



May 18, 2018

Mr. Kyle Waggoner
Whiting Oil and Gas Corporation
208 Racquette Drive
Fort Collins, Colorado 80524

**RE: Confirmation Sampling
Church 36-2523H
Weld County, Colorado
Project # 701530.126.01**

Mr. Waggoner:

During April-May 2018, Talon/LPE conducted soil sampling at the Church 36-2523H site (Site) in Weld County, Colorado. The purpose of the sampling events were to ensure that all hydrocarbon impacted soils had been removed to the extent required by the Colorado Oil and Gas Conservation Commission (COGCC) following cleanup activities of a produced water release.

On April 16, one (1) soil sample (BH-01 @ 1') was collected from the bottom of the release area (Figure 1). The collected sample was analyzed for Total Petroleum Hydrocarbons (TPH) via Gasoline Range Organics (GRO) method EPA8260B and Diesel Range Organics (DRO) method 8015, for Benzene, Toluene, Ethyl-benzene, and Xylenes (BTEX) via method EPA8260B, and for inorganics (Electrical Conductivity (EC), Sodium Adsorption Ratio (SAR), and pH via method USDA60 at Summit Scientific (Summit) in Golden, Colorado. Analytical results for EC (5.35 mmhos/cm) and SAR (13.9) were above COGCC Table 910-1 concentration levels. All remaining results were below COGCC Table 910-1 concentration levels or laboratory detection limits. A soil concentration map is presented in Figure 2, a topographic map is presented in Figure 3, and a breakdown of the soil analytical data is presented in Table 1.

Based on the collected analytical data, excavation was performed by Whiting contractors to a depth of one (1) foot below ground surface (ft bgs) based on visual observation of the release area. On April 19, 2018, Talon/LPE personnel collected 11 grab samples. These samples included seven (7) sidewall samples (SW-1 through SW-7), three (3) bottom hole samples (BH-2 through BH-4), and one (1) sample from the edge of an above-ground storage tank (AST) where impacted soil



was observed (T1). The collected samples were submitted to Summit for analysis of BTEX, TPH and inorganics. Analytical results for EC in sample BH-3@1 ft bgs (11.4 mmhos/cm) and the analytical result for TPH in sample T1@0 ft bgs (7,402.30 mg/kg) were above their respective COGCC Table 910-1 concentration levels. The remaining analytical results were below COGCC Table 910-1 concentration levels or laboratory detection limits.

Based on the collected analytical data, further excavation was performed by Whiting contractors in the areas of BH-3 and T1. On April 27, 2018, Talon/LPE personnel collected two (2) grab samples (BH-3@3' and T1@0.5') and submitted them to Summit for analysis of ED and TPH, respectively. The analytical result for BH-3@3' were below COGCC Table 910-1 concentration level for EC. The analytical result for TPH at T1@0.5' (674.2 mg/kg) was above COGCC Table 910-1 concentration level.

Based on the collected analytical data, Whiting contractors removed the AST adjacent to T1 sample location and performed additional excavation to remove remaining impacts. On May 7, 2018, Talon/LPE personnel collected sample T1@1 ft bgs and submitted it to Summit for analysis of TPH. All analytical results in this sample were below laboratory detection limits, indicating remaining impacts were removed.

Based upon the collected analytical data, Talon/LPE believes that no further corrective action is necessary and that Whiting can request closure from the COGCC. If you have any questions or comments, please do not hesitate to call me at (970) 818-5330.

Respectfully Submitted,

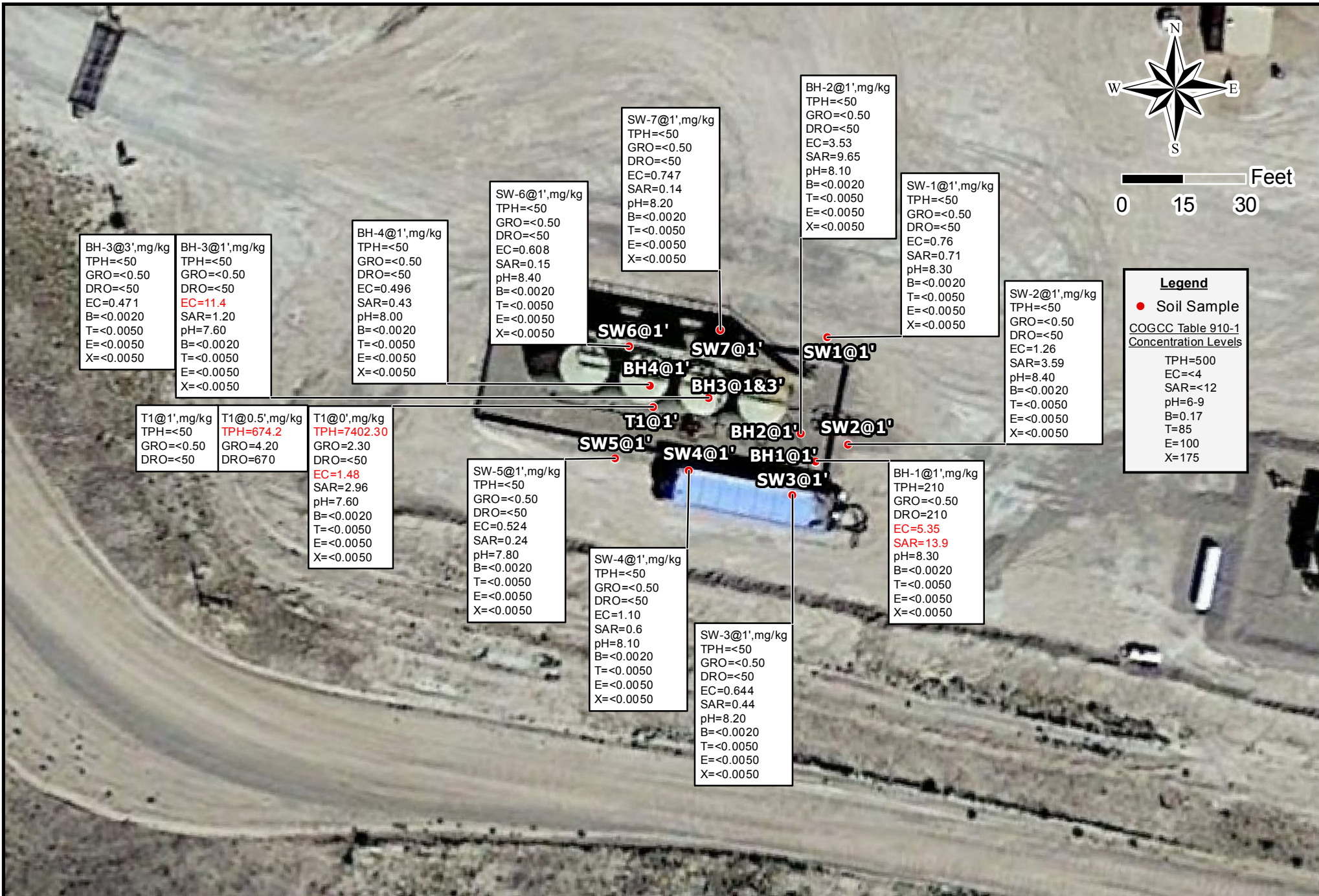
Jennifer Galles
District Manager
Talon/LPE

Attachment 1
Figures



Drafted: 5/18/2018
1 in = 30 ft
Drafted By: IJM

Whiting Oil and Gas Corporation
Church 36-2523H
Weld County, CO
Figure 1 - Site Plan



Drafted: 5/18/2018
 1 in = 30 ft
 Drafted By: IJM

Whiting Oil and Gas Corporation
 Church 36-2523H
 Weld County, CO
 Figure 2 - Soil Concentration Map

**Attachment 2
Tables**



Table 1 - Soil Analytical Data

Whiting Oil & Gas Corporation
 Church 36-2523H
 Weld County, Colorado

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)							mmhos/cm	Units	
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH	EC	SAR	pH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500	<4	<12	6-9
BH-01	1	4/16/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	210	210	5.35	13.9	8.30
SW-1	1	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.76	0.71	8.40
SW-2	1	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	1.26	3.59	8.20
SW-3	1	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.644	0.440	8.10
SW-4	1	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	1.10	0.60	7.80
SW-5	1	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.524	0.240	8.4
SW-6	1	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.608	0.150	8.2
SW-7	1	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.747	0.140	8.1
BH-2	1	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	3.53	9.65	7.60
BH-3	1	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	11.4	1.2	7.00
BH-3	3	4/27/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.471	N/A	N/A
BH-4	1	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.496	0.43	8.00
T1	0	4/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	2.3	7400	7402.30	1.48	2.96	7.60
T1	0.5	4/27/2018	N/A	N/A	N/A	N/A	4.2	670	674.2	N/A	N/A	N/A
T1	1	5/7/2018	N/A	N/A	N/A	N/A	<0.50	<50	<50	N/A	N/A	N/A

mg/kg - milligrams per kilogram
 mmhos/cm - millimhos per centimeter
 < - 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)
 EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio
 NA - Not Analyzed
 BGS - Below Ground Surface

Attachment 3
Analytical Reports

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 08, 2018

Jennifer Galles
Talon/LPE
1811 East Mulberry
Fort Collins, CO 80525
RE: Church 36-2523H

Enclosed are the results of analyses for samples received by Summit Scientific on 05/07/18 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Ben Shrewsbury
Laboratory Manager



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
05/08/18 17:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T1@1'	1805071-01	Soil	05/07/18 14:55	05/07/18 16:30

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.

Summit Scientific

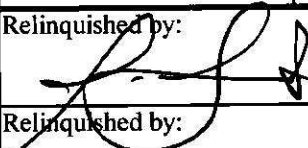
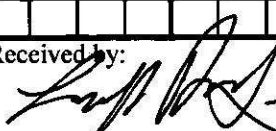
1805071

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

Page 1 of 1

Client: Talon/LPE - Bill to Whiting
Address: 1811 East Mulberry
City/State/Zip: Fort Collins, CO 80524
Phone: 970-818-5330 Fax: _____
Sampler Name: Jason Leverton

Project Manager: Jennifer Galles
E-Mail: jgalles@talonlpe.com and jleverton@talonlpe.com
Project Name: Church 36-2523H
Project Number: 701530.126.01

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									
T1 @ 1'	5/7/2018	14:55	1			x		x				x									
Relinquished by:  Date/Time: <u>5.7.18 16.30</u>				Received by:  Date/Time: <u>5/7/18 1630</u>				Turn Around Time (Check)													
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>													
Relinquished by: _____ Date/Time: _____				Received in Lab by: _____ Date/Time: _____				24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>													
Relinquished by: _____ Date/Time: _____				Received in Lab by: _____ Date/Time: _____				48 Hours <input type="checkbox"/>													
Relinquished by: _____ Date/Time: _____				Received in Lab by: _____ Date/Time: _____				Sample Integrity: Temperature Upon Receipt: <u>14.3</u>													
Relinquished by: _____ Date/Time: _____				Received in Lab by: _____ Date/Time: _____				Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													

Sample Receipt Checklist

S2 Work Order: 1805071

Client: TALON LPE Client Project ID: CHURCH 36-2523H

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

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

Cooler ID				
Temp (°C)	14.3 ^c			

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? 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⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

CP
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

5/2/18 1811
Date/Time



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
05/08/18 17:09

T1@1'
1805071-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/07/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	1805070	05/07/18	05/08/18	EPA 8260B	

Date Sampled: **05/07/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		93.8 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/07/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1805072	05/07/18	05/08/18	EPA 8015M	

Date Sampled: **05/07/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.9 %	30-150		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
05/08/18 17:09

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 1805070 - EPA 5030 Soil MS

Blank (1805070-BLK1)

Prepared: 05/07/18 Analyzed: 05/08/18

Gasoline Range Hydrocarbons	ND	0.50	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0396		97.8	70-130			
Surrogate: Toluene-d8	0.0371		"	0.0400		92.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		105	70-130			

LCS (1805070-BS1)

Prepared: 05/07/18 Analyzed: 05/08/18

Surrogate: 1,2-Dichloroethane-d4	0.0372		mg/kg	0.0396		93.9	70-130			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	70-130			

Matrix Spike (1805070-MS1)

Source: 1805064-01

Prepared: 05/07/18 Analyzed: 05/08/18

Surrogate: 1,2-Dichloroethane-d4	0.0401		mg/kg	0.0396		101	70-130			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.5	70-130			

Matrix Spike Dup (1805070-MSD1)

Source: 1805064-01

Prepared: 05/07/18 Analyzed: 05/08/18

Surrogate: 1,2-Dichloroethane-d4	0.0400		mg/kg	0.0396		101	70-130			
Surrogate: Toluene-d8	0.0379		"	0.0400		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	70-130			

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 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 05/08/18 17:09

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1805072 - EPA 3550A

Blank (1805072-BLK1)		Prepared: 05/07/18 Analyzed: 05/08/18								
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1805072-BS1)		Prepared: 05/07/18 Analyzed: 05/08/18								
C10-C28 (DRO)	429	50	mg/kg	500	27.8	85.8	81.4-129			
Matrix Spike (1805072-MS1)		Source: 1805064-01		Prepared: 05/07/18 Analyzed: 05/08/18						
C10-C28 (DRO)	446	50	mg/kg	500	27.8	83.5	77.8-133			
Matrix Spike Dup (1805072-MSD1)		Source: 1805064-01		Prepared: 05/07/18 Analyzed: 05/08/18						
C10-C28 (DRO)	446	50	mg/kg	500	27.8	83.7	77.8-133	0.198	8.48	

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.



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
05/08/18 17:09

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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 27, 2018

Jennifer Galles
Talon/LPE
1811 East Mulberry
Fort Collins, CO 80525
RE: Church 36-2523H

Enclosed are the results of analyses for samples received by Summit Scientific on 04/25/18 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/27/18 08:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-3@3'	1804342-01	Soil	04/25/18 12:10	04/25/18 17:40
T1@6"	1804342-02	Soil	04/25/18 12:10	04/25/18 17:40

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.

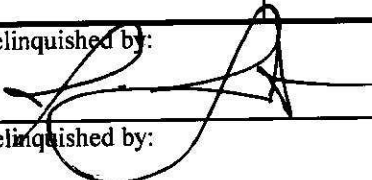

Summit Scientific

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

1804342

Client: Talon/LPE - Bill to Whiting
Address: 1811 East Mulberry
City/State/Zip: Fort Collins, CO 80524
Phone: 970-818-5330 Fax: _____
Sampler Name: Jason Leverton/Levi Kirk

Project Manager: Jennifer Galles
E-Mail: jgalles@talonlpe.com and jleverton@talonlpe.com
Project Name: Church 36-2523H
Project Number: 701530.126.01

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)	EC	TPH												
BH-3 #3'	4/25/2018	12:10	1		x			x					x												
T1 @6"	4/25/2018	12:15	1		x			x						x											
Relinquished by: 				Date/Time: <u>4.25.18 15:30</u>				Received by: 				Date/Time: <u>4/25/18 1530</u>				Turn Around Time (Check)									
Relinquished by: _____				Date/Time: _____				Received by: _____				Date/Time: _____				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>									
Relinquished by: _____				Date/Time: _____				Received in Lab by: _____				Date/Time: _____				24 Hours <input checked="" type="checkbox"/> Standard <input type="checkbox"/>									
Relinquished by: _____				Date/Time: _____				Received in Lab by: _____				Date/Time: _____				48 Hours <input type="checkbox"/>									
Relinquished by: _____				Date/Time: _____				Received in Lab by: _____				Date/Time: _____				Sample Integrity: Temperature Upon Receipt: <u>12.5°</u>									
Relinquished by: _____				Date/Time: _____				Received in Lab by: _____				Date/Time: _____				Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									

Sample Receipt Checklist

S2 Work Order: 1804342

Client: TALON/LPC - BILL TO WHITING Client Project ID: CHURCH 36 2523H

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

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

Cooler ID				
Temp (°C)	12.50			

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.		✓		
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? 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⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

LP
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

4/25/2018 16:15
Date/Time



Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/27/18 08:41

BH-3@3'
1804342-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/25/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.471	0.0100	mmhos/cm	1	1804283	04/26/18	04/26/18	EPA 120.1	

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 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/27/18 08:41

T1@6"
1804342-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/25/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804266	04/25/18	04/25/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	4.2	0.50	"	"	"	"	"	"	

Date Sampled: **04/25/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		92.0 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/25/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	670	50	mg/kg	1	1804267	04/25/18	04/25/18	EPA 8015M	

Date Sampled: **04/25/18 12:10**

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

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/27/18 08:41

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 1804266 - EPA 5030 Soil MS

Blank (1804266-BLK1)

Prepared & Analyzed: 04/25/18

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>0.0365</i>		<i>"</i>	<i>0.0396</i>		<i>92.1</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.6</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>70-130</i>			

LCS (1804266-BS1)

Prepared & Analyzed: 04/25/18

Benzene	0.0808	0.0020	mg/kg	0.100		80.8	70-130			
Toluene	0.112	0.0050	"	0.100		112	70-130			
Ethylbenzene	0.117	0.0050	"	0.100		117	70-130			
m,p-Xylene	0.232	0.010	"	0.200		116	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
Gasoline Range Hydrocarbons	2.34	0.50	"				0-200			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0354</i>		<i>"</i>	<i>0.0396</i>		<i>89.3</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.5</i>	<i>70-130</i>			

Matrix Spike (1804266-MS1)

Source: 1804341-01

Prepared & Analyzed: 04/25/18

Benzene	0.0919	0.0020	mg/kg	0.100	ND	91.9	70-130			
Toluene	0.107	0.0050	"	0.100	ND	107	70-130			
Ethylbenzene	0.132	0.0050	"	0.100	ND	132	70-130			
m,p-Xylene	0.262	0.010	"	0.200	ND	131	70-130			
o-Xylene	0.126	0.0050	"	0.100	ND	126	70-130			
Gasoline Range Hydrocarbons	2.98	0.50	"		ND		0-200			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0362</i>		<i>"</i>	<i>0.0396</i>		<i>91.5</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>93.1</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0421</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>70-130</i>			

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/27/18 08:41

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 1804266 - EPA 5030 Soil MS

Matrix Spike Dup (1804266-MSD1)	Source: 1804341-01			Prepared & Analyzed: 04/25/18						
Benzene	0.0919	0.0020	mg/kg	0.100	ND	91.9	70-130	0.0326	30	
Toluene	0.107	0.0050	"	0.100	ND	107	70-130	0.337	30	
Ethylbenzene	0.131	0.0050	"	0.100	ND	131	70-130	0.617	30	
m,p-Xylene	0.262	0.010	"	0.200	ND	131	70-130	0.00	30	
o-Xylene	0.126	0.0050	"	0.100	ND	126	70-130	0.00	30	
Gasoline Range Hydrocarbons	2.70	0.50	"		ND		0-200	9.95	200	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0388</i>		<i>"</i>	<i>0.0396</i>		<i>98.0</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0370</i>		<i>"</i>	<i>0.0400</i>		<i>92.4</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.3</i>	<i>70-130</i>			

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/27/18 08:41

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 1804267 - EPA 3550A

Blank (1804267-BLK1)

Prepared & Analyzed: 04/25/18

C10-C28 (DRO) ND 50 mg/kg

LCS (1804267-BS1)

Prepared & Analyzed: 04/25/18

C10-C28 (DRO) 523 50 mg/kg 500 105 81.4-129

Matrix Spike (1804267-MS1)

Source: 1804341-01

Prepared & Analyzed: 04/25/18

C10-C28 (DRO) 470 50 mg/kg 500 15.8 90.7 77.8-133

Matrix Spike Dup (1804267-MSD1)

Source: 1804341-01

Prepared & Analyzed: 04/25/18

C10-C28 (DRO) 476 50 mg/kg 500 15.8 92.0 77.8-133 1.33 8.48

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/27/18 08:41

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch 1804283 - General Preparation

Duplicate (1804283-DUP1)	Source: 1804110-01			Prepared & Analyzed: 04/26/18		
Specific Conductance (EC)	0.451	0.0100	mmhos/cm	0.448	0.667	20

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/27/18 08:41

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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 23, 2018

Jennifer Galles
Talon/LPE
1811 East Mulberry
Fort Collins, CO 80525
RE: Church 36-2523H

Enclosed are the results of analyses for samples received by Summit Scientific on 04/20/18 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1@1'	1804291-01	Soil	04/19/18 15:20	04/20/18 10:00
SW-2@1'	1804291-02	Soil	04/19/18 15:22	04/20/18 10:00
SW-3@1'	1804291-03	Soil	04/19/18 15:24	04/20/18 10:00
SW-4@1'	1804291-04	Soil	04/19/18 15:26	04/20/18 10:00
SW-5@1'	1804291-05	Soil	04/19/18 15:28	04/20/18 10:00
SW-6@1'	1804291-06	Soil	04/19/18 15:30	04/20/18 10:00
SW-7@1'	1804291-07	Soil	04/19/18 15:40	04/20/18 10:00
BH-2@1'	1804291-08	Soil	04/19/18 15:32	04/20/18 10:00
BH-3@1'	1804291-09	Soil	04/19/18 15:34	04/20/18 10:00
BH-4@1'	1804291-10	Soil	04/19/18 15:36	04/20/18 10:00
T1@0'	1804291-11	Soil	04/19/18 15:38	04/20/18 10:00

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

SW-1@1'
1804291-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.7 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.6 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:20**

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

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5380	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	619	1.00	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

SW-1@1'
1804291-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Sodium	207	5.00	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B
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Calculated Analysis

Date Sampled: **04/19/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.710	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.760	0.0100	mmhos/cm	1	1804193	04/20/18	04/20/18	EPA 120.1	
% Solids	81.9		%	"	1804192	04/20/18	04/20/18	Calculation	
pH	8.4		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

SW-2@1'
1804291-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		105 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:22**

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

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1170	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	490	1.00	"	"	"	"	"	"	
Sodium	579	5.00	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H
 Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

SW-2@1'
1804291-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **04/19/18 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.59	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.0		%	1	1804192	04/20/18	04/20/18	Calculation	
Specific Conductance (EC)	1.26	0.0100	mmhos/cm	"	1804193	04/20/18	04/20/18	EPA 120.1	
pH	8.2		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

SW-3@1'
1804291-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.3 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.3 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.1 %	30-150		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2890	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	413	1.00	"	"	"	"	"	"	
Sodium	95.4	5.00	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

SW-3@1'
1804291-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **04/19/18 15:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.440	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	1804192	04/20/18	04/20/18	Calculation	
Specific Conductance (EC)	0.644	0.0100	mmhos/cm	"	1804193	04/20/18	04/20/18	EPA 120.1	
pH	8.1		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

SW-4@1'
1804291-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.1 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.7 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.9 %	30-150		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3380	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	678	1.00	"	"	"	"	"	"	
Sodium	145	5.00	"	"	"	"	"	"	

Summit Scientific

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



Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

SW-4@1'
1804291-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **04/19/18 15:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.600	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.5		%	1	1804192	04/20/18	04/20/18	Calculation	
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	"	1804193	04/20/18	04/20/18	EPA 120.1	
pH	7.8		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

SW-5@1'
1804291-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		103 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.1 %	30-150		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5450	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	451	1.00	"	"	"	"	"	"	
Sodium	67.3	5.00	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H
 Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

SW-5@1'
1804291-05 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **04/19/18 15:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.240	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.524	0.0100	mmhos/cm	1	1804193	04/20/18	04/20/18	EPA 120.1	
% Solids	78.4		%	"	1804192	04/20/18	04/20/18	Calculation	
pH	8.4		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

SW-6@1'
1804291-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.4 %	30-150		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	9880	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	999	1.00	"	"	"	"	"	"	
Sodium	57.8	5.00	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

SW-6@1'
1804291-06 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **04/19/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.150	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.608	0.0100	mmhos/cm	1	1804193	04/20/18	04/20/18	EPA 120.1	
% Solids	79.5		%	"	1804192	04/20/18	04/20/18	Calculation	
pH	8.2		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

SW-7@1'
1804291-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.9 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		105 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.2 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:40**

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

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	9300	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	687	1.00	"	"	"	"	"	"	
Sodium	53.2	5.00	"	"	"	"	"	"	

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H
 Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

SW-7@1'
1804291-07 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **04/19/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.140	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.747	0.0100	mmhos/cm	1	1804193	04/20/18	04/20/18	EPA 120.1	
% Solids	76.2		%	"	1804192	04/20/18	04/20/18	Calculation	
pH	8.1		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

BH-2@1'
1804291-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.7 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		105 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.5 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.3 %	30-150		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1360	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	393	1.00	"	"	"	"	"	"	
Sodium	1570	5.00	"	"	"	"	"	"	

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

BH-2@1'
1804291-08 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **04/19/18 15:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.65	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.2		%	1	1804192	04/20/18	04/20/18	Calculation	
Specific Conductance (EC)	3.53	0.0100	mmhos/cm	"	1804193	04/20/18	04/20/18	EPA 120.1	
pH	7.6		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

BH-3@1'
1804291-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.5 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.8 %	30-150		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2400	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	524	1.00	"	"	"	"	"	"	
Sodium	250	5.00	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

BH-3@1'
1804291-09 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **04/19/18 15:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.21	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.2		%	1	1804192	04/20/18	04/20/18	Calculation	
Specific Conductance (EC)	11.4	0.0100	mmhos/cm	"	1804193	04/20/18	04/20/18	EPA 120.1	
pH	7.0		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

BH-4@1'
1804291-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		76.4 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		106 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.6 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.3 %	30-150		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1640	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	415	1.00	"	"	"	"	"	"	
Sodium	74.6	5.00	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

BH-4@1'
1804291-10 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **04/19/18 15:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.430	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.0		%	1	1804192	04/20/18	04/20/18	Calculation	
Specific Conductance (EC)	0.496	0.0100	mmhos/cm	"	1804193	04/20/18	04/20/18	EPA 120.1	
pH	8.0		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

T1@0'
1804291-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/18 15:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804198	04/20/18	04/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.3	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/18 15:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		103 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/18 15:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	7400	50	mg/kg	1	1804199	04/20/18	04/21/18	EPA 8015M	

Date Sampled: **04/19/18 15:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		1160 %	30-150		"	"	"	"	S-02

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/19/18 15:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2920	2.50	mg/kg dry	1	1804191	04/20/18	04/21/18	EPA 6020B	
Magnesium	402	1.00	"	"	"	"	"	"	
Sodium	643	5.00	"	"	"	"	"	"	

Summit Scientific

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



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

T1@0'
1804291-11 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **04/19/18 15:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.96	0.100	units	1	1804225	04/23/18	04/23/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/19/18 15:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.48	0.0100	mmhos/cm	1	1804193	04/20/18	04/20/18	EPA 120.1	
% Solids	85.9		%	"	1804192	04/20/18	04/20/18	Calculation	
pH	7.6		pH Units	"	1804194	04/20/18	04/20/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

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 1804198 - EPA 5030 Soil MS

Blank (1804198-BLK1)

Prepared: 04/20/18 Analyzed: 04/21/18

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	0.0456		"	0.0396		115	70-130			
Surrogate: Toluene-d8	0.0384		"	0.0400		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.7	70-130			

LCS (1804198-BS1)

Prepared: 04/20/18 Analyzed: 04/21/18

Benzene	0.0736	0.0020	mg/kg	0.100		73.6	70-130			
Toluene	0.0863	0.0050	"	0.100		86.3	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.209	0.010	"	0.200		105	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
Gasoline Range Hydrocarbons	2.76	0.50	"				0-200			
Surrogate: 1,2-Dichloroethane-d4	0.0447		"	0.0396		113	70-130			
Surrogate: Toluene-d8	0.0378		"	0.0400		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	70-130			

Matrix Spike (1804198-MS1)

Source: 1804292-01

Prepared: 04/20/18 Analyzed: 04/21/18

Benzene	0.0743	0.0020	mg/kg	0.100	ND	74.3	70-130			
Toluene	0.0877	0.0050	"	0.100	ND	87.7	70-130			
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
m,p-Xylene	0.211	0.010	"	0.200	ND	106	70-130			
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130			
Gasoline Range Hydrocarbons	2.71	0.50	"		0.0130		0-200			
Surrogate: 1,2-Dichloroethane-d4	0.0444		"	0.0396		112	70-130			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	70-130			

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

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 1804198 - EPA 5030 Soil MS

Matrix Spike Dup (1804198-MSD1)	Source: 1804292-01			Prepared: 04/20/18	Analyzed: 04/21/18					
Benzene	0.0727	0.0020	mg/kg	0.100	ND	72.7	70-130	2.16	30	
Toluene	0.0866	0.0050	"	0.100	ND	86.6	70-130	1.34	30	
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	1.48	30	
m,p-Xylene	0.208	0.010	"	0.200	ND	104	70-130	1.56	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	0.318	30	
Gasoline Range Hydrocarbons	2.63	0.50	"		0.0130		0-200	3.01	200	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0443</i>		<i>"</i>	<i>0.0396</i>		<i>112</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0375</i>		<i>"</i>	<i>0.0400</i>		<i>93.7</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>70-130</i>			

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1804199 - EPA 3550A

Blank (1804199-BLK1)		Prepared & Analyzed: 04/20/18									
C10-C28 (DRO)	ND	50	mg/kg								
LCS (1804199-BS1)		Prepared & Analyzed: 04/20/18									
C10-C28 (DRO)	519	50	mg/kg	500	104	81.4-129					
Matrix Spike (1804199-MS1)		Source: 1804292-01		Prepared & Analyzed: 04/20/18							
C10-C28 (DRO)	457	50	mg/kg	500	17.8	87.9	77.8-133				
Matrix Spike Dup (1804199-MSD1)		Source: 1804292-01		Prepared & Analyzed: 04/20/18							
C10-C28 (DRO)	470	50	mg/kg	500	17.8	90.4	77.8-133	2.74	8.48		

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1804191 - General Preparation

Blank (1804191-BLK1)

Prepared: 04/20/18 Analyzed: 04/21/18

Calcium	ND	2.50	mg/kg wet							
Magnesium	ND	1.00	"							
Sodium	ND	5.00	"							

LCS (1804191-BS1)

Prepared: 04/20/18 Analyzed: 04/21/18

Calcium	523	2.50	mg/kg wet	500		105	70-130			
Magnesium	494	1.00	"	500		98.8	70-130			
Sodium	485	5.00	"	500		96.9	70-130			

Duplicate (1804191-DUP1)

Source: 1804099-01

Prepared: 04/20/18 Analyzed: 04/21/18

Calcium	13100	2.50	mg/kg dry		14200			8.04	20	
Magnesium	1630	1.00	"		1810			10.6	20	
Sodium	122	5.00	"		130			6.86	20	

Matrix Spike (1804191-MS1)

Source: 1804099-01

Prepared: 04/20/18 Analyzed: 04/21/18

Calcium	12400	2.50	mg/kg dry	583	14200	NR	70-130			QM-02
Magnesium	2330	1.00	"	583	1810	89.1	70-130			
Sodium	675	5.00	"	583	130	93.4	70-130			

Matrix Spike Dup (1804191-MSD1)

Source: 1804099-01

Prepared: 04/20/18 Analyzed: 04/21/18

Calcium	12000	2.50	mg/kg dry	583	14200	NR	70-130	3.43	25	QM-02
Magnesium	2320	1.00	"	583	1810	88.0	70-130	0.260	25	
Sodium	664	5.00	"	583	130	91.5	70-130	1.71	25	

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/23/18 15:08

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch 1804192 - General Preparation

Duplicate (1804192-DUP1)	Source: 1804291-01			Prepared & Analyzed: 04/20/18						
% Solids	85.8		%		81.9			4.65	20	

Batch 1804193 - General Preparation

Duplicate (1804193-DUP1)	Source: 1804291-01			Prepared & Analyzed: 04/20/18						
Specific Conductance (EC)	0.781	0.0100	mmhos/cm		0.760			2.66	20	

Batch 1804194 - General Preparation

Duplicate (1804194-DUP1)	Source: 1804291-01			Prepared & Analyzed: 04/20/18						
pH	8.3		pH Units		8.4			1.44	20	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/23/18 15:08

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-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- 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

April 18, 2018

Jennifer Galles
Talon/LPE
1811 East Mulberry
Fort Collins, CO 80525
RE: Church 36-2523H

Enclosed are the results of analyses for samples received by Summit Scientific on 04/17/18 16:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/18/18 07:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-01@1'	1804250-01	Soil	04/16/18 16:10	04/17/18 16:05

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.

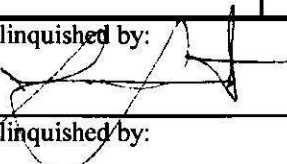
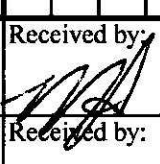
1804250

Summit Scientific

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

Client: Talon/LPE - Bill to Whiting
 Address: 1811 East Mulberry
 City/State/Zip: Fort Collins, CO 80524
 Phone: 970-818-5330 Fax:
 Sampler Name: Jennifer Galles/Levi Kirk

Project Manager: Jennifer Galles
 E-Mail: jgalles@talonlpe.com and jleverton@talonlpe.com
 Project Name: ~~303-277-9310~~ Church 36-2523H
 Project Number: 701530.126.01

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)	BTEX	GRO/DRO	EC	SAR		pH	
BH-01@1'	4/16/2018	16:10	1		x			x				x	x	x	x	x		
Relinquished by: 	Date/Time: 4.17.18 16:05	Received by: 	Date/Time: 4/17/18 1605	Turn Around Time (Check)				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>					Standard <input checked="" type="checkbox"/>					
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 Hours <input type="checkbox"/>				Sample Integrity:										
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Temperature Upon Receipt: 14.2°C				Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										

1804250

Sample Receipt Checklist

S2 Work Order: _____

Client: Talon/LPE

Client Project ID: ~~Razor 275~~ Church 36-2523H

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

Airbill #: _____

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

Cooler ID					
Temp (°C)	14.2				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.		✓		
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? 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⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	

Additional Comments (if any):

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

Nakita
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

4/17/18 1700
Date/Time



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/18/18 07:23

BH-01@1'
1804250-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804142	04/17/18	04/17/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	210	50	mg/kg	1	1804143	04/17/18	04/17/18	EPA 8015M	

Date Sampled: **04/16/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/16/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	7360	2.50	mg/kg dry	1	1804121	04/17/18	04/17/18	EPA 6020B	
Magnesium	1960	1.00	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
 1811 East Mulberry
 Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
 Project Manager: Jennifer Galles

Reported:
 04/18/18 07:23

BH-01@1'
1804250-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Sodium	5190	5.00 mg/kg dry	1	1804121	04/17/18	04/17/18	EPA 6020B
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Calculated Analysis

Date Sampled: **04/16/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.9	0.100	units	1	1804146	04/18/18	04/18/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.35	0.0100	mmhos/cm	1	1804138	04/17/18	04/17/18	EPA 120.1	
% Solids	89.3		%	"	1804145	04/17/18	04/18/18	Calculation	
pH	8.3		pH Units	"	1804144	04/17/18	04/17/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/18/18 07:23

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 1804142 - EPA 5030 Soil MS

Blank (1804142-BLK1)

Prepared: 04/17/18 Analyzed: 04/18/18

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>0.0425</i>		<i>"</i>	<i>0.0396</i>		<i>107</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.8</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.1</i>	<i>21-167</i>			

LCS (1804142-BS1)

Prepared: 04/17/18 Analyzed: 04/18/18

Benzene	0.0747	0.0020	mg/kg	0.100		74.7	61-139			
Toluene	0.0895	0.0050	"	0.100		89.5	64-132			
Ethylbenzene	0.103	0.0050	"	0.100		103	68.7-135			
m,p-Xylene	0.199	0.010	"	0.200		99.7	70.4-129			
o-Xylene	0.103	0.0050	"	0.100		103	66.9-126			
Gasoline Range Hydrocarbons	2.66	0.50	"				0-200			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0431</i>		<i>"</i>	<i>0.0396</i>		<i>109</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.5</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.6</i>	<i>21-167</i>			

Matrix Spike (1804142-MS1)

Source: 1804251-01

Prepared: 04/17/18 Analyzed: 04/18/18

Benzene	0.0759	0.0020	mg/kg	0.100	ND	75.9	42.9-137			
Toluene	0.0897	0.0050	"	0.100	ND	89.7	42.6-130			
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	39-133			
m,p-Xylene	0.205	0.010	"	0.200	ND	103	34.7-134			
o-Xylene	0.103	0.0050	"	0.100	ND	103	41.3-126			
Gasoline Range Hydrocarbons	2.66	0.50	"		0.00504		0-200			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0454</i>		<i>"</i>	<i>0.0396</i>		<i>115</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>21-167</i>			

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/18/18 07:23

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 1804142 - EPA 5030 Soil MS

Matrix Spike Dup (1804142-MSD1)	Source: 1804251-01			Prepared: 04/17/18		Analyzed: 04/18/18				
Benzene	0.0767	0.0020	mg/kg	0.100	ND	76.7	42.9-137	1.06	17.9	
Toluene	0.0903	0.0050	"	0.100	ND	90.3	42.6-130	0.600	11.9	
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	39-133	2.96	30	
m,p-Xylene	0.208	0.010	"	0.200	ND	104	34.7-134	1.13	30	
o-Xylene	0.102	0.0050	"	0.100	ND	102	41.3-126	1.18	30	
Gasoline Range Hydrocarbons	2.74	0.50	"		0.00504		0-200	2.88	200	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0442</i>		<i>"</i>	<i>0.0396</i>		<i>112</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.6</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.5</i>	<i>21-167</i>			

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Project: Church 36-2523H

Project Number: 701530.126.01
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Reported:
 04/18/18 07:23

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1804143 - EPA 3550A

Blank (1804143-BLK1)		Prepared: 04/17/18 Analyzed: 04/18/18									
C10-C28 (DRO)	ND	50	mg/kg								
LCS (1804143-BS1)		Prepared: 04/17/18 Analyzed: 04/18/18									
C10-C28 (DRO)	473	50	mg/kg	500	94.7	81.4-129					
Matrix Spike (1804143-MS1)		Source: 1804251-01		Prepared: 04/17/18 Analyzed: 04/18/18							
C10-C28 (DRO)	504	50	mg/kg	500	35.3	93.7	77.8-133				
Matrix Spike Dup (1804143-MSD1)		Source: 1804251-01		Prepared: 04/17/18 Analyzed: 04/18/18							
C10-C28 (DRO)	475	50	mg/kg	500	35.3	88.0	77.8-133	5.82	8.48		

Summit Scientific

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Reported:
04/18/18 07:23

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1804121 - General Preparation

Blank (1804121-BLK1)

Prepared: 04/16/18 Analyzed: 04/17/18

Calcium	ND	2.50	mg/kg wet							
Magnesium	ND	1.00	"							
Sodium	ND	5.00	"							

LCS (1804121-BS1)

Prepared: 04/16/18 Analyzed: 04/17/18

Calcium	1120	2.50	mg/kg wet	1000		112	70-130			
Magnesium	1180	1.00	"	1000		118	70-130			
Sodium	1220	5.00	"	1000		122	70-130			

Duplicate (1804121-DUP1)

Source: 1804237-01

Prepared: 04/16/18 Analyzed: 04/17/18

Calcium	11100	2.50	mg/kg dry		10200			8.55	20	
Magnesium	1670	1.00	"		1570			5.79	20	
Sodium	260	5.00	"		259			0.300	20	

Matrix Spike (1804121-MS1)

Source: 1804237-01

Prepared: 04/16/18 Analyzed: 04/17/18

Calcium	11600	2.50	mg/kg dry	1230	10200	111	70-130			
Magnesium	2800	1.00	"	1230	1570	100	70-130			
Sodium	1680	5.00	"	1230	259	116	70-130			

Matrix Spike Dup (1804121-MSD1)

Source: 1804237-01

Prepared: 04/16/18 Analyzed: 04/17/18

Calcium	11600	2.50	mg/kg dry	1230	10200	110	70-130	0.0979	25	
Magnesium	2900	1.00	"	1230	1570	108	70-130	3.55	25	
Sodium	1670	5.00	"	1230	259	115	70-130	0.866	25	

Summit Scientific

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Talon/LPE
 1811 East Mulberry
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Project: Church 36-2523H

Project Number: 701530.126.01
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Reported:
 04/18/18 07:23

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch 1804138 - General Preparation

Duplicate (1804138-DUP1)	Source: 1804250-01		Prepared & Analyzed: 04/17/18								
Specific Conductance (EC)	5.36	0.0100	mmhos/cm		5.35				0.187	20	

Batch 1804144 - General Preparation

Duplicate (1804144-DUP1)	Source: 1804250-01		Prepared & Analyzed: 04/17/18								
pH	8.4		pH Units		8.3				0.240	20	

Batch 1804145 - General Preparation

Duplicate (1804145-DUP1)	Source: 1804166-01		Prepared: 04/17/18 Analyzed: 04/18/18								
% Solids	88.1		%		91.0				3.24	20	

Summit Scientific

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Fort Collins CO, 80525

Project: Church 36-2523H

Project Number: 701530.126.01
Project Manager: Jennifer Galles

Reported:
04/18/18 07:23

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