date Sampled: **03/30/15 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503341	03/30/15	03/30/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			109 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

S04@6'
1503247-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503342	03/30/15	03/30/15	8015M	

Date Sampled: **03/30/15 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503341	03/30/15	03/30/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			102 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

S03@6'
1503247-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503342	03/30/15	03/30/15	8015M	

Date Sampled: **03/30/15 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503341	03/30/15	03/30/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			104 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

N06@6'
1503247-07 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503342	03/30/15	03/30/15	8015M	

Date Sampled: **03/30/15 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1503341	03/30/15	03/30/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: 1,2-Dichloroethane-d4			108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			103 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

W01@6'
1503247-08 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503342	03/30/15	03/30/15	8015M	

Date Sampled: **03/30/15 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1503341	03/30/15	03/30/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

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

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

S05@6'
1503247-09 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	110	50	5.3	mg/kg	1	1503342	03/30/15	03/30/15	8015M	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
<i>Surrogate: o-Terphenyl</i>			110 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503341	03/30/15	03/30/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	660	50	1.8	"	10	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>			96.6 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>			97.4 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			148 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

S06@6'
1503247-10 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503342	03/30/15	03/30/15	8015M	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: o-Terphenyl			111 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1503341	03/30/15	03/30/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: 1,2-Dichloroethane-d4			106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			105 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

S07@6'
1503267-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503354	03/31/15	03/31/15	8015M	

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: o-Terphenyl			97.9 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Benzene	ND	0.10	0.000	mg/kg	1	1503353	03/31/15	03/31/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
Surrogate: 1,2-Dichloroethane-d4			109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			106 %	21-167		"	"	"	"	

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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.



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6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

W02@6'
1503267-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503354	03/31/15	03/31/15	8015M	

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: o-Terphenyl			106 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503353	03/31/15	03/31/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			105 %	21-167		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

E02@6'
1503267-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1503354	03/31/15	03/31/15	8015M	

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: o-Terphenyl			106 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Benzene	ND	0.10	0.000	mg/kg	1	1503353	03/31/15	03/31/15	EPA 8260B	
Toluene	ND	10	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	10	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	10	0.000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **03/31/15 00:00**

Analyte	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4			114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8			105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			107 %	21-167		"	"	"	"	

Summit Scientific

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Denver CO, 80221

Project: MD DAVISON 27-4

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Reported:
04/15/15 09:11

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 1410307 - EPA 3550A

Blank (1410307-BLK1)

Prepared: 10/28/14 Analyzed: 10/29/14

C10-C28 (DRO) ND 50 mg/kg

LCS (1410307-BS1)

Prepared: 10/28/14 Analyzed: 10/29/14

C10-C28 (DRO) 554 50 mg/kg 501 111 73-134

Matrix Spike (1410307-MS1)

Source: 1410223-01

Prepared: 10/28/14 Analyzed: 10/29/14

C10-C28 (DRO) 530 50 mg/kg 490 ND 108 50-148

Matrix Spike Dup (1410307-MSD1)

Source: 1410223-01

Prepared: 10/28/14 Analyzed: 10/29/14

C10-C28 (DRO) 514 50 mg/kg 487 ND 105 50-148 3.04 13

Batch 1503184 - EPA 3550A

Blank (1503184-BLK1)

Prepared & Analyzed: 03/17/15

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.6 " 12.2 104 30-150

LCS (1503184-BS1)

Prepared & Analyzed: 03/17/15

C10-C28 (DRO) 430 50 mg/kg 501 85.8 73-134

Surrogate: o-Terphenyl 12.1 " 12.2 99.2 30-150

Matrix Spike (1503184-MS1)

Source: 1503140-01

Prepared & Analyzed: 03/17/15

C10-C28 (DRO) 428 50 mg/kg 479 27.2 83.7 50-148

Surrogate: o-Terphenyl 12.4 " 11.7 106 30-150

Matrix Spike Dup (1503184-MSD1)

Source: 1503140-01

Prepared & Analyzed: 03/17/15

C10-C28 (DRO) 427 50 mg/kg 479 27.2 83.4 50-148 0.321 13

Surrogate: o-Terphenyl 13.3 " 11.7 114 30-150

Summit Scientific

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Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

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 1503276 - EPA 3550A

Blank (1503276-BLK1)

Prepared & Analyzed: 03/24/15

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: <i>o</i> -Terphenyl	13.1		"	12.2		107	30-150			

LCS (1503276-BS1)

Prepared & Analyzed: 03/24/15

C10-C28 (DRO)	424	50	mg/kg	501		84.6	73-134			
Surrogate: <i>o</i> -Terphenyl	13.7		"	12.2		112	30-150			

Matrix Spike (1503276-MS1)

Source: 1503197-01

Prepared & Analyzed: 03/24/15

C10-C28 (DRO)	450	50	mg/kg	486	ND	92.5	50-148			
Surrogate: <i>o</i> -Terphenyl	13.3		"	11.8		112	30-150			

Matrix Spike Dup (1503276-MSD1)

Source: 1503197-01

Prepared & Analyzed: 03/24/15

C10-C28 (DRO)	467	50	mg/kg	492	ND	94.9	50-148	3.72	13	
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.0		112	30-150			

Batch 1503297 - EPA 3550A

Blank (1503297-BLK1)

Prepared & Analyzed: 03/25/15

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.2		99.4	30-150			

LCS (1503297-BS1)

Prepared & Analyzed: 03/25/15

C10-C28 (DRO)	449	50	mg/kg	501		89.6	73-134			
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.2		100	30-150			

Matrix Spike (1503297-MS1)

Source: 1503212-01

Prepared & Analyzed: 03/25/15

C10-C28 (DRO)	1520	50	mg/kg	493	1050	94.7	50-148			
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.0		93.1	30-150			

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Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
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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 1503297 - EPA 3550A

Matrix Spike Dup (1503297-MSD1)

Source: 1503212-01

Prepared & Analyzed: 03/25/15

C10-C28 (DRO)	1590	50	mg/kg	498	1050	108	50-148	4.69	13	
Surrogate: o-Terphenyl	6.94		"	12.1		57.2	30-150			

Batch 1503342 - EPA 3550A

Blank (1503342-BLK1)

Prepared & Analyzed: 03/30/15

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	12.2		"	12.2		100	30-150			

LCS (1503342-BS1)

Prepared & Analyzed: 03/30/15

C10-C28 (DRO)	475	50	mg/kg	501		94.8	73-134			
Surrogate: o-Terphenyl	13.8		"	12.2		113	30-150			

Matrix Spike (1503342-MS1)

Source: 1503246-01

Prepared & Analyzed: 03/30/15

C10-C28 (DRO)	532	50	mg/kg	461	115	90.5	50-148			
Surrogate: o-Terphenyl	13.6		"	11.2		121	30-150			

Matrix Spike Dup (1503342-MSD1)

Source: 1503246-01

Prepared & Analyzed: 03/30/15

C10-C28 (DRO)	509	50	mg/kg	473	115	83.4	50-148	4.43	13	
Surrogate: o-Terphenyl	13.1		"	11.5		114	30-150			

Batch 1503354 - EPA 3550A

Blank (1503354-BLK1)

Prepared & Analyzed: 03/31/15

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	11.8		"	12.2		96.7	30-150			

Summit Scientific

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Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
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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 1503354 - EPA 3550A

LCS (1503354-BS1)

Prepared & Analyzed: 03/31/15

C10-C28 (DRO)	466	50	mg/kg	501		93.0	73-134			
Surrogate: o-Terphenyl	12.4		"	12.2		101	30-150			

Matrix Spike (1503354-MS1)

Source: 1503267-01

Prepared & Analyzed: 03/31/15

C10-C28 (DRO)	454	50	mg/kg	478	9.39	93.0	50-148			
Surrogate: o-Terphenyl	11.7		"	11.6		101	30-150			

Matrix Spike Dup (1503354-MSD1)

Source: 1503267-01

Prepared & Analyzed: 03/31/15

C10-C28 (DRO)	454	50	mg/kg	475	9.39	93.5	50-148	0.0688	13	
Surrogate: o-Terphenyl	11.7		"	11.6		101	30-150			

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Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

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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 1410306 - EPA 5030 Soil MS

Blank (1410306-BLK1)

Prepared & Analyzed: 10/28/14

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4 0.0395 " 0.0396 99.7 23-173

Surrogate: Toluene-d8 0.0371 " 0.0400 92.8 20-170

Surrogate: 4-Bromofluorobenzene 0.0420 " 0.0400 105 21-167

LCS (1410306-BS1)

Prepared & Analyzed: 10/28/14

Benzene	0.0945	0.0020	mg/kg	0.100		94.5	58-130
Toluene	0.0961	0.0050	"	0.100		96.1	61-134
Ethylbenzene	0.0951	0.0050	"	0.0992		95.9	74-139
m,p-Xylene	0.195	0.010	"	0.200		97.7	73-137
o-Xylene	0.0958	0.0050	"	0.0984		97.3	73-141

Surrogate: 1,2-Dichloroethane-d4 0.0427 " 0.0396 108 23-173

Surrogate: Toluene-d8 0.0381 " 0.0400 95.2 20-170

Surrogate: 4-Bromofluorobenzene 0.0382 " 0.0400 95.6 21-167

Matrix Spike (1410306-MS1)

Source: 1410233-01

Prepared & Analyzed: 10/28/14

Benzene	0.0861	0.0020	mg/kg	0.0940	ND	91.6	30-131
Toluene	0.0863	0.0050	"	0.0940	ND	91.8	30-134
Ethylbenzene	0.0855	0.0050	"	0.0932	ND	91.7	22-153
m,p-Xylene	0.174	0.010	"	0.188	ND	92.7	10-159
o-Xylene	0.0870	0.0050	"	0.0925	ND	94.0	31-151

Surrogate: 1,2-Dichloroethane-d4 0.0420 " 0.0372 113 23-173

Surrogate: Toluene-d8 0.0353 " 0.0376 93.9 20-170

Surrogate: 4-Bromofluorobenzene 0.0390 " 0.0376 104 21-167

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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 1410306 - EPA 5030 Soil MS

Matrix Spike Dup (1410306-MSD1)

Source: 1410233-01

Prepared & Analyzed: 10/28/14

Benzene	0.0865	0.0020	mg/kg	0.0975	ND	88.7	30-131	0.409	34	
Toluene	0.0873	0.0050	"	0.0975	ND	89.6	30-134	1.19	30	
Ethylbenzene	0.0830	0.0050	"	0.0967	ND	85.9	22-153	2.90	24	
m,p-Xylene	0.169	0.010	"	0.195	ND	87.1	10-159	2.60	68	
o-Xylene	0.0838	0.0050	"	0.0959	ND	87.4	31-151	3.69	38	

Surrogate: 1,2-Dichloroethane-d4

0.0455

"

0.0386

118

23-173

Surrogate: Toluene-d8

0.0377

"

0.0390

96.7

20-170

Surrogate: 4-Bromofluorobenzene

0.0392

"

0.0390

101

21-167

Batch 1503183 - EPA 5030 Soil MS

Blank (1503183-BLK1)

Prepared & Analyzed: 03/17/15

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4

0.0421

"

0.0396

106

23-173

Surrogate: Toluene-d8

0.0403

"

0.0400

101

20-170

Surrogate: 4-Bromofluorobenzene

0.0396

"

0.0400

98.9

21-167

LCS (1503183-BS1)

Prepared & Analyzed: 03/17/15

Benzene	0.0873	0.0020	mg/kg	0.100		87.3	58-130			
Toluene	0.0866	0.0050	"	0.100		86.6	61-134			
Ethylbenzene	0.0892	0.0050	"	0.0992		89.9	74-139			
m,p-Xylene	0.178	0.010	"	0.200		89.2	73-137			
o-Xylene	0.0917	0.0050	"	0.0984		93.2	73-141			

Surrogate: 1,2-Dichloroethane-d4

0.0406

"

0.0396

102

23-173

Surrogate: Toluene-d8

0.0398

"

0.0400

99.4

20-170

Surrogate: 4-Bromofluorobenzene

0.0386

"

0.0400

96.4

21-167

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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 1503183 - EPA 5030 Soil MS

Matrix Spike (1503183-MS1)

Source: 1503126-01

Prepared & Analyzed: 03/17/15

Benzene	0.0848	0.0020	mg/kg	0.0956	ND	88.6	30-131			
Toluene	0.0790	0.0050	"	0.0956	ND	82.6	30-134			
Ethylbenzene	0.0816	0.0050	"	0.0948	ND	86.1	22-153			
m,p-Xylene	0.157	0.010	"	0.191	ND	82.2	10-159			
o-Xylene	0.0799	0.0050	"	0.0941	ND	84.9	31-151			

Surrogate: 1,2-Dichloroethane-d4

0.0408

"

0.0379

108

23-173

Surrogate: Toluene-d8

0.0371

"

0.0382

97.0

20-170

Surrogate: 4-Bromofluorobenzene

0.0368

"

0.0382

96.2

21-167

Matrix Spike Dup (1503183-MSD1)

Source: 1503126-01

Prepared & Analyzed: 03/17/15

Benzene	0.0838	0.0020	mg/kg	0.0969	ND	86.5	30-131	1.12	34	
Toluene	0.0820	0.0050	"	0.0969	ND	84.6	30-134	3.75	30	
Ethylbenzene	0.0877	0.0050	"	0.0961	ND	91.2	22-153	7.18	24	
m,p-Xylene	0.176	0.010	"	0.193	ND	90.8	10-159	11.3	68	
o-Xylene	0.0889	0.0050	"	0.0953	ND	93.3	31-151	10.7	38	

Surrogate: 1,2-Dichloroethane-d4

0.0407

"

0.0384

106

23-173

Surrogate: Toluene-d8

0.0374

"

0.0388

96.4

20-170

Surrogate: 4-Bromofluorobenzene

0.0373

"

0.0388

96.3

21-167

Batch 1503280 - EPA 5030 Soil MS

Blank (1503280-BLK1)

Prepared & Analyzed: 03/24/15

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4

0.0377

"

0.0396

95.2

23-173

Surrogate: Toluene-d8

0.0394

"

0.0400

98.6

20-170

Surrogate: 4-Bromofluorobenzene

0.0470

"

0.0400

118

21-167

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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 1503280 - EPA 5030 Soil MS

LCS (1503280-BS1)

Prepared & Analyzed: 03/24/15

Benzene	0.0908	0.0020	mg/kg	0.100		90.8	58-130
Toluene	0.0891	0.0050	"	0.100		89.1	61-134
Ethylbenzene	0.102	0.0050	"	0.0992		102	74-139
m,p-Xylene	0.213	0.010	"	0.200		107	73-137
o-Xylene	0.100	0.0050	"	0.0984		102	73-141

Surrogate: 1,2-Dichloroethane-d4	0.0360		"	0.0396		91.0	23-173
Surrogate: Toluene-d8	0.0389		"	0.0400		97.2	20-170
Surrogate: 4-Bromofluorobenzene	0.0474		"	0.0400		118	21-167

Matrix Spike (1503280-MS1)

Source: 1503197-01

Prepared & Analyzed: 03/24/15

Benzene	0.0887	0.0020	mg/kg	0.0971	ND	91.4	30-131
Toluene	0.0856	0.0050	"	0.0971	ND	88.2	30-134
Ethylbenzene	0.0986	0.0050	"	0.0963	ND	102	22-153
m,p-Xylene	0.204	0.010	"	0.194	ND	105	10-159
o-Xylene	0.0962	0.0050	"	0.0955	ND	101	31-151

Surrogate: 1,2-Dichloroethane-d4	0.0366		"	0.0384		95.3	23-173
Surrogate: Toluene-d8	0.0381		"	0.0388		98.1	20-170
Surrogate: 4-Bromofluorobenzene	0.0433		"	0.0388		111	21-167

Matrix Spike Dup (1503280-MSD1)

Source: 1503197-01

Prepared & Analyzed: 03/24/15

Benzene	0.0903	0.0020	mg/kg	0.0982	ND	91.9	30-131	1.76	34
Toluene	0.0898	0.0050	"	0.0982	ND	91.4	30-134	4.78	30
Ethylbenzene	0.101	0.0050	"	0.0974	ND	103	22-153	2.11	24
m,p-Xylene	0.207	0.010	"	0.196	ND	105	10-159	1.19	68
o-Xylene	0.0970	0.0050	"	0.0967	ND	100	31-151	0.838	38

Surrogate: 1,2-Dichloroethane-d4	0.0357		"	0.0389		91.9	23-173
Surrogate: Toluene-d8	0.0390		"	0.0393		99.3	20-170
Surrogate: 4-Bromofluorobenzene	0.0446		"	0.0393		113	21-167

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Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

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 1503298 - EPA 5030 Soil MS

Blank (1503298-BLK1)

Prepared & Analyzed: 03/25/15

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4 0.0374 " 0.0396 94.4 23-173

Surrogate: Toluene-d8 0.0391 " 0.0400 97.7 20-170

Surrogate: 4-Bromofluorobenzene 0.0448 " 0.0400 112 21-167

LCS (1503298-BS1)

Prepared & Analyzed: 03/25/15

Benzene	0.0944	0.0020	mg/kg	0.100		94.4	58-130
Toluene	0.0940	0.0050	"	0.100		94.0	61-134
Ethylbenzene	0.101	0.0050	"	0.0992		102	74-139
m,p-Xylene	0.209	0.010	"	0.200		105	73-137
o-Xylene	0.0996	0.0050	"	0.0984		101	73-141

Surrogate: 1,2-Dichloroethane-d4 0.0362 " 0.0396 91.5 23-173

Surrogate: Toluene-d8 0.0396 " 0.0400 98.9 20-170

Surrogate: 4-Bromofluorobenzene 0.0462 " 0.0400 116 21-167

Matrix Spike (1503298-MS1)

Source: 1503213-01

Prepared & Analyzed: 03/25/15

Benzene	0.127	0.0020	mg/kg	0.0998	0.0543	73.3	30-131
Toluene	0.0914	0.0050	"	0.0998	ND	91.6	30-134
Ethylbenzene	0.135	0.0050	"	0.0990	0.0535	82.7	22-153
m,p-Xylene	0.307	0.010	"	0.199	0.114	97.0	10-159
o-Xylene	0.120	0.0050	"	0.0982	0.0192	103	31-151

Surrogate: 1,2-Dichloroethane-d4 0.0382 " 0.0395 96.7 23-173

Surrogate: Toluene-d8 0.0401 " 0.0399 100 20-170

Surrogate: 4-Bromofluorobenzene 0.0455 " 0.0399 114 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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

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 1503298 - EPA 5030 Soil MS

Matrix Spike Dup (1503298-MSD1)

Source: 1503213-01

Prepared & Analyzed: 03/25/15

Benzene	0.118	0.0020	mg/kg	0.0967	0.0543	66.1	30-131	7.49	34	
Toluene	0.0859	0.0050	"	0.0967	ND	88.8	30-134	6.30	30	
Ethylbenzene	0.141	0.0050	"	0.0959	0.0535	91.5	22-153	4.31	24	
m,p-Xylene	0.339	0.010	"	0.193	0.114	116	10-159	9.79	68	
o-Xylene	0.123	0.0050	"	0.0952	0.0192	110	31-151	2.66	38	

Surrogate: 1,2-Dichloroethane-d4

0.0363

"

0.0383

94.8

23-173

Surrogate: Toluene-d8

0.0387

"

0.0387

100

20-170

Surrogate: 4-Bromofluorobenzene

0.0445

"

0.0387

115

21-167

Batch 1503341 - EPA 5030 Soil MS

Blank (1503341-BLK1)

Prepared & Analyzed: 03/30/15

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4

0.0403

"

0.0396

102

23-173

Surrogate: Toluene-d8

0.0415

"

0.0400

104

20-170

Surrogate: 4-Bromofluorobenzene

0.0414

"

0.0400

103

21-167

LCS (1503341-BS1)

Prepared & Analyzed: 03/30/15

Benzene	0.0919	0.0020	mg/kg	0.100		91.9	58-130			
Toluene	0.0978	0.0050	"	0.100		97.8	61-134			
Ethylbenzene	0.0903	0.0050	"	0.0992		91.1	74-139			
m,p-Xylene	0.185	0.010	"	0.200		92.8	73-137			
o-Xylene	0.0964	0.0050	"	0.0984		98.0	73-141			

Surrogate: 1,2-Dichloroethane-d4

0.0398

"

0.0396

100

23-173

Surrogate: Toluene-d8

0.0410

"

0.0400

103

20-170

Surrogate: 4-Bromofluorobenzene

0.0418

"

0.0400

105

21-167

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

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 1503341 - EPA 5030 Soil MS

Matrix Spike (1503341-MS1)

Source: 1503246-01

Prepared & Analyzed: 03/30/15

Benzene	0.0870	0.0020	mg/kg	0.0940	ND	92.5	30-131			
Toluene	0.0910	0.0050	"	0.0940	ND	96.9	30-134			
Ethylbenzene	0.0881	0.0050	"	0.0932	ND	94.5	22-153			
m,p-Xylene	0.176	0.010	"	0.188	ND	94.0	10-159			
o-Xylene	0.0861	0.0050	"	0.0925	ND	93.1	31-151			

Surrogate: 1,2-Dichloroethane-d4

0.0374

"

0.0372

100

23-173

Surrogate: Toluene-d8

0.0376

"

0.0376

99.9

20-170

Surrogate: 4-Bromofluorobenzene

0.0557

"

0.0376

148

21-167

Matrix Spike Dup (1503341-MSD1)

Source: 1503246-01

Prepared & Analyzed: 03/30/15

Benzene	0.0876	0.0020	mg/kg	0.0960	ND	91.2	30-131	0.685	34	
Toluene	0.0925	0.0050	"	0.0960	ND	96.4	30-134	1.59	30	
Ethylbenzene	0.0918	0.0050	"	0.0952	ND	96.4	22-153	4.08	24	
m,p-Xylene	0.185	0.010	"	0.192	ND	96.6	10-159	4.77	68	
o-Xylene	0.0914	0.0050	"	0.0944	ND	96.8	31-151	6.01	38	

Surrogate: 1,2-Dichloroethane-d4

0.0376

"

0.0380

98.9

23-173

Surrogate: Toluene-d8

0.0387

"

0.0384

101

20-170

Surrogate: 4-Bromofluorobenzene

0.0572

"

0.0384

149

21-167

Batch 1503353 - EPA 5030 Soil MS

Blank (1503353-BLK1)

Prepared & Analyzed: 03/31/15

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4

0.0394

"

0.0396

99.6

23-173

Surrogate: Toluene-d8

0.0424

"

0.0400

106

20-170

Surrogate: 4-Bromofluorobenzene

0.0426

"

0.0400

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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

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 1503353 - EPA 5030 Soil MS

LCS (1503353-BS1)

Prepared & Analyzed: 03/31/15

Benzene	0.0928	0.0020	mg/kg	0.100		92.8	58-130
Toluene	0.101	0.0050	"	0.100		101	61-134
Ethylbenzene	0.0916	0.0050	"	0.0992		92.3	74-139
m,p-Xylene	0.186	0.010	"	0.200		93.1	73-137
o-Xylene	0.0973	0.0050	"	0.0984		98.9	73-141

Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0396		101	23-173
Surrogate: Toluene-d8	0.0420		"	0.0400		105	20-170
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	21-167

Matrix Spike (1503353-MS1)

Source: 1503267-01

Prepared & Analyzed: 03/31/15

Benzene	0.0874	0.0020	mg/kg	0.0923	ND	94.7	30-131
Toluene	0.0938	0.0050	"	0.0923	ND	102	30-134
Ethylbenzene	0.0840	0.0050	"	0.0915	ND	91.8	22-153
m,p-Xylene	0.169	0.010	"	0.184	ND	91.8	10-159
o-Xylene	0.0889	0.0050	"	0.0908	ND	98.0	31-151

Surrogate: 1,2-Dichloroethane-d4	0.0381		"	0.0365		104	23-173
Surrogate: Toluene-d8	0.0390		"	0.0369		106	20-170
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0369		103	21-167

Matrix Spike Dup (1503353-MSD1)

Source: 1503267-01

Prepared & Analyzed: 03/31/15

Benzene	0.0867	0.0020	mg/kg	0.0928	ND	93.4	30-131	0.848	34
Toluene	0.0936	0.0050	"	0.0928	ND	101	30-134	0.245	30
Ethylbenzene	0.0855	0.0050	"	0.0920	ND	93.0	22-153	1.80	24
m,p-Xylene	0.172	0.010	"	0.185	ND	93.1	10-159	1.97	68
o-Xylene	0.0911	0.0050	"	0.0913	ND	99.8	31-151	2.47	38

Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0367		104	23-173
Surrogate: Toluene-d8	0.0392		"	0.0371		106	20-170
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0371		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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:11

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.

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

Summit Scientific

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

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.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 15, 2015

Carter Peace
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: MD DAVISON 27-4

Enclosed are the results of analyses for samples received by Summit Scientific on 03/30/15 19:48-10/24/14 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	1410232-07	Water	10/24/14 13:30	10/24/14 17:45
SS02	1410232-08	Water	10/24/14 13:45	10/24/14 17:45
GW01	1503259-01	Water	03/30/15 00:00	03/30/15 19:48
MW01	1503259-02	Water	03/30/15 00:00	03/30/15 19:48
MW02	1503259-03	Water	03/30/15 00:00	03/30/15 19:48
MW03	1503259-04	Water	03/30/15 00:00	03/30/15 19:48
MW05	1503259-05	Water	03/30/15 00:00	03/30/15 19:48
MW06	1503259-06	Water	03/30/15 00:00	03/30/15 19:48

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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

Summit Scientific 1410232

S₂

741 Corporate Circle, Suite J&K • Golden, Colorado 80401
303-277-9310 • 303-374-5933

Page 1 of 1

Client: FOUNDATION ENERGY

Project Manager: RACHEL GRANT

Address:

E-Mail: grant@foundationenergy.com

City/State/Zip: TULSA, OK

Phone: 720 257 2302

Fax:

Project Name: MD DAVISON

Sampler Name: A. Beard

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested			Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	GBTEX	
1	MW1 03.5	10/24/14	0935	1	X		X							
2	MW2 03.5		1100	1	X									
3	MW3 03.5		1120	1	X									
4	MW4 03.5		1200	1	X									
5	MW5 03.5		1300	1	X									
6	MW6 08'		1400	1	X									
7	SS01		1330	3	X			X				X		
8	SS02		1345	3	X			X				X		
9														
10														

Relinquished by:	Date/Time: 10/24/14 1745	Received by:	Date/Time: 10/24/14 1745	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: 14°C	
				Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

Summit Scientific 1503259

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

Client: TASMAN (Invoice: Foundation)

Page 1 of 1

Address:

Project Manager: Carter Peace

City/State/Zip: DeAvar

E-Mail: C.pearce@Tasman-geo.com

Phone:

Fax:

Project Name: MD DAVISON 27-4

Sampler Name: M. H. A.

Project Number:

			Preservative						Matrix		Analyze For:							Special Instructions
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)							
SS05 GW01	3/30/15		3	X				X	X									
MW01			3	X				X	X									
MW02			3	X				X	X									
MW03			3	X				X	X									
MW05			3	X				X	X									
MW06	↓		3	X				X	X									
Relinquished by: [Signature]	Date/Time: 3/30/15	Received by: [Signature]	Date/Time: 3/10 1998	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/>		72 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>		Notes: STD Turn										
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 5.0°C		Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		[Signature]										
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:															

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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

Sample Receipt Checklist

S2 Work Order: 1503259

Client: Tasman

Client Project ID: MD Davison 27-4

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

Airbill #: _____

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

Cooler ID	<u>Client</u>				
Temp (°C)	<u>5.0</u>				

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 ⁽¹⁾ ?	<input checked="" 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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	<input checked="" type="checkbox"/>			HCl
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, etc.				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Joseph J. Eary IV
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

3/31/15
Date/Time

[Signature]



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

SS01
1410232-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/14 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1410291	10/28/14	10/28/14	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/24/14 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.6 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		95.4 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %	45-146		"	"	"	"	

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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

SS02
1410232-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/14 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1410291	10/28/14	10/28/14	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/24/14 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		85.4 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		94.8 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	45-146		"	"	"	"	

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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

GW01
1503259-01 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	5.00	mg/L	1	1504031	04/03/15	04/03/15	8015M	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		121 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.5	1.0	ug/l	1	1503351	04/01/15	04/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	1.1	1.0	"	"	"	"	"	"	
Xylenes (total)	4.6	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		105 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	45-146		"	"	"	"	

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: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

MW01
1503259-02 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	11.8	5.00	mg/L	1	1504031	04/03/15	04/03/15	8015M	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		117 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1503351	04/01/15	04/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	45-146		"	"	"	"	

Summit Scientific

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Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

MW02
1503259-03 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	5.00	mg/L	1	1504031	04/03/15	04/03/15	8015M	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		119 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1503351	04/01/15	04/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.6 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		103 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	45-146		"	"	"	"	

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Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

MW03
1503259-04 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	5.00	mg/L	1	1504031	04/03/15	04/03/15	8015M	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		118 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1503351	04/01/15	04/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		105 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	45-146		"	"	"	"	

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Project Manager: Carter Peace

Reported:
04/15/15 09:16

MW05
1503259-05 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	7.15	5.00	mg/L	1	1504031	04/03/15	04/03/15	8015M	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		123 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1503351	04/01/15	04/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	45-146		"	"	"	"	

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Project Number: [none]
Project Manager: Carter Peace

Reported:
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MW06
1503259-06 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	5.00	mg/L	1	1504031	04/03/15	04/03/15	8015M	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		120 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1503351	04/01/15	04/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **03/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		102 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	45-146		"	"	"	"	

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Project: MD DAVISON 27-4

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04/15/15 09:16

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1504031 - EPA 3520B

Blank (1504031-BLK1)

Prepared & Analyzed: 04/03/15

C10-C28 (DRO)	ND	5.00	mg/L							
Surrogate: o-Terphenyl	1.55		"	1.22		127	47.2-150			

LCS (1504031-BS1)

Prepared & Analyzed: 04/03/15

C10-C28 (DRO)	67.9	5.00	mg/L	83.5		81.4	80-149			
Surrogate: o-Terphenyl	1.73		"	1.22		141	47.2-150			

Duplicate (1504031-DUP1)

Source: 1504016-02

Prepared & Analyzed: 04/03/15

C10-C28 (DRO)	ND	5.00	mg/L		ND				200	
Surrogate: o-Terphenyl	1.48		"	1.22		121	47.2-150			

Matrix Spike (1504031-MS1)

Source: 1504016-01

Prepared & Analyzed: 04/03/15

C10-C28 (DRO)	48.3	5.00	mg/L	50.1	ND	96.3	80-120			
Surrogate: o-Terphenyl	1.47		"	1.22		120	47.2-150			

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Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

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04/15/15 09:16

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 1410291 - EPA 5030 Water MS

Blank (1410291-BLK1)

Prepared & Analyzed: 10/28/14

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.3		"	13.2		85.5	37-154			
Surrogate: Toluene-d8	12.4		"	13.3		92.8	45-149			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	45-146			

LCS (1410291-BS1)

Prepared & Analyzed: 10/28/14

Benzene	40.6	1.0	ug/l	33.3		122	51-132			
Toluene	40.1	1.0	"	33.3		120	51-138			
Ethylbenzene	41.9	1.0	"	33.1		127	58-146			
m,p-Xylene	81.5	2.0	"	66.5		123	57-144			
o-Xylene	41.3	1.0	"	32.8		126	53-146			
Surrogate: 1,2-Dichloroethane-d4	11.1		"	13.2		84.2	37-154			
Surrogate: Toluene-d8	12.8		"	13.3		96.3	45-149			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.1	45-146			

Matrix Spike (1410291-MS1)

Source: 1410221-01

Prepared & Analyzed: 10/28/14

Benzene	46.9	1.0	ug/l	33.3	5.93	123	34-141			
Toluene	39.9	1.0	"	33.3	ND	120	27-151			
Ethylbenzene	41.6	1.0	"	33.1	ND	126	29-160			
m,p-Xylene	81.4	2.0	"	66.5	ND	122	20-166			
o-Xylene	41.6	1.0	"	32.8	ND	127	33-159			
Surrogate: 1,2-Dichloroethane-d4	11.6		"	13.2		88.2	37-154			
Surrogate: Toluene-d8	12.6		"	13.3		94.7	45-149			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.0	45-146			

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Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1410291 - EPA 5030 Water MS

Matrix Spike Dup (1410291-MSD1)				Source: 1410221-01		Prepared & Analyzed: 10/28/14				
Benzene	46.0	1.0	ug/l	33.3	5.93	120	34-141	1.81	32	
Toluene	40.0	1.0	"	33.3	ND	120	27-151	0.225	25	
Ethylbenzene	41.7	1.0	"	33.1	ND	126	29-160	0.144	50	
m,p-Xylene	81.8	2.0	"	66.5	ND	123	20-166	0.466	36	
o-Xylene	41.9	1.0	"	32.8	ND	128	33-159	0.815	26	
Surrogate: 1,2-Dichloroethane-d4	11.8		"	13.2		89.2	37-154			
Surrogate: Toluene-d8	12.7		"	13.3		95.3	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.1	45-146			

Batch 1503351 - EPA 5030 Water MS

Blank (1503351-BLK1)				Prepared & Analyzed: 03/31/15						
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Gasoline Range Hydrocarbons	ND	500	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		102	37-154			
Surrogate: Toluene-d8	13.8		"	13.3		104	45-149			
Surrogate: 4-Bromofluorobenzene	14.2		"	13.3		107	45-146			

LCS (1503351-BS1)				Prepared & Analyzed: 03/31/15						
Benzene	30.4	1.0	ug/l	33.3		91.1	51-132			
Toluene	32.7	1.0	"	33.3		98.1	51-138			
Ethylbenzene	29.5	1.0	"	33.1		89.1	58-146			
m,p-Xylene	58.7	2.0	"	66.5		88.3	57-144			
o-Xylene	30.5	1.0	"	32.8		93.0	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.2		103	37-154			
Surrogate: Toluene-d8	13.9		"	13.3		104	45-149			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	45-146			

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Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1503351 - EPA 5030 Water MS

Matrix Spike (1503351-MS1)		Source: 1503260-01			Prepared & Analyzed: 03/31/15					
Benzene	31.1	1.0	ug/l	33.3	ND	93.4	34-141			
Toluene	33.6	1.0	"	33.3	ND	101	27-151			
Ethylbenzene	30.5	1.0	"	33.1	ND	92.3	29-160			
m,p-Xylene	61.0	2.0	"	66.5	ND	91.7	20-166			
o-Xylene	31.8	1.0	"	32.8	ND	97.1	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2		104	37-154			
Surrogate: Toluene-d8	13.8		"	13.3		104	45-149			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	45-146			
Matrix Spike Dup (1503351-MSD1)		Source: 1503260-01			Prepared & Analyzed: 03/31/15					
Benzene	32.1	1.0	ug/l	33.3	ND	96.4	34-141	3.19	32	
Toluene	33.2	1.0	"	33.3	ND	99.7	27-151	0.928	25	
Ethylbenzene	30.4	1.0	"	33.1	ND	92.1	29-160	0.262	50	
m,p-Xylene	60.8	2.0	"	66.5	ND	91.4	20-166	0.312	36	
o-Xylene	31.8	1.0	"	32.8	ND	97.0	33-159	0.0314	26	
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.2		107	37-154			
Surrogate: Toluene-d8	13.7		"	13.3		103	45-149			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	45-146			

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Denver CO, 80221

Project: MD DAVISON 27-4

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/15/15 09:16

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

Summit Scientific

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

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Attachment B