

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 07, 2016

Colby Sterling

Talon/LPE

1811 E Mulberry

Ft Collins, CO 80524

RE: Memorial FTC Tanks

Enclosed are the results of analyses for samples received by Summit Scientific on 06/02/16 17:50. 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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial FTC Tanks

Project Number: 701959.001.009
Project Manager: Colby Sterling

Reported:
06/07/16 14:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A1	1606020-01	Soil	06/02/16 12:50	06/02/16 17:50
A2	1606020-02	Soil	06/02/16 12:55	06/02/16 17:50
A3	1606020-03	Soil	06/02/16 13:00	06/02/16 17:50
A4	1606020-04	Soil	06/02/16 13:05	06/02/16 17:50
A5	1606020-05	Soil	06/02/16 13:10	06/02/16 17:50
A6	1606020-06	Soil	06/02/16 13:15	06/02/16 17:50
A7	1606020-07	Soil	06/02/16 13:20	06/02/16 17:50
A8	1606020-08	Soil	06/02/16 13:25	06/02/16 17:50
A9	1606020-09	Soil	06/02/16 13:30	06/02/16 17:50
A10	1606020-10	Soil	06/02/16 13:35	06/02/16 17:50
A11	1606020-11	Soil	06/02/16 13:40	06/02/16 17:50

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial FTC Tanks

Project Number: 701959.001.009
Project Manager: Colby Sterling

Reported:
06/07/16 14:33

Summit Scientific

1606020.1

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

Page 1 of 2

Client: Talon LPE
Address: 1811 E Mulberry
City/State/Zip: Ft Collins CO 80524
Phone: 970 818 5330 Fax:
Sampler Name: J. Leventon

Project Manager: Colby Sterling
E-Mail: csterling@talonlpe.com
Project Name: Memorial Ft Tanks
Project Number: 701959.001.09

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)	TPH	BTEX	
A1	6-2-16	12:50	1		X			X			X	X		
A2		12:55												
A3		13:00												
A4		13:05												
A5		13:10												
A6		13:15												
A7		13:20												
A8		13:25												
A9		13:30												
A10		13:35												
Relinquished by: <u>[Signature]</u>		Date/Time: <u>6-2-16 17:50</u>	Received by: <u>[Signature]</u>		Date/Time: <u>6-2-16 17:50</u>	Turn Around Time (Check)			Notes: <u>on file</u>					
Relinquished by: <u>[Signature]</u>		Date/Time: <u>6-2-16 19:30</u>	Received by: <u>[Signature]</u>		Date/Time: <u>6-2-16 19:30</u>	Sample Integrity: <u>20/6</u>								
Relinquished by:		Date/Time:	Received in Lab by:		Date/Time:	Temperature Upon Receipt: <u>20/6</u>								
						Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								

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S₂

Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial FTC Tanks

Project Number: 701959.001.009
Project Manager: Colby Sterling

Reported:
06/07/16 14:33

Sample Receipt Checklist

S2 Work Order: 1606020

Client: Talon

Client Project ID: Memorial FTC Tanks

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

Airbill #: _____

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

Cooler ID					
Temp (°C)	<u>20.6°C</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"/>	
Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , ect				
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.

Mindy March
Custodian Printed Name

MS
Signature or Initials of Custodian

6/3/16 1154
Date/Time



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial FTC Tanks

Project Number: 701959.001.009
Project Manager: Colby Sterling

Reported:
06/07/16 14:33

A1
1606020-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	930	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		139 %	70-130		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/06/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.5	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	21-167		"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial FTC Tanks
Project Number: 701959.001.009
Project Manager: Colby Sterling

Reported:
06/07/16 14:33

A2
1606020-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1100	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		122 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/04/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.3	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 12:55**

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

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Reported:
06/07/16 14:33

A3
1606020-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1000	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		117 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/04/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.8	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	21-167		"	"	"	"	

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Reported:
06/07/16 14:33

A4
1606020-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1500	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		194 %	70-130		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/04/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.87	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 13:05**

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

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Ft Collins CO, 80524

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Reported:
06/07/16 14:33

A5
1606020-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1500	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		194 %	70-130		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/04/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.70	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	21-167		"	"	"	"	

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Reported:
06/07/16 14:33

A6
1606020-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1300	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		171 %	70-130		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/04/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.1	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	21-167		"	"	"	"	

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Ft Collins CO, 80524

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Reported:
06/07/16 14:33

A7
1606020-07 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1000	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		110 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/04/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.3	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	21-167		"	"	"	"	

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1811 E Mulberry
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Project: Memorial FTC Tanks
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Reported:
06/07/16 14:33

A8
1606020-08 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1100	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		158 %	70-130		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/04/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.7	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 13:25**

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

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1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial FTC Tanks
Project Number: 701959.001.009
Project Manager: Colby Sterling

Reported:
06/07/16 14:33

A9
1606020-09 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1000	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		118 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/04/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.5	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	21-167		"	"	"	"	

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1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial FTC Tanks
Project Number: 701959.001.009
Project Manager: Colby Sterling

Reported:
06/07/16 14:33

A10
1606020-10 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	990	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		126 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/04/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.82	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	21-167		"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial FTC Tanks
Project Number: 701959.001.009
Project Manager: Colby Sterling

Reported:
06/07/16 14:33

A11
1606020-11 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/16 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1100	50	mg/kg	1	1606031	06/03/16	06/03/16	8015M	

Date Sampled: **06/02/16 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		153 %	70-130		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/16 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606034	06/03/16	06/04/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.0	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/16 13:40**

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

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1606031 - EPA 3550A

Blank (1606031-BLK1)

Prepared & Analyzed: 06/03/16

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	14.0		"	12.5		112	70-130				

LCS (1606031-BS1)

Prepared & Analyzed: 06/03/16

C10-C28 (DRO)	541	50	mg/kg	499		108	50-150				
<i>Surrogate: o-Terphenyl</i>	13.7		"	12.5		109	70-130				

Matrix Spike (1606031-MS1)

Source: 1606020-01

Prepared & Analyzed: 06/03/16

C10-C28 (DRO)	1120	50	mg/kg	489	932	37.6	50-150				QM-07
<i>Surrogate: o-Terphenyl</i>	23.2		"	12.3		190	70-130				S-02

Matrix Spike Dup (1606031-MSD1)

Source: 1606020-01

Prepared & Analyzed: 06/03/16

C10-C28 (DRO)	1440	50	mg/kg	492	932	102	50-150	25.0	20		QM-07
<i>Surrogate: o-Terphenyl</i>	26.7		"	12.3		217	70-130				S-02

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

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

Batch 1606034 - EPA 5030 Soil MS

Blank (1606034-BLK1)

Prepared & Analyzed: 06/03/16

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.4</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.2</i>	<i>21-167</i>			

LCS (1606034-BS1)

Prepared & Analyzed: 06/03/16

Benzene	0.144	0.0020	mg/kg	0.150		96.2	58-130			
Toluene	0.136	0.0050	"	0.150		91.0	61-134			
Ethylbenzene	0.147	0.0050	"	0.150		97.9	74-139			
m,p-Xylene	0.288	0.010	"	0.300		95.9	73-137			
o-Xylene	0.148	0.0050	"	0.150		98.9	73-141			
Xylenes (total)	0.436	0.0050	"				30-150			
Gasoline Range Hydrocarbons	ND	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>99.9</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>21-167</i>			

Matrix Spike (1606034-MS1)

Source: 1606034-01

Prepared & Analyzed: 06/03/16

Benzene	0.142	0.0020	mg/kg	0.150	ND	95.0	30-131			
Toluene	0.131	0.0050	"	0.150	ND	87.5	30-134			
Ethylbenzene	0.136	0.0050	"	0.150	ND	90.5	22-153			
m,p-Xylene	0.265	0.010	"	0.300	ND	88.5	10-159			
o-Xylene	0.137	0.0050	"	0.150	ND	91.5	31-151			
Xylenes (total)	0.403	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	ND	0.50	"		ND		30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.3</i>	<i>21-167</i>			

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Project: Memorial FTC Tanks

Project Number: 701959.001.009
Project Manager: Colby Sterling

Reported:
06/07/16 14:33

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

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

Batch 1606034 - EPA 5030 Soil MS

Matrix Spike Dup (1606034-MSD1)	Source: 1606034-01			Prepared & Analyzed: 06/03/16						
Benzene	0.142	0.0020	mg/kg	0.150	ND	94.3	30-131	0.676	34	
Toluene	0.130	0.0050	"	0.150	ND	86.8	30-134	0.895	30	
Ethylbenzene	0.134	0.0050	"	0.150	ND	89.3	22-153	1.31	24	
m,p-Xylene	0.261	0.010	"	0.300	ND	86.9	10-159	1.76	68	
o-Xylene	0.134	0.0050	"	0.150	ND	89.3	31-151	2.48	38	
Xylenes (total)	0.395	0.0050	"		ND		30-150	2.00	20	
Gasoline Range Hydrocarbons	ND	0.50	"		ND		30-150		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0416</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>21-167</i>			

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Project: Memorial FTC Tanks

Project Number: 701959.001.009
Project Manager: Colby Sterling

Reported:
06/07/16 14:33

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference