



**PHASE II LIMITED SITE INVESTIGATION  
Hidden Creek Development  
Frederick, Colorado**

PH Project No. 18.202.02  
Report Issuance Date: August 31, 2018

**Prepared for:  
LGI HOMES, LLC  
Bellevue, WA**

***Prepared by:*  
PICKERING HIVNER  
Littleton, Colorado**



August 31, 2018

LGI Homes, LLC  
14205 SE 36th Street, Suite 100  
Bellevue, WA 85012

Attn: Mr. Tim Bruggman

RE: **Phase II Limited Site Investigation**  
Hidden Creek Development  
Frederick, Colorado  
Project No. 18.202.02

Dear Mr. Bruggman,

Pickering Hivner (PH) is pleased to submit this report of the Phase II Limited Site Investigation (Phase II) for the above referenced site. This investigation was performed in accordance with our proposal dated August 1, 2018.

We appreciate the opportunity to perform these services for you. Please contact us if you have questions regarding the information provided in the report.

Sincerely,  
**Pickering Hivner**

A handwritten signature in blue ink, appearing to read "R. Pickering", is written over a light blue circular stamp.

Russell Pickering  
Principal

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### APPENDICES

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## 1.0 INTRODUCTION

SITE DESCRIPTION	
Site Name	Hidden Creek Development
Site Location/Address	Hidden Creek Development, Frederick, Colorado
Site Improvements	Oil and gas operations, pipelines

A topographic map is included as Figure 1. A boring location figure is included as Figure 2 of Appendix A.

### 1.1 Scope of Work

A Phase I Environmental Site Assessment (ESA) dated July 30, 2018 performed by Pickering Hivner (Project No. 18.184.01) identified Recognized Environmental Conditions associated with the site related to the current and historical presence of oil and gas development and production on and adjacent to the site to include existing and historical well locations, tank batteries, flowlines, and pipelines. The Phase I recommended additional investigation of the site to include soil, soil vapor screening, and/or groundwater (if encountered) sampling for volatile organic compounds (VOCs) and total petroleum hydrocarbons, carbon chain (TPH) in the area of the identified features. This Phase II Limited Site Investigation (LSI) was conducted in accordance with PH's proposal dated August 1, 2018. The work was conducted per client direction.

### 1.2 Standard of Care

PH's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time frame. PH makes no warranties, either expressed or implied, regarding the findings, conclusions or recommendations. PH does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report. These limited Phase II services were performed in accordance with the scope of work agreed upon by the client, as reflected in our proposal, and were not restricted by ASTM E1903-97. PH recommends the evaluation of sampling results with respect to the future use of the property in consultation with civil engineers, architects, and other professionals in determining the need for and design parameters of appropriate engineering controls.

### 1.3 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous

substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this Phase II. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

#### **1.4 Reliance**

The Phase II LSI report will be prepared for the exclusive use and reliance LGI Homes, LLC (Client). Reliance by any other party is prohibited without the written authorization of the Client and PH. If the client is aware of additional parties that will require reliance on the LSI report, the names, addresses, and relationship of these parties should be provided for PH approval prior to the time of authorization to proceed. PH may grant reliance on the LSI report to those approved parties upon receipt of a fully executed Reliance Agreement (available upon request) and receipt of information requested in the Reliance Agreement. If, in the future, the client and PH consent to reliance on the LSI by a third party, PH may grant reliance upon receipt of a fully executed Reliance Agreement, requested information and receipt of an additional fee per relying party.

### **2.0 FIELD ACTIVITIES**

#### **2.1 Borings**

The Phase II LSI was conducted on August 28, 2018. As part of the approved and client directed scope of work, twenty borings (B1-B20) were advanced using a truck-mounted direct push rig, auger rig, and/or hand auger, as appropriate, fitted with continuous core sampling equipment to depths ranging from five to twenty feet below ground surface (ft-bgs). Figure 2 presents the approximate locations of soil borings at the site (Appendix A).

#### **2.2 Soil Profile and Groundwater Occurrence**

Soil cores were collected and observed to document soil lithology, color, moisture content and indications for potential contamination. In general, the soil encountered in the borings consisted of a combination of silty sand to depths of approximately two to five ft-bgs, and fine to coarse sand to approximately twenty ft-bgs. Indications of potential environmental contamination (chemical staining and/or odor) were observed in the soil samples collected from borings B5, B10, and B12 during drilling. Borings were left open through the end of the field activities to facilitate collection of groundwater samples, however sufficient quantities of groundwater for sample collection were not observed during the LSI other than in boring B20. Borings were plugged and capped with soil prior to PH leaving the site.

### 2.3 Soil Field Screening for Organic Vapors

Soil samples were field screened at approximate two-foot intervals for volatile organic vapors using a photoionization detector (PID) equipped with 10.6 electron volt (eV) bulb and the ambient temperature headspace (ATH) method. The ATH soil screening method consists of placing a representative sample from each soil core interval into Ziploc® bags, resealing the bags, and allowing the bag contents to equilibrate to the surrounding ambient conditions. A MiniRae PID, an instrument for measuring volatile organic vapor concentrations in parts per million (ppm), was introduced into the the headspace of the individual sample bags to measure the volatile organic vapor concentration.

The PID field screening measurements are depicted in Table 1 below.

**TABLE 1  
SOIL FIELD SCREENING MEASUREMENTS**

Boring	PID Measurement (ppm)				
	2 ft-bgs	5 ft-bgs	10 ft-bgs	15 ft-bgs	20 ft-bgs
B1	1.2	3.8	4.8*	<1	<1
B2	<1	<1	<1	<1	1.7*
B3	<1	<1*	-	-	-
B4	<1	<1	<1	1.5*	1.1
B5	3.1	6.3	11.2*	7.4	-
B6	<1	<1*	-	-	-
B7	<1	<1*	-	-	-
B8	<1	<1*	-	-	-
B9	<1	<1*	-	-	-
B10	<1	2.9*	2.4	<1	1.5
B11	<1	<1*	-	-	-
B12	8.4	16.1	212.8*	113.0	38.3
B13	<1	<1*	-	-	-
B14	<1	<1*	-	-	-
B15	<1	<1*	-	-	-
B16	<1	<1*	-	-	-
B17	<1	<1*	-	-	-

Boring	PID Measurement (ppm)				
	2 ft-bgs	5 ft-bgs	10 ft-bgs	15 ft-bgs	20 ft-bgs
B18	<1	<1*	-	-	-
B19	<1	<1*	-	-	-
B20	<1	1.4*	-	-	-

PID – Photoionization detector ppm – Parts per million \* Soil sample submitted for laboratory analysis  
ft-bgs – feet below ground surface – Not measured

## 2.4 Soil Sampling

Soil samples were collected for laboratory analysis from each boring into laboratory-provided containers, placed in an ice-filled cooler and transported under chain of custody to the laboratory for analysis.

## 2.5 Groundwater Sampling

Groundwater was collected using a dedicated poly bailer into laboratory prepared 40-ml VOA vials, placed in an ice-filled cooler and transported under chain of custody to the laboratory for analysis.

## 3.0 LABORATORY ANALYTICAL METHODS

The soil and groundwater samples were analyzed for the following:

- Volatile organic compounds (VOCs) using EPA Method 8260B
- Total petroleum hydrocarbons in the gasoline (GRO), diesel fuel (DRO), and oil (ORO) range organics using EPA Method 8260B/8015

Copies of the laboratory reports are provided in Appendix B.

## 4.0 ANALYTICAL SUMMARY

Laboratory results for VOC and TPH concentrations are summarized in Tables 2 and 3. A comprehensive listing of individual analyte and TPH range results is included in Appendix B.

**TABLE 2**  
**SOIL ANALYTICAL SUMMARY**  
**VOCs and TPH**

SOIL					
Sample ID	TPH (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	VOCs (mg/kg)
Screening Level	500 <sup>2</sup>	500 <sup>2</sup>	500 <sup>2</sup>	500 <sup>2</sup>	EPA RSL <sup>1</sup>
B1	ND	ND	ND	ND	ND
B2	ND	ND	ND	ND	ND
B3	ND	ND	ND	ND	ND
B4	ND	ND	ND	ND	ND
B5	320	ND	210	110	ND
B6	ND	ND	ND	ND	ND
B7	ND	ND	ND	ND	ND
B8	ND	ND	ND	ND	ND
B9	ND	ND	ND	ND	ND
B10	1730	ND	940	790	ND
B11	ND	ND	ND	ND	ND
B12	8200	ND	5200	3000	ND
B13	ND	ND	ND	ND	ND
B14	ND	ND	ND	ND	ND
B15	ND	ND	ND	ND	ND
B16	ND	ND	ND	ND	ND
B17	ND	ND	ND	ND	ND
B18	ND	ND	ND	ND	ND
B19	ND	ND	ND	ND	ND
B20	ND	ND	ND	ND	ND

<sup>1</sup> - RSLs – EPA Regional Screening Levels, Residential Soil

<sup>2</sup> – Colorado Division of Oil and Public Safety (OPS) - Total Petroleum Hydrocarbon - Risk Based Screening Level

TPH – Total Petroleum Hydrocarbon VOCs- Volatile Organic Compounds

GRO – Gasoline Range Organics DRO – Diesel Range Organics ORO – Oil Range Organics

mg/kg – milligrams per kilogram ND – Not detected at or above laboratory report limits

**TABLE 3**  
**GROUNDWATER ANALYTICAL SUMMARY**  
**VOCs and TPH**

GROUNDWATER					
Sample ID	TPH (mg/L)	GRO (mg/L)	DRO (mg/L)	ORO (mg/L)	VOCs (mg/L)
Screening Level	500 <sup>2</sup>	500 <sup>2</sup>	500 <sup>2</sup>	500 <sup>2</sup>	EPA RSL <sup>1</sup>
B20	ND	ND	ND	ND	ND

<sup>1</sup> - RSLs – EPA Regional Screening Levels

<sup>2</sup> – Colorado Division of Oil and Public Safety (OPS) - Total Petroleum Hydrocarbon - Risk Based Screening Level

TPH – Total Petroleum Hydrocarbon VOCs- Volatile Organic Compounds

GRO – Gasoline Range Organics DRO – Diesel Range Organics ORO – Oil Range Organics

mg/L – milligrams per kilogram ND – Not detected at or above laboratory report limits

## 5.0 FINDINGS

### 5.1 Findings

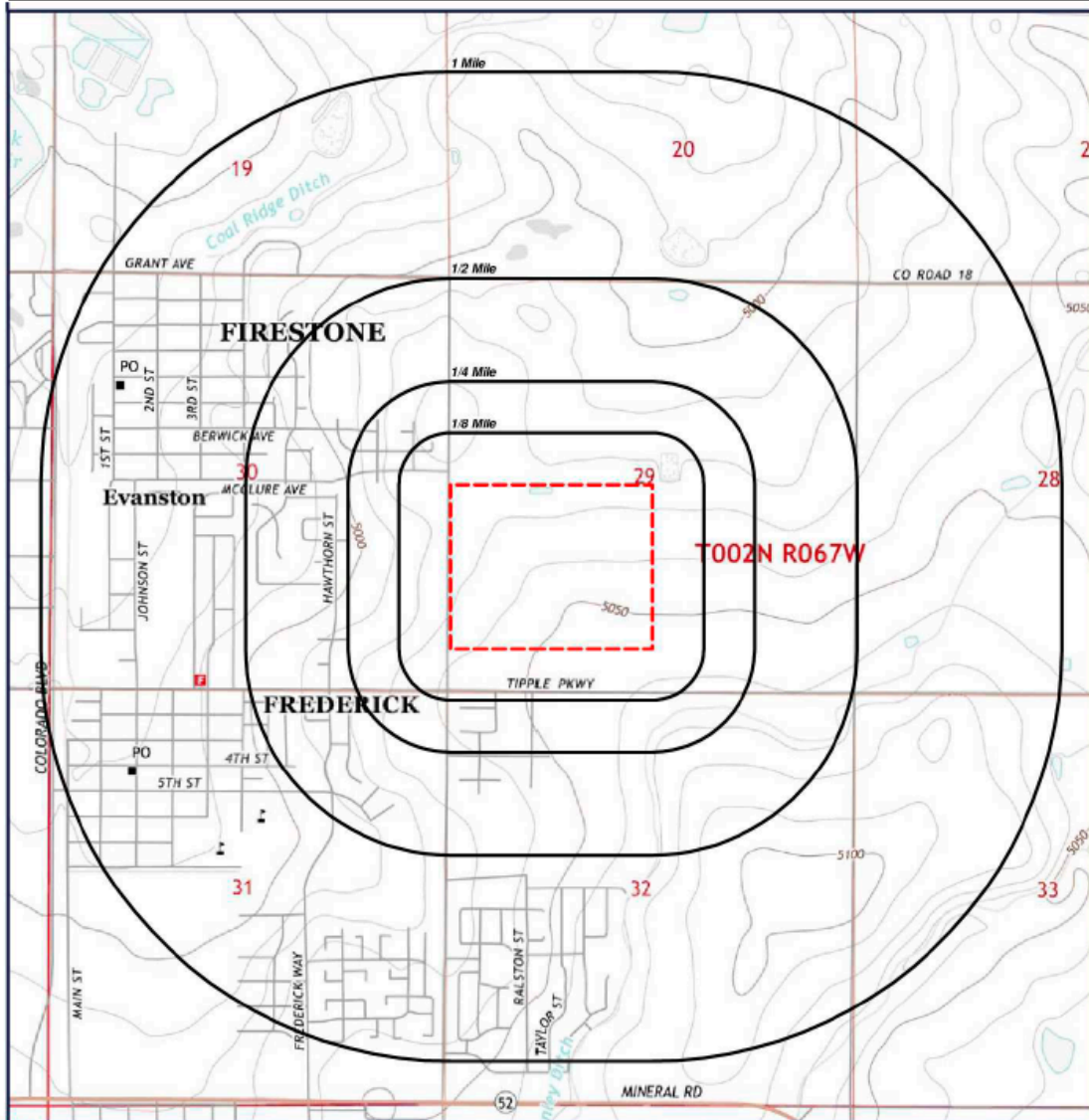
Field soil vapor screening resulted in elevated VOC readings above background levels in samples collected from borings B1, B2, B4, B5, B10, B12, and B20, as tabulated in Table 1. Volatile organic compound concentrations were reported below laboratory method detection limits in all soil samples collected as part of this LSI. Total petroleum hydrocarbons were reported above laboratory method detection limits in soil samples collected from the borings B5, B10, and B12, as tabulated in Table 2. Groundwater was not encountered in volumes sufficient for sampling prior to the completion of field activities other than in boring B20. Groundwater sampled from boring B20 did not indicate VOCs or TPH above laboratory detection limits, as tabulated in Table 3.

## **APPENDIX A**

**Figure 1 – Project Location**

**Figure 2 – Boring Locations**

# Topographic Map



Target Property (TP)

**Quadrangle(s):** Frederick  
**Source:** USGS, 07/17/2013  
 Hidden Creek  
 Tipple Pkwy & Ridgeway Blvd  
 Frederick, Colorado  
 80530



**Figure 1**  
**Project Location**

**PICKERING HIVNER LLC**

**Hidden Creek Development**  
**Frederick, CO**

**Project No. 18.202.02**



USGS, 1984



North

Figure 2  
Boring Locations

PICKERING HIVNER LLC

Hidden Creek Development  
Frederick, CO

Project No. 18.202.02

## **APPENDIX B**

### **Laboratory Analytical Reports**

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 30, 2018

Russ Pickering  
Pickering Hivner  
PO BOX 3405  
Littleton, CO 80161  
RE: Hidden Hills

Enclosed are the results of analyses for samples received by Summit Scientific on 08/28/18 14:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
Laboratory Manager



Pickering Hivner  
PO BOX 3405  
Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
Project Manager: Russ Pickering

**Reported:**  
08/30/18 16:23

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1	1808367-01	Soil	08/28/18 00:00	08/28/18 14:08
B2	1808367-02	Soil	08/28/18 00:00	08/28/18 14:08
B3	1808367-03	Soil	08/28/18 00:00	08/28/18 14:08
B4	1808367-04	Soil	08/28/18 00:00	08/28/18 14:08
B5	1808367-05	Soil	08/28/18 00:00	08/28/18 14:08
B6	1808367-06	Soil	08/28/18 00:00	08/28/18 14:08
B7	1808367-07	Soil	08/28/18 00:00	08/28/18 14:08
B8	1808367-08	Soil	08/28/18 00:00	08/28/18 14:08
B9	1808367-09	Soil	08/28/18 00:00	08/28/18 14:08
B10	1808367-10	Soil	08/28/18 00:00	08/28/18 14:08
B11	1808367-11	Soil	08/28/18 00:00	08/28/18 14:08
B12	1808367-12	Soil	08/28/18 00:00	08/28/18 14:08
B13	1808367-13	Soil	08/28/18 00:00	08/28/18 14:08
B14	1808367-14	Soil	08/28/18 00:00	08/28/18 14:08
B15	1808367-15	Soil	08/28/18 00:00	08/28/18 14:08
B16	1808367-16	Soil	08/28/18 00:00	08/28/18 14:08
B17	1808367-17	Soil	08/28/18 00:00	08/28/18 14:08
B18	1808367-18	Soil	08/28/18 00:00	08/28/18 14:08
B19	1808367-19	Soil	08/28/18 00:00	08/28/18 14:08
B20	1808367-20	Soil	08/28/18 00:00	08/28/18 14:08
B20W	1808367-21	Water	08/28/18 00:00	08/28/18 14:08

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

1808367.1

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Client: Pickering Hivner

Project Manager: Pickering

Page 1 of 3

Address:

E-Mail: rpickering@pickeringhivner.com

City/State/Zip:

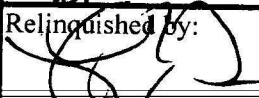
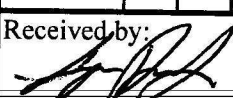
Phone: 303 730 1116

Project Name: Hidden Hills

Sampler Name: Pickering/Hivner

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TPH	VOC				
1	B1	8.28.18	AM	1			/			/								
2	B2																	
3	B3																	
4	B4																	
5	B5																	
6	B6																	
7	B7																	
8	B8																	
9	B9																	
10	B10																	

Relinquished by: 	Date/Time: 1408 8.28.18	Received by: 	Date/Time: 8.28.18 1408	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/>	Notes: need by Thurs 8/30 EDB!
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 30.1 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	up charge 25% per Paul.

# Summit Scientific

1808367.2

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Client: Pickering Hiver

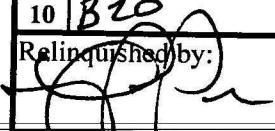
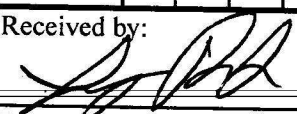
Page 2 of 3

Address: \_\_\_\_\_ Project Manager: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_ E-Mail: \_\_\_\_\_

Phone: \_\_\_\_\_ Project Name: Hidden Hills

Sampler Name: \_\_\_\_\_ Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	TPH	VOC				
1	B11	8.29.18	Am	-														
2	B12																	
3	B13																	
4	B14																	
5	B15																	
6	B16																	
7	B17																	
8	B18																	
9	B19																	
10	B20																	
Relinquished by: 		Date/Time: <u>8.29.18</u>		Received by: 		Date/Time: <u>8.28.18</u>		Turn Around Time (Check)		Notes:								
		Date/Time: <u>1408</u>				Date/Time: <u>1408</u>		Same Day _____ 72 hours _____										
Relinquished by: _____		Date/Time: _____		Received by: _____		Date/Time: _____		24 hours _____ Standard _____										
								48 hours <input checked="" type="checkbox"/>										
Relinquished by: _____		Date/Time: _____		Received by: _____		Date/Time: _____		Sample Integrity:										
								Temperature Upon Receipt: <u>30.1</u>										
								Samples Intact: <input checked="" type="checkbox"/> Yes No										



### Sample Receipt Checklist

S2 Work Order: 1808367

Client: Pickering Hues Client Project ID: Hidden Hills

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

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

Temp (°C)	30.1
-----------	------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<small>NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.</small>				
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<small>Note the type of preservative in the Comments column – HCl, H<sub>2</sub>SO<sub>4</sub>, NaOH, HNO<sub>3</sub>, ect</small>				
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<small>Record the pH in Comments.</small>				
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
<b><sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.</b>				

UP  
Custodian Printed Name or Initials

[Signature]  
Signature or Initials of Custodian

8-20-18 1855  
Date/Time



Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B1**  
**1808367-01 (Soil)**

Summit Scientific

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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.*



Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B1**  
**1808367-01 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		131 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B1**  
**1808367-01 (Soil)**

**Summit Scientific**

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

Surrogate	Result	Limit	Batch	Prepared	Analyzed	Method
Surrogate: Toluene-d8	86.7 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	126 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

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

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B2**  
**1808367-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B2**  
**1808367-02 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		122 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B2**  
**1808367-02 (Soil)**

**Summit Scientific**

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

Surrogate	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Toluene-d8	101 %	20-170			1808337	08/28/18	08/29/18	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	88.1 %	21-167			"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

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

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B3**  
**1808367-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B3**  
**1808367-03 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %		23-173	"	"	"	"	

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Pickering Hivner PO BOX 3405 Littleton CO, 80161	Project: Hidden Hills Project Number: [none] Project Manager: Russ Pickering	<b>Reported:</b> 08/30/18 16:23
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**B3**  
**1808367-03 (Soil)**

**Summit Scientific**

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

Surrogate: Toluene-d8	101 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	101 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		86.0 %	30-150		"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B4**  
**1808367-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B4**  
**1808367-04 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %		23-173	"	"	"	"	

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Pickering Hivner PO BOX 3405 Littleton CO, 80161	Project: Hidden Hills Project Number: [none] Project Manager: Russ Pickering	Reported: 08/30/18 16:23
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**B4**  
**1808367-04 (Soil)**

**Summit Scientific**

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

Surrogate: Toluene-d8	100 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	105 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

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

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B5**  
**1808367-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B5**  
**1808367-05 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B5**  
**1808367-05 (Soil)**

**Summit Scientific**

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

Surrogate: Toluene-d8	94.0 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	85.0 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	<b>210</b>	50		mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	<b>110</b>	50		"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		73.3 %		30-150		"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B6**  
**1808367-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B6**  
**1808367-06 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B6**  
**1808367-06 (Soil)**

**Summit Scientific**

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

Surrogate	Result	Limit	Batch	Prepared	Analyzed	Method
Surrogate: Toluene-d8	98.6 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	106 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

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

Summit Scientific

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B7**  
**1808367-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B7**  
**1808367-07 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B7**

**1808367-07 (Soil)**

**Summit Scientific**

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

Surrogate	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Toluene-d8	99.2 %	20-170		1	1808337	08/28/18	08/29/18	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	122 %	21-167		"	"	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M		
C28-C36 (ORO)	ND	50	"	"	"	"	"	"		

Date Sampled: **08/28/18 00:00**

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

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B8**  
**1808367-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B8**  
**1808367-08 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		127 %		23-173	"	"	"	"	

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Pickering Hivner PO BOX 3405 Littleton CO, 80161	Project: Hidden Hills Project Number: [none] Project Manager: Russ Pickering	<b>Reported:</b> 08/30/18 16:23
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**B8**  
**1808367-08 (Soil)**

**Summit Scientific**

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

Surrogate: Toluene-d8	91.0 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	110 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		98.9 %	30-150		"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B9**  
**1808367-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B9**  
**1808367-09 (Soil)**

**Summit Scientific**

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

Analyte	Result	Concentration	Units	Dilution	Batch	Prepared	Analyzed	Method
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B9**  
**1808367-09 (Soil)**

**Summit Scientific**

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

Surrogate	100 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
<i>Surrogate: Toluene-d8</i>	100 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
<i>Surrogate: 4-Bromofluorobenzene</i>	82.8 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>		105 %	30-150		"	"	"	"	

Summit Scientific

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B10**  
**1808367-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B10**  
**1808367-10 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B10**  
**1808367-10 (Soil)**

**Summit Scientific**

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

Surrogate	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Toluene-d8	93.4 %	20-170		1808337	08/28/18	08/29/18	EPA 8260B		
Surrogate: 4-Bromofluorobenzene	122 %	21-167		"	"	"	"		

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	940	50		mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	790	50		"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

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

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B11**  
**1808367-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B11**  
**1808367-11 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B11**

**1808367-11 (Soil)**

**Summit Scientific**

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

Surrogate	101 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
<i>Surrogate: Toluene-d8</i>	101 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
<i>Surrogate: 4-Bromofluorobenzene</i>	82.3 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>		99.0 %		30-150		"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B12**  
**1808367-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B12**  
**1808367-12 (Soil)**

**Summit Scientific**

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

Analyte	Result	Concentration	Units	Dilution	Batch	Prepared	Analyzed	Method
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B12**

**1808367-12 (Soil)**

**Summit Scientific**

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

Surrogate	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Toluene-d8	88.7 %	20-170		1808337	08/28/18	08/29/18	EPA 8260B		
4-Bromofluorobenzene	108 %	21-167		"	"	"	"		

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	<b>5200</b>	50		mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	<b>3000</b>	50		"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		391 %		30-150		"	"	"	"	S-02

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B13**  
**1808367-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B13**  
**1808367-13 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %		23-173	"	"	"	"	

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B13**

**1808367-13 (Soil)**

**Summit Scientific**

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

Surrogate	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Toluene-d8	98.6 %	20-170		1808337	08/28/18	08/29/18	EPA 8260B		
Surrogate: 4-Bromofluorobenzene	98.0 %	21-167		"	"	"	"		

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M		
C28-C36 (ORO)	ND	50	"	"	"	"	"	"		

Date Sampled: **08/28/18 00:00**

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

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B14**  
**1808367-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B14**  
**1808367-14 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		127 %	23-173		"	"	"	"	

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B14**

**1808367-14 (Soil)**

**Summit Scientific**

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

Surrogate	103 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: Toluene-d8	103 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	102 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

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

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B15**  
**1808367-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B15**  
**1808367-15 (Soil)**

**Summit Scientific**

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		122 %		23-173	"	"	"	"	

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B15**  
**1808367-15 (Soil)**

**Summit Scientific**

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

Surrogate: Toluene-d8	93.4 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	92.9 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		89.0 %	30-150		"	"	"	"	

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Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B16**  
**1808367-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B16**  
**1808367-16 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		124 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B16**  
**1808367-16 (Soil)**

**Summit Scientific**

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

Surrogate: Toluene-d8	95.6 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	98.7 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		57.4 %	30-150		"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B17**  
**1808367-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B17**  
**1808367-17 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		124 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B17**

**1808367-17 (Soil)**

**Summit Scientific**

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

Surrogate	Concentration	Range	Batch	Prepared	Analyzed	Method
Surrogate: Toluene-d8	98.3 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	112 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		99.8 %	30-150		"	"	"	"	

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B18**  
**1808367-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B18**  
**1808367-18 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %		23-173	"	"	"	"	

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 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B18**

**1808367-18 (Soil)**

**Summit Scientific**

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

Surrogate	108 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
<i>Surrogate: Toluene-d8</i>	108 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
<i>Surrogate: 4-Bromofluorobenzene</i>	108 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>		99.8 %	30-150		"	"	"	"	

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 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B19**  
**1808367-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B19**  
**1808367-19 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B19**  
**1808367-19 (Soil)**

**Summit Scientific**

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

Surrogate: Toluene-d8	102 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	98.8 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

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

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B20**  
**1808367-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Bromobenzene	ND	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.010	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chlorodibromomethane	ND	0.010	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.015	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.015	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Methylene Chloride	ND	0.015	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.010	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.020	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B20**  
**1808367-20 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	0.0050	mg/kg	1	1808337	08/28/18	08/29/18	EPA 8260B	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
Trichloroethene	ND	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.015	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.0050	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.010	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %		23-173	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B20**

**1808367-20 (Soil)**

**Summit Scientific**

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

Surrogate	Recovery %	Retention Time	Batch	Sample Date	Analysis Date	Method
Surrogate: Toluene-d8	99.4 %	20-170	1808337	08/28/18	08/29/18	EPA 8260B
Surrogate: 4-Bromofluorobenzene	106 %	21-167	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1808336	08/29/18	08/30/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		99.7 %	30-150		"	"	"	"	

Summit Scientific

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B20W**  
**1808367-21 (Water)**

**Summit Scientific**

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

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1808321	08/28/18	08/30/18	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	3.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**B20W**  
**1808367-21 (Water)**

**Summit Scientific**

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
tert-Butylbenzene	ND	1.0	ug/l	1	1808321	08/28/18	08/30/18	EPA 8260B	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	"

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**B20W**  
**1808367-21 (Water)**

**Summit Scientific**

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

Surrogate	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Toluene-d8	98.4 %	20-170		1	1808321	08/28/18	08/30/18	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	99.0 %	21-167		"	"	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
C10-C28 (DRO)	ND	5.0	mg/L	1	1808351	08/29/18	08/30/18	EPA 8015M		
C28-C36 (ORO)	ND	5.0	"	"	"	"	"	"		

Date Sampled: **08/28/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
Surrogate: o-Terphenyl		130 %	58.9-148		"	"	"	"		

Summit Scientific

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

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

**Summit Scientific**

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

**Batch 1808337 - EPA 5030 Soil MS**

**Blank (1808337-BLK1)**

Prepared: 08/28/18 Analyzed: 08/29/18

Benzene	ND	0.0020	mg/kg								
Bromobenzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.010	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chlorodibromomethane	ND	0.010	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.015	"								
cis-1,2-Dichloroethene	ND	0.0050	"								
cis-1,3-Dichloropropene	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Di-isopropyl ether	ND	0.0050	"								
Ethyl tert-butyl ether	ND	0.010	"								
Ethylbenzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
m,p-Xylene	ND	0.010	"								
Methyl tert-butyl ether	ND	0.015	"								
Naphthalene	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
Methylene Chloride	ND	0.015	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p-Isopropyltoluene	ND	0.010	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.010	"								
Tert-amyl methyl ether	ND	0.0050	"								
Tert-butyl alcohol	ND	0.020	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethene	ND	0.0050	"								
trans-1,3-Dichloropropene	ND	0.0050	"								

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

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

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

**Batch 1808337 - EPA 5030 Soil MS**

**Blank (1808337-BLK1)**

Prepared: 08/28/18 Analyzed: 08/29/18

Trichloroethene	ND	0.0050	mg/kg							
Trichlorofluoromethane	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
1,1,2-Trichloroethane	ND	0.0050	"							
1,1-Dichloroethane	ND	0.0050	"							
1,1-Dichloroethene	ND	0.0050	"							
1,1-Dichloropropene	ND	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.010	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.015	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
1,2-Dichlorobenzene	ND	0.0050	"							
1,2-Dichloroethane (EDC)	ND	0.0050	"							
1,2-Dichloropropane	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,3-Dichlorobenzene	ND	0.0050	"							
1,3-Dichloropropane	ND	0.0050	"							
1,4-Dichlorobenzene	ND	0.0050	"							
2,2-Dichloropropane	ND	0.010	"							
2-Chlorotoluene	ND	0.0050	"							
4-Chlorotoluene	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0452		"	0.0396	114	23-173				
Surrogate: Toluene-d8	0.0401		"	0.0400	100	20-170				
Surrogate: 4-Bromofluorobenzene	0.0422		"	0.0400	105	21-167				

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**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 1808337 - EPA 5030 Soil MS**

**LCS (1808337-BS1)**

Prepared: 08/28/18 Analyzed: 08/29/18

Benzene	0.142	0.0020	mg/kg	0.150		94.7	70-130
Bromobenzene	0.155	0.0050	"	0.150		103	70-130
Bromochloromethane	0.158	0.0050	"	0.150		105	70-130
Bromodichloromethane	0.156	0.0050	"	0.150		104	70-130
Bromoform	0.170	0.0050	"	0.150		113	70-130
Bromomethane	0.191	0.010	"	0.150		128	70-130
Carbon tetrachloride	0.137	0.0050	"	0.150		91.5	70-130
Chlorobenzene	0.149	0.0050	"	0.150		99.7	70-130
Chlorodibromomethane	0.162	0.010	"	0.150		108	70-130
Chloroethane	0.144	0.0050	"	0.150		96.2	70-130
Chloroform	0.149	0.0050	"	0.150		99.5	70-130
Chloromethane	0.153	0.015	"	0.150		102	70-130
cis-1,2-Dichloroethene	0.151	0.0050	"	0.150		101	70-130
cis-1,3-Dichloropropene	0.163	0.0050	"	0.150		109	70-130
Dibromomethane	0.166	0.0050	"	0.150		110	70-130
Dichlorodifluoromethane	0.138	0.0050	"	0.150		92.3	70-130
Di-isopropyl ether	0.123	0.0050	"	0.150		82.1	70-130
Ethyl tert-butyl ether	0.159	0.010	"	0.150		106	70-130
Ethylbenzene	0.143	0.0050	"	0.150		95.3	70-130
Hexachlorobutadiene	0.156	0.0050	"	0.150		104	70-130
Isopropylbenzene	0.143	0.0050	"	0.150		95.6	70-130
m,p-Xylene	0.282	0.010	"	0.300		93.9	70-130
Methyl tert-butyl ether	0.181	0.015	"				70-130
Naphthalene	0.173	0.010	"	0.150		115	70-130
n-Butylbenzene	0.149	0.0050	"	0.150		99.1	70-130
Methylene Chloride	0.138	0.015	"	0.150		91.7	70-130
n-Propylbenzene	0.144	0.0050	"	0.150		95.8	70-130
o-Xylene	0.148	0.0050	"	0.150		98.5	70-130
p-Isopropyltoluene	0.144	0.010	"	0.150		96.2	70-130
sec-Butylbenzene	0.144	0.0050	"	0.150		96.3	70-130
Styrene	0.150	0.010	"	0.150		99.9	70-130
Tert-amyl methyl ether	0.151	0.0050	"	0.150		101	70-130
Tert-butyl alcohol	0.860	0.020	"	0.750		115	70-130
tert-Butylbenzene	0.147	0.0050	"	0.150		97.7	70-130
Tetrachloroethene	0.139	0.0050	"	0.150		92.6	70-130
Toluene	0.144	0.0050	"	0.150		95.9	70-130
trans-1,2-Dichloroethene	0.144	0.0050	"	0.150		96.3	70-130
trans-1,3-Dichloropropene	0.163	0.0050	"	0.150		109	70-130

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**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 1808337 - EPA 5030 Soil MS**

**LCS (1808337-BS1)**

Prepared: 08/28/18 Analyzed: 08/29/18

Trichloroethene	0.146	0.0050	mg/kg	0.150		97.4	70-130			
Trichlorofluoromethane	0.142	0.0050	"	0.150		94.6	70-130			
Vinyl chloride	0.154	0.0050	"	0.150		103	70-130			
1,1,1,2-Tetrachloroethane	0.153	0.0050	"	0.150		102	70-130			
1,1,1-Trichloroethane	0.146	0.0050	"	0.150		97.2	70-130			
1,1,2,2-Tetrachloroethane	0.172	0.0050	"	0.150		114	70-130			
1,1,2-Trichloroethane	0.161	0.0050	"	0.150		108	70-130			
1,1-Dichloroethane	0.154	0.0050	"	0.150		103	70-130			
1,1-Dichloroethene	0.137	0.0050	"	0.150		91.2	70-130			
1,1-Dichloropropene	0.138	0.0050	"	0.150		92.3	70-130			
1,2,3-Trichlorobenzene	0.158	0.0050	"	0.150		105	70-130			
1,2,3-Trichloropropane	0.167	0.010	"	0.150		111	70-130			
1,2,4-Trichlorobenzene	0.160	0.0050	"	0.150		107	70-130			
1,2,4-Trimethylbenzene	0.160	0.0050	"	0.150		106	70-130			
1,2-Dibromo-3-chloropropane	0.153	0.015	"	0.150		102	70-130			
1,2-Dibromoethane (EDB)	0.170	0.0050	"	0.150		113	70-130			
1,2-Dichlorobenzene	0.155	0.0050	"	0.150		103	70-130			
1,2-Dichloroethane (EDC)	0.129	0.0050	"	0.150		86.0	70-130			
1,2-Dichloropropane	0.165	0.0050	"	0.150		110	70-130			
1,3,5-Trimethylbenzene	0.145	0.0050	"	0.150		96.4	70-130			
1,3-Dichlorobenzene	0.147	0.0050	"	0.150		98.1	70-130			
1,3-Dichloropropane	0.160	0.0050	"	0.150		106	70-130			
1,4-Dichlorobenzene	0.148	0.0050	"	0.150		98.8	70-130			
2,2-Dichloropropane	0.115	0.010	"	0.150		76.8	70-130			
2-Chlorotoluene	0.146	0.0050	"	0.150		97.3	70-130			
4-Chlorotoluene	0.146	0.0050	"	0.150		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0396		107	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	21-167			

Summit Scientific

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**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 1808337 - EPA 5030 Soil MS**

Matrix Spike (1808337-MS1)	Source: 1808367-01			Prepared: 08/28/18 Analyzed: 08/29/18						
Benzene	0.128	0.0020	mg/kg	0.150	ND	85.5	70-130			
Bromobenzene	0.136	0.0050	"	0.150	ND	91.0	70-130			
Bromochloromethane	0.143	0.0050	"	0.150	ND	95.1	70-130			
Bromodichloromethane	0.144	0.0050	"	0.150	ND	96.1	70-130			
Bromoform	0.146	0.0050	"	0.150	ND	97.0	70-130			
Bromomethane	0.175	0.010	"	0.150	ND	117	70-130			
Carbon tetrachloride	0.115	0.0050	"	0.150	ND	76.6	70-130			
Chlorobenzene	0.134	0.0050	"	0.150	ND	89.5	70-130			
Chlorodibromomethane	0.145	0.010	"	0.150	ND	96.4	70-130			
Chloroethane	0.124	0.0050	"	0.150	ND	82.3	70-130			
Chloroform	0.136	0.0050	"	0.150	ND	91.0	70-130			
Chloromethane	0.135	0.015	"	0.150	ND	89.8	70-130			
cis-1,2-Dichloroethene	0.137	0.0050	"	0.150	ND	91.0	70-130			
cis-1,3-Dichloropropene	0.148	0.0050	"	0.150	ND	98.9	70-130			
Dibromomethane	0.147	0.0050	"	0.150	ND	97.8	70-130			
Dichlorodifluoromethane	0.108	0.0050	"	0.150	ND	71.9	70-130			
Di-isopropyl ether	0.171	0.0050	"	0.150	ND	114	70-130			
Ethyl tert-butyl ether	0.150	0.010	"	0.150	ND	99.9	70-130			
Ethylbenzene	0.125	0.0050	"	0.150	ND	83.5	70-130			
Hexachlorobutadiene	0.116	0.0050	"	0.150	ND	77.3	70-130			
Isopropylbenzene	0.123	0.0050	"	0.150	ND	81.8	70-130			
m,p-Xylene	0.247	0.010	"	0.300	ND	82.5	70-130			
Methyl tert-butyl ether	0.162	0.015	"		ND		70-130			
Naphthalene	0.144	0.010	"	0.150	ND	96.2	70-130			
n-Butylbenzene	0.117	0.0050	"	0.150	ND	78.2	70-130			
n-Propylbenzene	0.122	0.0050	"	0.150	ND	81.0	70-130			
Methylene Chloride	0.127	0.015	"	0.150	ND	84.8	70-130			
o-Xylene	0.133	0.0050	"	0.150	ND	88.4	70-130			
p-Isopropyltoluene	0.119	0.010	"	0.150	ND	79.6	70-130			
sec-Butylbenzene	0.118	0.0050	"	0.150	ND	78.7	70-130			
Styrene	0.133	0.010	"	0.150	ND	88.9	70-130			
Tert-amyl methyl ether	0.139	0.0050	"	0.150	ND	92.9	70-130			
Tert-butyl alcohol	0.728	0.020	"	0.750	ND	97.0	70-130			
tert-Butylbenzene	0.123	0.0050	"	0.150	ND	82.2	70-130			
Tetrachloroethene	0.115	0.0050	"	0.150	ND	76.6	70-130			
Toluene	0.128	0.0050	"	0.150	ND	85.5	70-130			
trans-1,2-Dichloroethene	0.124	0.0050	"	0.150	ND	82.6	70-130			
trans-1,3-Dichloropropene	0.148	0.0050	"	0.150	ND	98.9	70-130			

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**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 1808337 - EPA 5030 Soil MS**

<b>Matrix Spike (1808337-MS1)</b>	<b>Source: 1808367-01</b>			Prepared: 08/28/18 Analyzed: 08/29/18						
Trichloroethene	0.126	0.0050	mg/kg	0.150	ND	83.9	70-130			
Trichlorofluoromethane	0.112	0.0050	"	0.150	ND	74.7	70-130			
Vinyl chloride	0.127	0.0050	"	0.150	ND	84.8	70-130			
1,1,1,2-Tetrachloroethane	0.139	0.0050	"	0.150	ND	92.3	70-130			
1,1,1-Trichloroethane	0.123	0.0050	"	0.150	ND	81.8	70-130			
1,1,2,2-Tetrachloroethane	0.145	0.0050	"	0.150	ND	96.5	70-130			
1,1,2-Trichloroethane	0.143	0.0050	"	0.150	ND	95.2	70-130			
1,1-Dichloroethane	0.139	0.0050	"	0.150	ND	92.8	70-130			
1,1-Dichloroethene	0.112	0.0050	"	0.150	ND	75.0	70-130			
1,1-Dichloropropene	0.115	0.0050	"	0.150	ND	77.0	70-130			
1,2,3-Trichlorobenzene	0.126	0.0050	"	0.150	ND	83.8	70-130			
1,2,3-Trichloropropane	0.140	0.010	"	0.150	ND	93.5	70-130			
1,2,4-Trichlorobenzene	0.129	0.0050	"	0.150	ND	85.9	70-130			
1,2,4-Trimethylbenzene	0.125	0.0050	"	0.150	ND	83.5	70-130			
1,2-Dibromo-3-chloropropane	0.169	0.015	"	0.150	ND	113	70-130			
1,2-Dibromoethane (EDB)	0.147	0.0050	"	0.150	ND	98.1	70-130			
1,2-Dichlorobenzene	0.134	0.0050	"	0.150	ND	89.5	70-130			
1,2-Dichloroethane (EDC)	0.128	0.0050	"	0.150	ND	85.5	70-130			
1,2-Dichloropropane	0.154	0.0050	"	0.150	ND	102	70-130			
1,3,5-Trimethylbenzene	0.123	0.0050	"	0.150	ND	81.8	70-130			
1,3-Dichlorobenzene	0.128	0.0050	"	0.150	ND	85.2	70-130			
1,3-Dichloropropane	0.143	0.0050	"	0.150	ND	95.0	70-130			
1,4-Dichlorobenzene	0.127	0.0050	"	0.150	ND	84.7	70-130			
2,2-Dichloropropane	0.0993	0.010	"	0.150	ND	66.2	70-130			QM-07
2-Chlorotoluene	0.127	0.0050	"	0.150	ND	84.9	70-130			
4-Chlorotoluene	0.128	0.0050	"	0.150	ND	85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0396		107	23-173			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	21-167			

Summit Scientific

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

Reported:  
 08/30/18 16:23

**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 1808337 - EPA 5030 Soil MS**

**Matrix Spike Dup (1808337-MSD1)**

Source: 1808367-01

Prepared: 08/28/18 Analyzed: 08/29/18

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
Benzene	0.125	0.0020	mg/kg	0.150	ND	83.3	70-130	2.58	30	
Bromobenzene	0.126	0.0050	"	0.150	ND	84.0	70-130	8.00	30	
Bromochloromethane	0.139	0.0050	"	0.150	ND	92.4	70-130	2.94	30	
Bromodichloromethane	0.142	0.0050	"	0.150	ND	94.4	70-130	1.81	30	
Bromoform	0.139	0.0050	"	0.150	ND	92.9	70-130	4.32	30	
Bromomethane	0.171	0.010	"	0.150	ND	114	70-130	2.39	30	
Carbon tetrachloride	0.112	0.0050	"	0.150	ND	74.6	70-130	2.64	30	
Chlorobenzene	0.128	0.0050	"	0.150	ND	85.3	70-130	4.76	30	
Chlorodibromomethane	0.139	0.010	"	0.150	ND	92.4	70-130	4.26	30	
Chloroethane	0.119	0.0050	"	0.150	ND	79.0	70-130	4.09	30	
Chloroform	0.131	0.0050	"	0.150	ND	87.5	70-130	3.88	30	
Chloromethane	0.131	0.015	"	0.150	ND	87.3	70-130	2.89	30	
cis-1,2-Dichloroethene	0.133	0.0050	"	0.150	ND	88.4	70-130	2.99	30	
cis-1,3-Dichloropropene	0.145	0.0050	"	0.150	ND	96.4	70-130	2.54	30	
Dibromomethane	0.143	0.0050	"	0.150	ND	95.3	70-130	2.57	30	
Dichlorodifluoromethane	0.108	0.0050	"	0.150	ND	71.8	70-130	0.251	30	
Di-isopropyl ether	0.155	0.0050	"	0.150	ND	103	70-130	10.1	30	
Ethyl tert-butyl ether	0.142	0.010	"	0.150	ND	94.7	70-130	5.35	30	
Ethylbenzene	0.119	0.0050	"	0.150	ND	79.4	70-130	5.03	30	
Hexachlorobutadiene	0.100	0.0050	"	0.150	ND	66.7	70-130	14.8	30	QM-07
Isopropylbenzene	0.117	0.0050	"	0.150	ND	77.8	70-130	5.02	30	
m,p-Xylene	0.236	0.010	"	0.300	ND	78.8	70-130	4.56	30	
Methyl tert-butyl ether	0.150	0.015	"		ND		70-130	7.58	30	
Naphthalene	0.131	0.010	"	0.150	ND	87.3	70-130	9.63	30	
n-Butylbenzene	0.106	0.0050	"	0.150	ND	70.8	70-130	10.0	30	
Methylene Chloride	0.122	0.015	"	0.150	ND	81.3	70-130	4.21	30	
n-Propylbenzene	0.111	0.0050	"	0.150	ND	74.0	70-130	9.06	30	
o-Xylene	0.127	0.0050	"	0.150	ND	84.6	70-130	4.32	30	
p-Isopropyltoluene	0.110	0.010	"	0.150	ND	73.0	70-130	8.60	30	
sec-Butylbenzene	0.108	0.0050	"	0.150	ND	71.9	70-130	9.03	30	
Styrene	0.128	0.010	"	0.150	ND	85.2	70-130	4.27	30	
Tert-amyl methyl ether	0.132	0.0050	"	0.150	ND	88.3	70-130	5.03	30	
Tert-butyl alcohol	0.720	0.020	"	0.750	ND	96.0	70-130	1.02	30	
tert-Butylbenzene	0.115	0.0050	"	0.150	ND	76.6	70-130	7.05	30	
Tetrachloroethene	0.112	0.0050	"	0.150	ND	74.4	70-130	3.02	30	
Toluene	0.125	0.0050	"	0.150	ND	83.5	70-130	2.46	30	
trans-1,2-Dichloroethene	0.121	0.0050	"	0.150	ND	80.8	70-130	2.15	30	
trans-1,3-Dichloropropene	0.145	0.0050	"	0.150	ND	96.4	70-130	2.54	30	

Summit Scientific

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**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		

**Batch 1808337 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1808337-MSD1)</b>	<b>Source: 1808367-01</b>			<b>Prepared: 08/28/18 Analyzed: 08/29/18</b>						
Trichloroethene	0.122	0.0050	mg/kg	0.150	ND	81.3	70-130	3.15	30	
Trichlorofluoromethane	0.111	0.0050	"	0.150	ND	74.3	70-130	0.617	30	
Vinyl chloride	0.124	0.0050	"	0.150	ND	82.8	70-130	2.46	30	
1,1,1,2-Tetrachloroethane	0.132	0.0050	"	0.150	ND	88.1	70-130	4.75	30	
1,1,1-Trichloroethane	0.118	0.0050	"	0.150	ND	78.8	70-130	3.79	30	
1,1,2,2-Tetrachloroethane	0.137	0.0050	"	0.150	ND	91.2	70-130	5.60	30	
1,1,2-Trichloroethane	0.138	0.0050	"	0.150	ND	91.9	70-130	3.53	30	
1,1-Dichloroethane	0.132	0.0050	"	0.150	ND	88.3	70-130	4.99	30	
1,1-Dichloroethene	0.111	0.0050	"	0.150	ND	74.3	70-130	0.938	30	
1,1-Dichloropropene	0.113	0.0050	"	0.150	ND	75.5	70-130	1.89	30	
1,2,3-Trichlorobenzene	0.113	0.0050	"	0.150	ND	75.1	70-130	11.0	30	
1,2,3-Trichloropropane	0.129	0.010	"	0.150	ND	86.1	70-130	8.29	30	
1,2,4-Trichlorobenzene	0.116	0.0050	"	0.150	ND	77.1	70-130	10.9	30	
1,2,4-Trimethylbenzene	0.116	0.0050	"	0.150	ND	77.2	70-130	7.84	30	
1,2-Dibromo-3-chloropropane	0.164	0.015	"	0.150	ND	110	70-130	3.09	30	
1,2-Dibromoethane (EDB)	0.136	0.0050	"	0.150	ND	90.6	70-130	7.86	30	
1,2-Dichlorobenzene	0.124	0.0050	"	0.150	ND	82.4	70-130	8.35	30	
1,2-Dichloroethane (EDC)	0.138	0.0050	"	0.150	ND	91.8	70-130	7.15	30	
1,2-Dichloropropane	0.150	0.0050	"	0.150	ND	100	70-130	2.15	30	
1,3,5-Trimethylbenzene	0.114	0.0050	"	0.150	ND	75.9	70-130	7.51	30	
1,3-Dichlorobenzene	0.118	0.0050	"	0.150	ND	78.8	70-130	7.73	30	
1,3-Dichloropropane	0.134	0.0050	"	0.150	ND	89.5	70-130	5.96	30	
1,4-Dichlorobenzene	0.117	0.0050	"	0.150	ND	78.2	70-130	8.00	30	
2,2-Dichloropropane	0.0837	0.010	"	0.150	ND	55.8	70-130	17.1	30	QM-07
2-Chlorotoluene	0.118	0.0050	"	0.150	ND	78.6	70-130	7.68	30	
4-Chlorotoluene	0.118	0.0050	"	0.150	ND	78.4	70-130	8.47	30	
Surrogate: 1,2-Dichloroethane-d4	0.0440		"	0.0396		111	23-173			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167			

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Pickering Hivner  
 PO BOX 3405  
 Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
 Project Manager: Russ Pickering

**Reported:**  
 08/30/18 16:23

**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 1808336 - EPA 3550A**

**Blank (1808336-BLK1)**

Prepared & Analyzed: 08/29/18

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

**LCS (1808336-BS1)**

Prepared & Analyzed: 08/29/18

C10-C28 (DRO)	500	50	mg/kg	500	100	81.4-129				
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**Matrix Spike (1808336-MS1)**

Source: 1808367-01

Prepared & Analyzed: 08/29/18

C10-C28 (DRO)	496	50	mg/kg	500	17.6	95.7	77.8-133			
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**Matrix Spike Dup (1808336-MSD1)**

Source: 1808367-01

Prepared & Analyzed: 08/29/18

C10-C28 (DRO)	490	50	mg/kg	500	17.6	94.4	77.8-133	1.37	8.48	
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**Batch 1808351 - EPA 3520B**

**Blank (1808351-BLK1)**

Prepared: 08/29/18 Analyzed: 08/30/18

C10-C28 (DRO)	ND	5.0	mg/L							
C28-C36 (ORO)	ND	5.0	"							

**LCS (1808351-BS1)**

Prepared: 08/29/18 Analyzed: 08/30/18

C10-C28 (DRO)	50.8	5.0	mg/L	50.0	102	54.3-147				
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**LCS Dup (1808351-BSD1)**

Prepared: 08/29/18 Analyzed: 08/30/18

C10-C28 (DRO)	50.0	5.0	mg/L	50.0	100	54.3-147	1.57	15		
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Pickering Hivner  
PO BOX 3405  
Littleton CO, 80161

Project: Hidden Hills

Project Number: [none]  
Project Manager: Russ Pickering

**Reported:**  
08/30/18 16:23

### Notes and Definitions

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