



August 16, 2016

Mr. Ward Giltner
Prospect Energy, LLC
1229 East Douglas Road
Fort Collins, Colorado 80524

**RE: Confirmation Sampling and Soil Remediation
Martinez 1 Line
Larimer County, Colorado
Project # 702108.002.01**

Mr. Giltner:

On June 3 & 16, 2016, Talon/LPE conducted confirmation soil sampling at the Martinez 1 Line location (site) in Larimer County, Colorado. The purpose of the sampling event was to ensure that all hydrocarbon impacted soil had been removed to the extent required by the Colorado Oil and Gas Conservation Commission (COGCC). The site is identified by the COGCC as Spill/Release Point ID 445875.

On June 3, 2016, a total of five (5) grab samples (SW N @ 5.5', SW NE @ 5.5', BH @ 5.5', SW S @ 5.5', and SW SW @ 5.5') were collected in the excavation. A site map with the sample locations is presented in Figure 1.

The collected samples were analyzed for Total Petroleum Hydrocarbons (TPH) via Gasoline Range Organics (GRO) method EPA8260B and Diesel Range Organics (DRO) method 8015, and for Benzene, Toluene, Ethyl-benzene, and Xylenes (BTEX) via method EPA8260B at Summit Scientific (Summit) in Golden, Colorado. Samples SW N @ 5.5', SW NE @ 5.5', and BH @ 5.5' were reported to exhibit TPH and BTEX concentrations below COGCC Table 910-1 concentration levels. Samples SW S @ 5.5' and SW SW @ 5.5' exhibited non-detectable BTEX concentrations, but had TPH concentrations above COGCC Table 910-1 thresholds. A soil concentration map is presented in Figure 2 and a breakdown of the soil analytical data is presented in Table 1.

Based on the collected analytical data, further excavation was performed by Prospect Energy contractors to remove the residual impacted areas. On June 16, 2016, Talon/LPE conducted additional soil confirmation sampling to confirm the remaining areas of impact had been removed. A total of two (2) grab samples (SW S



2 @ 5.5' and SW SW 2 @ 5.5') were collected near the previous sampling locations and analyzed for the TPH and BTEX at Summit. Both samples exhibited non-detectable TPH and BTEX concentrations.

On June 9, 2016, Talon/LPE utilized a Royer Model 364 soil shredding machine to remediate the one hundred twenty eight (128) cubic yards of hydrocarbon impacted soil from the original excavation. The Royer Model 364 soil shredding machine pulverized the impacted soil which increased the surface area of the soil and allowed maximum volatilization of the hydrocarbons. Additionally, while shredding the impacted soils, Talon/LPE applied a 10-15% hydrogen peroxide solution to chemically oxidize the hydrocarbons. Talon/LPE returned to the site on July 21, 2016, to remediate the additional thirty (30) cubic yards of hydrocarbon impacted soil resulting from the further excavation.

On July 26, 2016, Talon/LPE collected composite confirmation samples (SP-1 and SP-2) from the remediated stockpiles. The collected samples were analyzed for TPH and BTEX at Summit. Both samples were reported to exhibit TPH and BTEX concentrations below COGCC Table 910-1 concentration levels.

Based upon the collected analytical data and actions conducted, Talon/LPE believes that the hydrocarbon impacted soils have been removed and remediated to the extent required by the COGCC and no further corrective action is necessary. If you have any questions or comments, please do not hesitate to call me at (970) 818-5330.

Respectfully Submitted,

Colby Sterling
District Manager
Talon/LPE



Table 1 - Soil Analytical Data

**Prospect Energy
Martinez 1
Larimer County, Colorado**

Sample ID	Lab ID	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethyl-Benzene	Xylenes	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
SW N @ 5.5'	1606038-01	06/03/16	<0.0020	<0.0050	<0.0050	<0.0050	2.9	190	192.9
SW NE @ 5.5'	1606038-02	06/03/16	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
BH @ 5.5'	1606038-03	06/03/16	<0.0020	<0.0050	<0.0050	<0.0050	3.1	57	60.1
SW S @ 5.5'	1606038-04	06/03/16	<0.0020	<0.0050	<0.0050	<0.0050	24	1200	1224
SW S 2 @ 5.5'	1606172-02	06/16/16	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW SW @ 5.5'	1606038-05	06/03/16	<0.0020	<0.0050	<0.0050	<0.0050	3.5	800	803.5
SW SW 2 @ 5.5'	1606172-01	06/16/16	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SP-1	1607187-01	07/26/16	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	340	340
SP-2	1607187-02	07/26/16	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	390	390

mg/kg - milligrams per kilogram

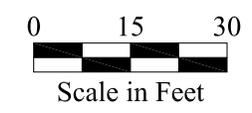
< - Analytical result is less than the reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

GRO - Gasoline Range Organics

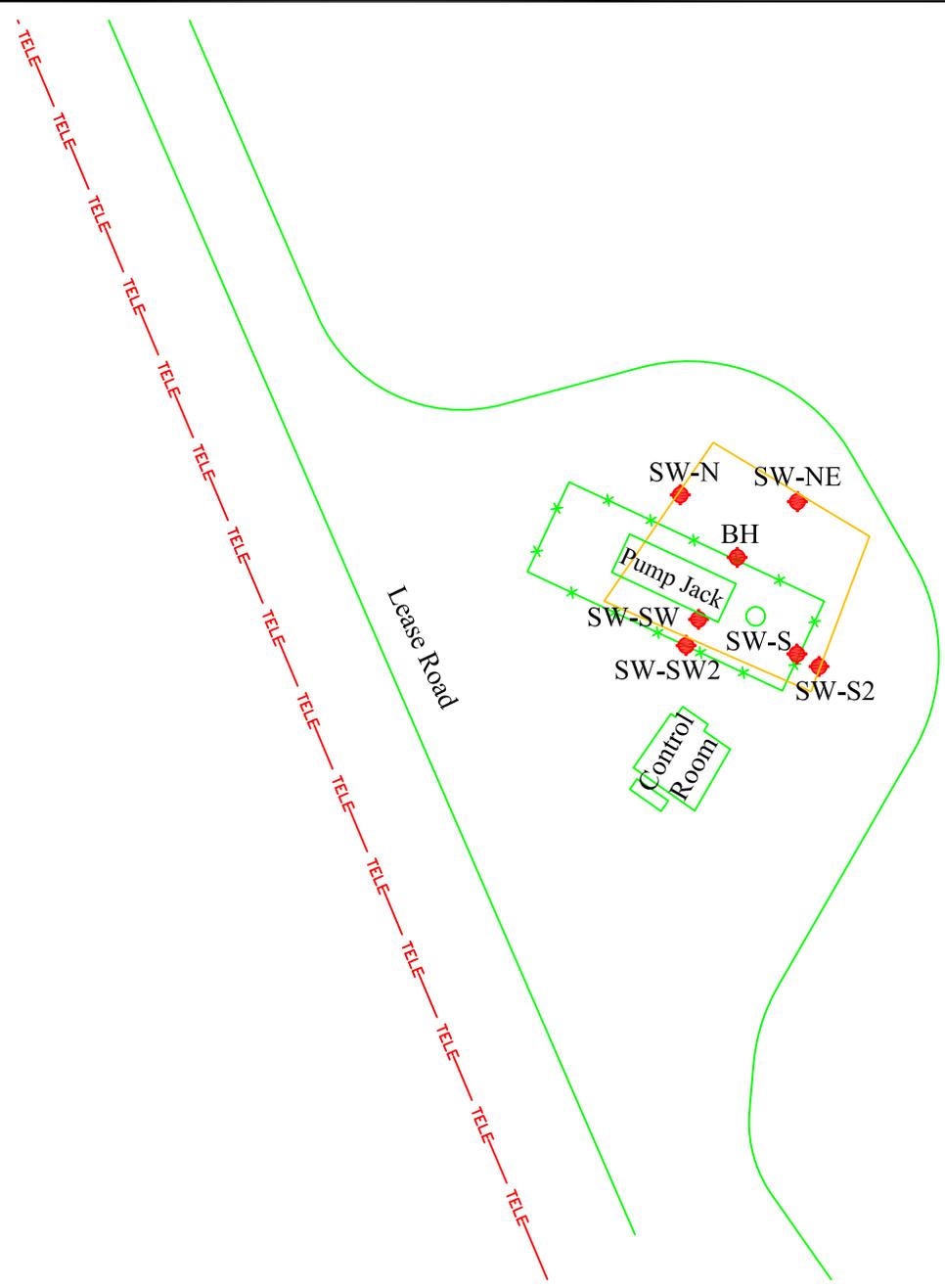
DRO - Diesel Range Organics

TPH - Total Petroleum Hydrocarbons (Combined GRO/DRO)



Legend

- Sample Location
- Overhead Powerline
- Excavated Area



Date: 08/16/2016
Scale: 1" = 30'
Drawn By: TJS

Martinez 1
Prospect Energy
Larimer County, Colorado
Figure 1 - Site Plan

BH-5.5', mg/kg
 GRO = 3.1
 DRO = 57
 TPH = 60.1
 B = <0.0020
 T = <0.0050
 E = <0.0050
 X = <0.0050

SW-NE-5.5', mg/kg
 GRO = <0.50
 DRO = <50
 TPH = <50
 B = <0.0020
 T = <0.0050
 E = <0.0050
 X = <0.0050

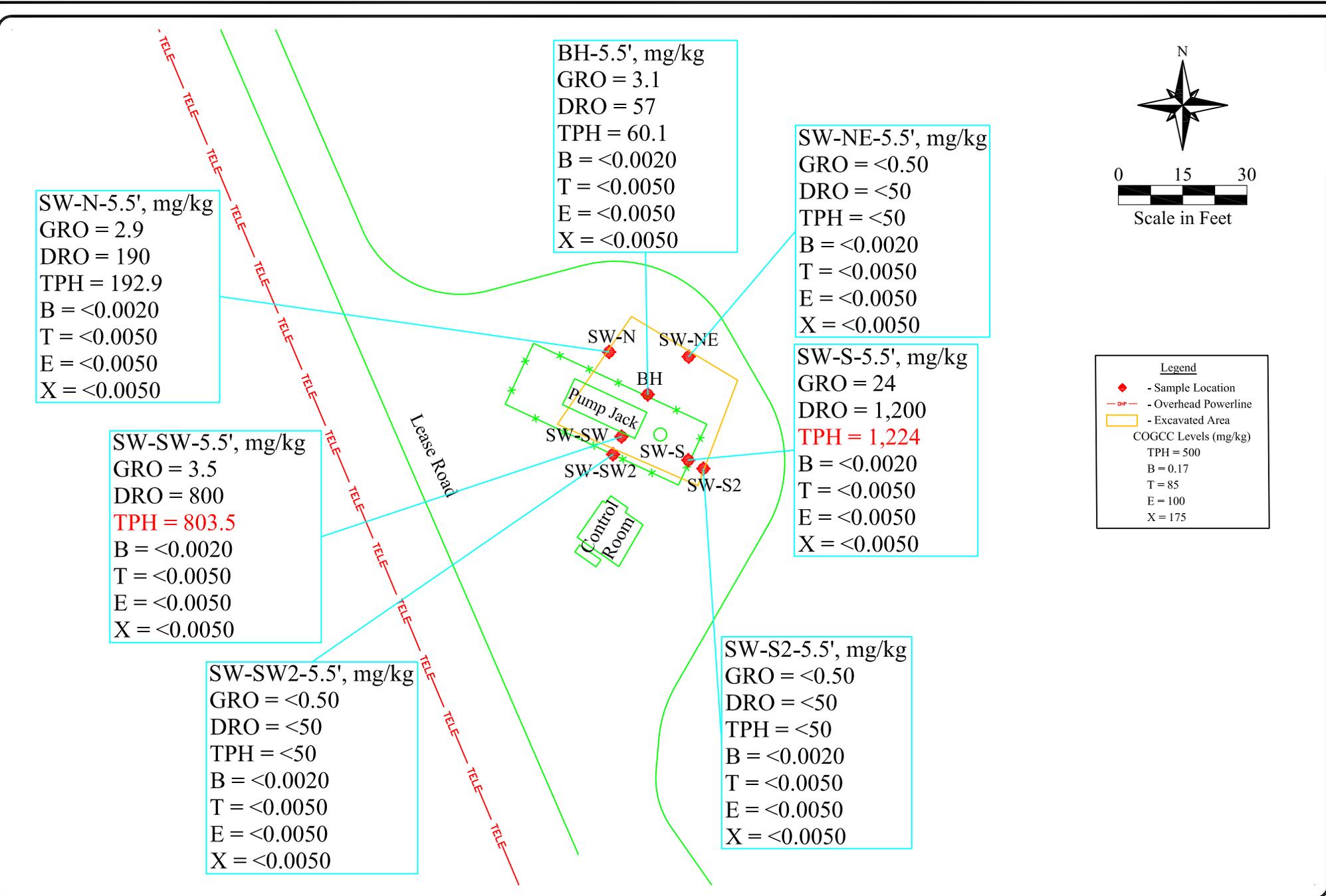
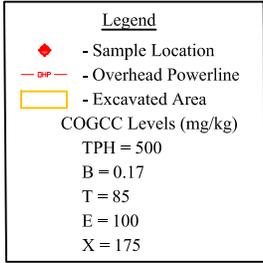
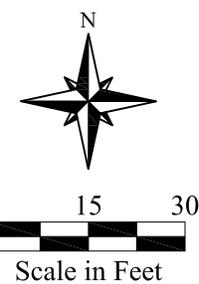
SW-S-5.5', mg/kg
 GRO = 24
 DRO = 1,200
 TPH = 1,224
 B = <0.0020
 T = <0.0050
 E = <0.0050
 X = <0.0050

SW-S2-5.5', mg/kg
 GRO = <0.50
 DRO = <50
 TPH = <50
 B = <0.0020
 T = <0.0050
 E = <0.0050
 X = <0.0050

SW-N-5.5', mg/kg
 GRO = 2.9
 DRO = 190
 TPH = 192.9
 B = <0.0020
 T = <0.0050
 E = <0.0050
 X = <0.0050

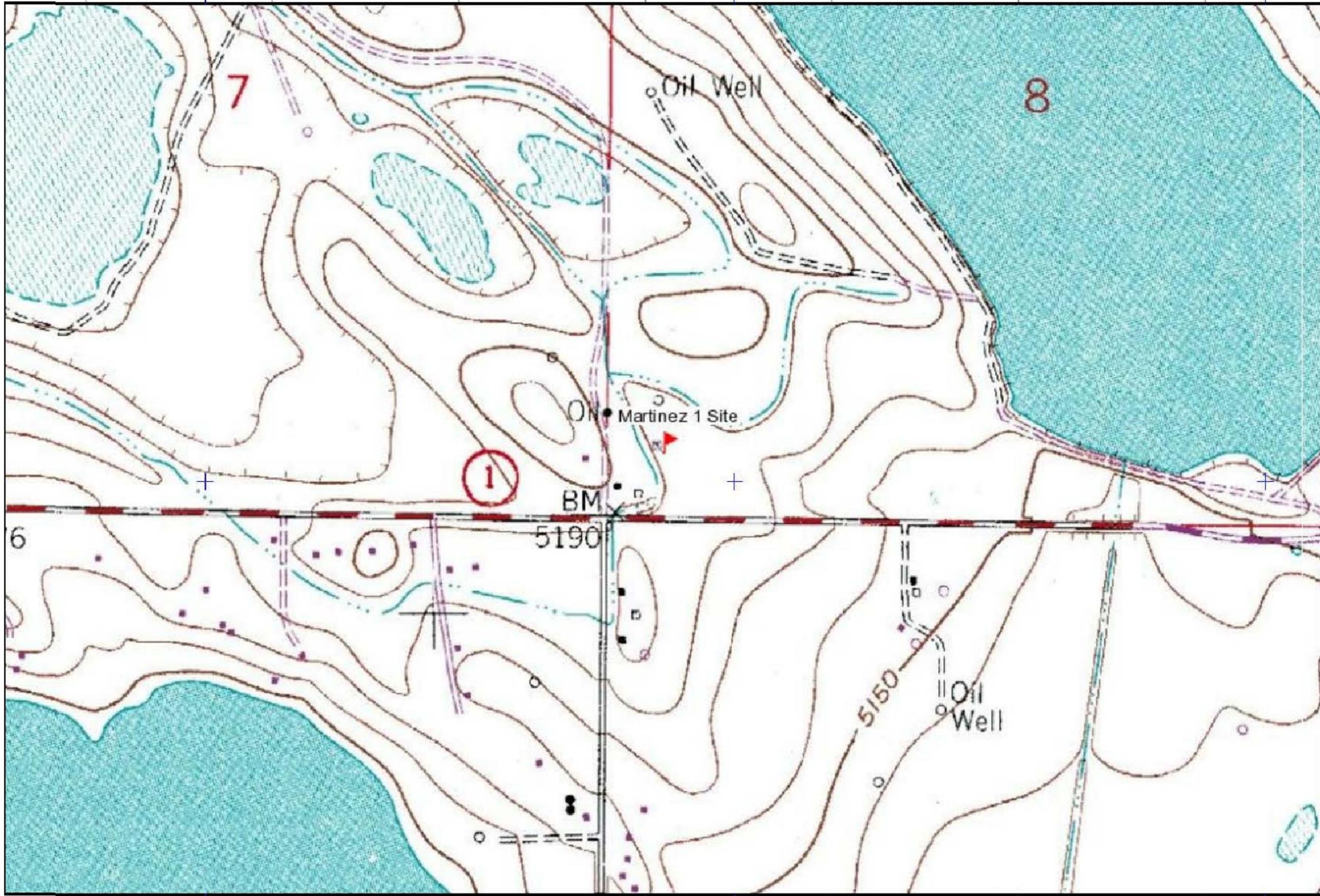
SW-SW-5.5', mg/kg
 GRO = 3.5
 DRO = 800
 TPH = 803.5
 B = <0.0020
 T = <0.0050
 E = <0.0050
 X = <0.0050

SW-SW2-5.5', mg/kg
 GRO = <0.50
 DRO = <50
 TPH = <50
 B = <0.0020
 T = <0.0050
 E = <0.0050
 X = <0.0050



Date: 08/16/2016
 Scale: 1" = 30'
 Drawn By: TJS

Martinez 1
 Prospect Energy
 Larimer County, Colorado
 Figure 2 - Soil Concentration Map (06/03-16/2016)



Martinez 1
Prospect Energy
Larimer County, Colorado
Figure 3 - Topographic Map

Date: 08/15/2016
Scale: 1:10,000
Drawn By: TJS



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 10, 2016

Colby Sterling

Talon/LPE

1811 E Mulberry

Ft Collins, CO 80524

RE: Memorial Martinez

Enclosed are the results of analyses for samples received by Summit Scientific on 06/03/16 16:38. 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 Martinez

Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW N@5.5'	1606038-01	Soil	06/03/16 10:55	06/03/16 16:38
SW NE@5.5'	1606038-02	Soil	06/03/16 11:00	06/03/16 16:38
BH@5.5'	1606038-03	Soil	06/03/16 11:05	06/03/16 16:38
SW S@5.5'	1606038-04	Soil	06/03/16 11:10	06/03/16 16:38
SW SW@5.5'	1606038-05	Soil	06/03/16 11:15	06/03/16 16:38

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez

Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

Summit Scientific

1606038

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

Page 1 of 1

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

Project Manager: Colby Sterling
E-Mail: Csterling@talonLPE.com
Project Name: Memorial Martinez
Project Number: 701959.002.01

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	BTX		
SW N @ 5.5'	6-3-16	10:55	1		X			X				X	X		
SW NE @ 6.5'		11:00													
BH @ 5.5'		11:05													
SW S @ 5.5'		11:10													
SW W @ 5.5'		11:15													
Relinquished by: <u>Amber Galloway</u> Date/Time: <u>6/2/16 16:38</u>				Received by: <u>[Signature]</u> Date/Time: <u>6-3-16 16:38</u>				Turn Around Time (Check)				Notes:			
								Same Day <input type="checkbox"/>				72 Hours <input type="checkbox"/>			
								24 Hours <input type="checkbox"/>				Standard <input checked="" type="checkbox"/>			
								48 Hours <input type="checkbox"/>							
Relinquished by: <u>[Signature]</u> Date/Time: <u>6-3-16 18:5</u>				Received in Lab by: <u>[Signature]</u> Date/Time: <u>[Signature]</u>				Sample Integrity:							
								Temperature Upon Receipt: <u>17.8</u>							
								Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							

www.s2scientific.com



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez

Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

Sample Receipt Checklist

S2 Work Order: 1606038

Client: Talon Client Project ID: Memorial Martinez

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

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

Cooler ID				
Temp (°C)	<u>17.8</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, H2SO4, NaOH, HNO3, 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.

Paul Shawson
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

6-3-16
Date/Time

[Signature]



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

SW N@5.5'
1606038-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/03/16 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	190	50	mg/kg	1	1606048	06/06/16	06/06/16	8015M	

Date Sampled: **06/03/16 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		91.2 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/03/16 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606045	06/06/16	06/07/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.9	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/16 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

SW NE@5.5'
1606038-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/03/16 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1606048	06/06/16	06/06/16	8015M	

Date Sampled: **06/03/16 11:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/03/16 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606045	06/06/16	06/06/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/16 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	21-167		"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

BH@5.5'
1606038-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/03/16 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	57	50	mg/kg	1	1606048	06/06/16	06/06/16	8015M	

Date Sampled: **06/03/16 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		95.0 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/03/16 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606045	06/06/16	06/07/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.1	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/16 11:05**

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>		99.1 %	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 Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

SW S@5.5'
1606038-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 06/03/16 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1200	50	mg/kg	1	1606048	06/06/16	06/06/16	8015M	

Date Sampled: 06/03/16 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		133 %	70-130		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 06/03/16 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606045	06/06/16	06/07/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	24	0.50	"	"	"	"	"	"	

Date Sampled: 06/03/16 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

SW SW@5.5'
1606038-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/03/16 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	800	50	mg/kg	1	1606048	06/06/16	06/06/16	8015M	

Date Sampled: **06/03/16 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		148 %	70-130		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/03/16 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606045	06/06/16	06/07/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.5	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/16 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.6 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1606048 - EPA 3550A

Blank (1606048-BLK1)

Prepared & Analyzed: 06/06/16

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
<i>Surrogate: o-Terphenyl</i>	14.5		"	12.5		116	70-130				

LCS (1606048-BS1)

Prepared & Analyzed: 06/06/16

C10-C28 (DRO)	609	50	mg/kg	499		122	50-150				
C28-C36 (ORO)	5.55	50	"				50-150				
<i>Surrogate: o-Terphenyl</i>	15.4		"	12.5		123	70-130				

Matrix Spike (1606048-MS1)

Source: 1606038-02

Prepared & Analyzed: 06/06/16

C10-C28 (DRO)	646	50	mg/kg	476	ND	136	50-150				
C28-C36 (ORO)	30.5	50	"		ND		50-150				
<i>Surrogate: o-Terphenyl</i>	15.3		"	11.9		128	70-130				

Matrix Spike Dup (1606048-MSD1)

Source: 1606038-02

Prepared & Analyzed: 06/06/16

C10-C28 (DRO)	674	50	mg/kg	481	ND	140	50-150	4.24	20		
C28-C36 (ORO)	31.5	50	"		ND		50-150	3.24	20		
<i>Surrogate: o-Terphenyl</i>	15.5		"	12.0		129	70-130				

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

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 1606045 - EPA 5030 Soil MS

Blank (1606045-BLK1)

Prepared & Analyzed: 06/06/16

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>0.0364</i>		<i>"</i>	<i>0.0400</i>		<i>91.1</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0384</i>		<i>"</i>	<i>0.0400</i>		<i>96.1</i>	<i>21-167</i>			

LCS (1606045-BS1)

Prepared & Analyzed: 06/06/16

Benzene	0.101	0.0020	mg/kg	0.100		101	58-130			
Toluene	0.114	0.0050	"	0.100		114	61-134			
Ethylbenzene	0.121	0.0050	"	0.0992		122	74-139			
m,p-Xylene	0.244	0.010	"	0.200		122	73-137			
o-Xylene	0.112	0.0050	"	0.0980		115	73-141			
Xylenes (total)	0.356	0.0050	"				30-150			
Gasoline Range Hydrocarbons	1.85	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0376</i>		<i>"</i>	<i>0.0400</i>		<i>94.0</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.3</i>	<i>21-167</i>			

Matrix Spike (1606045-MS1)

Source: 1606038-02

Prepared & Analyzed: 06/06/16

Benzene	0.0929	0.0020	mg/kg	0.0917	ND	101	30-131			
Toluene	0.106	0.0050	"	0.0917	ND	115	30-134			
Ethylbenzene	0.109	0.0050	"	0.0910	ND	119	22-153			
m,p-Xylene	0.223	0.010	"	0.183	ND	122	10-159			
o-Xylene	0.104	0.0050	"	0.0899	ND	115	31-151			
Xylenes (total)	0.326	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	1.71	0.50	"		ND		30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0388</i>		<i>"</i>	<i>0.0367</i>		<i>106</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0367</i>		<i>"</i>	<i>0.0367</i>		<i>99.9</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0359</i>		<i>"</i>	<i>0.0367</i>		<i>98.0</i>	<i>21-167</i>			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

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 1606045 - EPA 5030 Soil MS

Matrix Spike Dup (1606045-MSD1)	Source: 1606038-02			Prepared & Analyzed: 06/06/16						
Benzene	0.0987	0.0020	mg/kg	0.0965	ND	102	30-131	6.02	34	
Toluene	0.111	0.0050	"	0.0965	ND	114	30-134	4.56	30	
Ethylbenzene	0.115	0.0050	"	0.0958	ND	120	22-153	6.09	24	
m,p-Xylene	0.234	0.010	"	0.193	ND	121	10-159	4.83	68	
o-Xylene	0.109	0.0050	"	0.0946	ND	116	31-151	5.40	38	
Xylenes (total)	0.343	0.0050	"		ND		30-150	5.01	20	
Gasoline Range Hydrocarbons	1.76	0.50	"		ND		30-150	2.70	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0394</i>		<i>"</i>	<i>0.0386</i>		<i>102</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0390</i>		<i>"</i>	<i>0.0386</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0380</i>		<i>"</i>	<i>0.0386</i>		<i>98.4</i>	<i>21-167</i>			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez

Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/10/16 09:02

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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 23, 2016

Colby Sterling

Talon/LPE

1811 E Mulberry

Ft Collins, CO 80524

RE: Memorial Martinez

Enclosed are the results of analyses for samples received by Summit Scientific on 06/16/16 15:16. 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 Martinez

Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/23/16 13:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-SW-2@5.5'	1606172-01	Soil	06/16/16 09:05	06/16/16 15:16
SW-S-2@5.5'	1606172-02	Soil	06/16/16 09:10	06/16/16 15:16

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez

Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/23/16 13:33

Summit Scientific

1606172

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

Page 1 of 1

Client: Talon/LPE	Project Manager: Colby Sterling
Address: 1811 East Mulberry	E-Mail: csterling@talonlpe.com
City/State/Zip: Fort Collins, CO 80524	Project Name: Memorial - Martinez 1
Phone: 970-818-5330 Fax:	Project Number: 701959.002.01
Sampler Name: Colby Sterling	

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)	BTEX	GRO/DRO			
SW-SW-2 @ 5.5'	6/16/2016	905	1		x			x				x	x			
SW-S-2 @ 5.5'	6/16/2016	910	1		x			x				x	x			
Relinquished by: <i>[Signature]</i>	Date/Time: 6-16-16 15:16	Received by: <i>[Signature]</i>	Date/Time: 6-16-16 15:16	Turn Around Time (Check)				Notes:								
				Same Day	<input type="checkbox"/>	72 Hours	<input type="checkbox"/>									
				24 Hours	<input type="checkbox"/>	Standard	<input checked="" type="checkbox"/>									
				48 Hours	<input type="checkbox"/>											
Relinquished by: <i>[Signature]</i>	Date/Time: 6-16-16 18:45	Received by: <i>[Signature]</i>	Date/Time: 6-16-16 18:45	Sample Integrity:												
				Temperature Upon Receipt:	10.0											
				Intact:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>										

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez

Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/23/16 13:33

Sample Receipt Checklist

S2 Work Order: 1606172

Client: Talon

Client Project ID: Memorial - Martinez 1

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

Airbill #: _____

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

Cooler ID					
Temp (°C)	10.0				

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⁾ ?			X	
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⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
If custody seals are present, are they intact ⁽¹⁾ ?			X	
Are short holding time analytes or samples with HTs due within 48 hours present?			X	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			X	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			X	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			X	
Additional Comments (if any):				

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

Muri Premer
Custodian Printed Name

MS 6-16-16
Signature or Initials of Custodian

18:50
Date/Time



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/23/16 13:33

SW-SW-2@5.5'
1606172-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/16/16 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1606195	06/20/16	06/20/16	8015M	

Date Sampled: **06/16/16 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		94.9 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/16/16 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606194	06/20/16	06/21/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/16/16 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.5 %	21-167		"	"	"	"	

Summit Scientific

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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/23/16 13:33

SW-S-2@5.5'
1606172-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/16/16 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1606195	06/20/16	06/20/16	8015M	

Date Sampled: **06/16/16 09:10**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/16/16 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1606194	06/20/16	06/20/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/16/16 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/23/16 13:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1606195 - EPA 3550A

Blank (1606195-BLK1)

Prepared & Analyzed: 06/20/16

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: <i>o</i> -Terphenyl	14.1		"	12.5		112	30-150			

LCS (1606195-BS1)

Prepared & Analyzed: 06/20/16

C10-C28 (DRO)	524	50	mg/kg	499		105	73-134			
Surrogate: <i>o</i> -Terphenyl	13.7		"	12.5		110	30-150			

Matrix Spike (1606195-MS1)

Source: 1606172-01

Prepared & Analyzed: 06/20/16

C10-C28 (DRO)	475	50	mg/kg	493	ND	96.3	50-148			
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.4		104	30-150			

Matrix Spike Dup (1606195-MSD1)

Source: 1606172-01

Prepared & Analyzed: 06/20/16

C10-C28 (DRO)	456	50	mg/kg	477	ND	95.7	50-148	3.95	13	
Surrogate: <i>o</i> -Terphenyl	11.7		"	12.0		97.6	30-150			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/23/16 13:33

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 1606194 - EPA 5030 Soil MS

Blank (1606194-BLK1)

Prepared: 06/20/16 Analyzed: 06/21/16

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>0.0361</i>		<i>"</i>	<i>0.0400</i>		<i>90.2</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0375</i>		<i>"</i>	<i>0.0400</i>		<i>93.8</i>	<i>21-167</i>			

LCS (1606194-BS1)

Prepared: 06/20/16 Analyzed: 06/21/16

Benzene	0.0953	0.0020	mg/kg	0.100		95.3	58-130			
Toluene	0.111	0.0050	"	0.100		111	61-134			
Ethylbenzene	0.117	0.0050	"	0.0992		118	74-139			
m,p-Xylene	0.243	0.010	"	0.200		122	73-137			
o-Xylene	0.111	0.0050	"	0.0980		114	73-141			
Xylenes (total)	0.354	0.0050	"				30-150			
Gasoline Range Hydrocarbons	1.71	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0353</i>		<i>"</i>	<i>0.0400</i>		<i>88.2</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>98.9</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.6</i>	<i>21-167</i>			

Matrix Spike (1606194-MS1)

Source: 1606172-01

Prepared: 06/20/16 Analyzed: 06/21/16

Benzene	0.0900	0.0020	mg/kg	0.0945	ND	95.2	30-131			
Toluene	0.103	0.0050	"	0.0945	ND	109	30-134			
Ethylbenzene	0.109	0.0050	"	0.0938	ND	116	22-153			
m,p-Xylene	0.226	0.010	"	0.189	ND	120	10-159			
o-Xylene	0.105	0.0050	"	0.0926	ND	114	31-151			
Xylenes (total)	0.332	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	1.58	0.50	"		ND		30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0364</i>		<i>"</i>	<i>0.0378</i>		<i>96.2</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0373</i>		<i>"</i>	<i>0.0378</i>		<i>98.7</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0363</i>		<i>"</i>	<i>0.0378</i>		<i>95.9</i>	<i>21-167</i>			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez
Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/23/16 13:33

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 1606194 - EPA 5030 Soil MS

Matrix Spike Dup (1606194-MSD1)	Source: 1606172-01			Prepared: 06/20/16		Analyzed: 06/21/16				
Benzene	0.0956	0.0020	mg/kg	0.0975	ND	98.1	30-131	6.08	34	
Toluene	0.110	0.0050	"	0.0975	ND	113	30-134	6.62	30	
Ethylbenzene	0.111	0.0050	"	0.0967	ND	115	22-153	1.58	24	
m,p-Xylene	0.229	0.010	"	0.195	ND	118	10-159	1.16	68	
o-Xylene	0.108	0.0050	"	0.0955	ND	113	31-151	2.86	38	
Xylenes (total)	0.337	0.0050	"		ND		30-150	1.70	20	
Gasoline Range Hydrocarbons	1.67	0.50	"		ND		30-150	5.32	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0390</i>		<i>"</i>	<i>0.0390</i>		<i>100</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0390</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0369</i>		<i>"</i>	<i>0.0390</i>		<i>94.6</i>	<i>21-167</i>			

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.



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Memorial Martinez

Project Number: 701959.002.01
Project Manager: Colby Sterling

Reported:
06/23/16 13:33

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

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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 02, 2016

Colby Sterling
Talon/LPE
1811 E Mulberry
Ft Collins, CO 80524
RE: Martinez 1 Line

Enclosed are the results of analyses for samples received by Summit Scientific on 07/26/16 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Martinez 1 Line

Project Number: 702108.002.01
Project Manager: Colby Sterling

Reported:
08/02/16 14:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1	1607187-01	Soil	07/26/16 15:35	07/26/16 16:45
SP-2	1607187-02	Soil	07/26/16 15:40	07/26/16 16:45

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Martinez 1 Line
Project Number: 702108.002.01
Project Manager: Colby Sterling

Reported:
08/02/16 14:27

SP-1
1607187-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/26/16 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	340	50	mg/kg	1	1607301	07/29/16	07/30/16	8015M	

Date Sampled: **07/26/16 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		93.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/26/16 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1607263	07/27/16	07/28/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/26/16 15:35**

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>		97.2 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Martinez 1 Line
Project Number: 702108.002.01
Project Manager: Colby Sterling

Reported:
08/02/16 14:27

SP-2
1607187-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/26/16 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	390	50	mg/kg	1	1607301	07/29/16	07/30/16	8015M	

Date Sampled: **07/26/16 15:40**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/26/16 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1607263	07/27/16	07/28/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/26/16 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Martinez 1 Line
Project Number: 702108.002.01
Project Manager: Colby Sterling

Reported:
08/02/16 14:27

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1607301 - EPA 3550A

Blank (1607301-BLK1)

Prepared & Analyzed: 07/29/16

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.4		"	12.5		99.3	30-150				

LCS (1607301-BS1)

Prepared & Analyzed: 07/29/16

C10-C28 (DRO)	428	50	mg/kg	499		85.8	73-134				
<i>Surrogate: o-Terphenyl</i>	13.0		"	12.5		104	30-150				

Matrix Spike (1607301-MS1)

Source: 1607183-01

Prepared & Analyzed: 07/29/16

C10-C28 (DRO)	671	50	mg/kg	475	376	62.2	50-148				
<i>Surrogate: o-Terphenyl</i>	3.90		"	11.9		32.7	30-150				

Matrix Spike Dup (1607301-MSD1)

Source: 1607183-01

Prepared & Analyzed: 07/29/16

C10-C28 (DRO)	825	50	mg/kg	482	376	93.4	50-148	20.6	20		QM-07
<i>Surrogate: o-Terphenyl</i>	4.57		"	12.1		37.9	30-150				

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Martinez 1 Line
Project Number: 702108.002.01
Project Manager: Colby Sterling

Reported:
08/02/16 14:27

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 1607263 - EPA 5030 Soil MS

Blank (1607263-BLK1)

Prepared & Analyzed: 07/27/16

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>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.7</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>21-167</i>			

LCS (1607263-BS1)

Prepared & Analyzed: 07/27/16

Benzene	0.108	0.0020	mg/kg	0.100		108	58-130			
Toluene	0.122	0.0050	"	0.100		122	61-134			
Ethylbenzene	0.120	0.0050	"	0.0992		121	74-139			
m,p-Xylene	0.250	0.010	"	0.200		125	73-137			
o-Xylene	0.123	0.0050	"	0.0980		126	73-141			
Xylenes (total)	0.374	0.0050	"				30-150			
Gasoline Range Hydrocarbons	1.20	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>21-167</i>			

Matrix Spike (1607263-MS1)

Source: 1607149-01

Prepared & Analyzed: 07/27/16

Benzene	0.110	0.0020	mg/kg	0.0951	ND	116	30-131			
Toluene	0.122	0.0050	"	0.0951	ND	128	30-134			
Ethylbenzene	0.126	0.0050	"	0.0943	ND	134	22-153			
m,p-Xylene	0.262	0.010	"	0.190	ND	138	10-159			
o-Xylene	0.129	0.0050	"	0.0932	ND	139	31-151			
Xylenes (total)	0.391	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	0.422	0.50	"		0.629		30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0399</i>		<i>"</i>	<i>0.0380</i>		<i>105</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0380</i>		<i>"</i>	<i>0.0380</i>		<i>100</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0372</i>		<i>"</i>	<i>0.0380</i>		<i>98.0</i>	<i>21-167</i>			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Martinez 1 Line
Project Number: 702108.002.01
Project Manager: Colby Sterling

Reported:
08/02/16 14:27

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 1607263 - EPA 5030 Soil MS

Matrix Spike Dup (1607263-MSD1)	Source: 1607149-01			Prepared & Analyzed: 07/27/16						
Benzene	0.120	0.0020	mg/kg	0.100	ND	120	30-131	8.04	34	
Toluene	0.131	0.0050	"	0.100	ND	131	30-134	7.31	30	
Ethylbenzene	0.141	0.0050	"	0.0992	ND	142	22-153	11.5	24	
m,p-Xylene	0.290	0.010	"	0.200	ND	145	10-159	10.3	68	
o-Xylene	0.144	0.0050	"	0.0980	ND	147	31-151	10.9	38	
Xylenes (total)	0.434	0.0050	"		ND		30-150	10.5	20	
Gasoline Range Hydrocarbons	ND	0.50	"		0.629		30-150		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0441</i>		<i>"</i>	<i>0.0400</i>		<i>110</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.3</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.6</i>	<i>21-167</i>			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Martinez 1 Line

Project Number: 702108.002.01
Project Manager: Colby Sterling

Reported:
08/02/16 14:27

Notes and Definitions

- 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