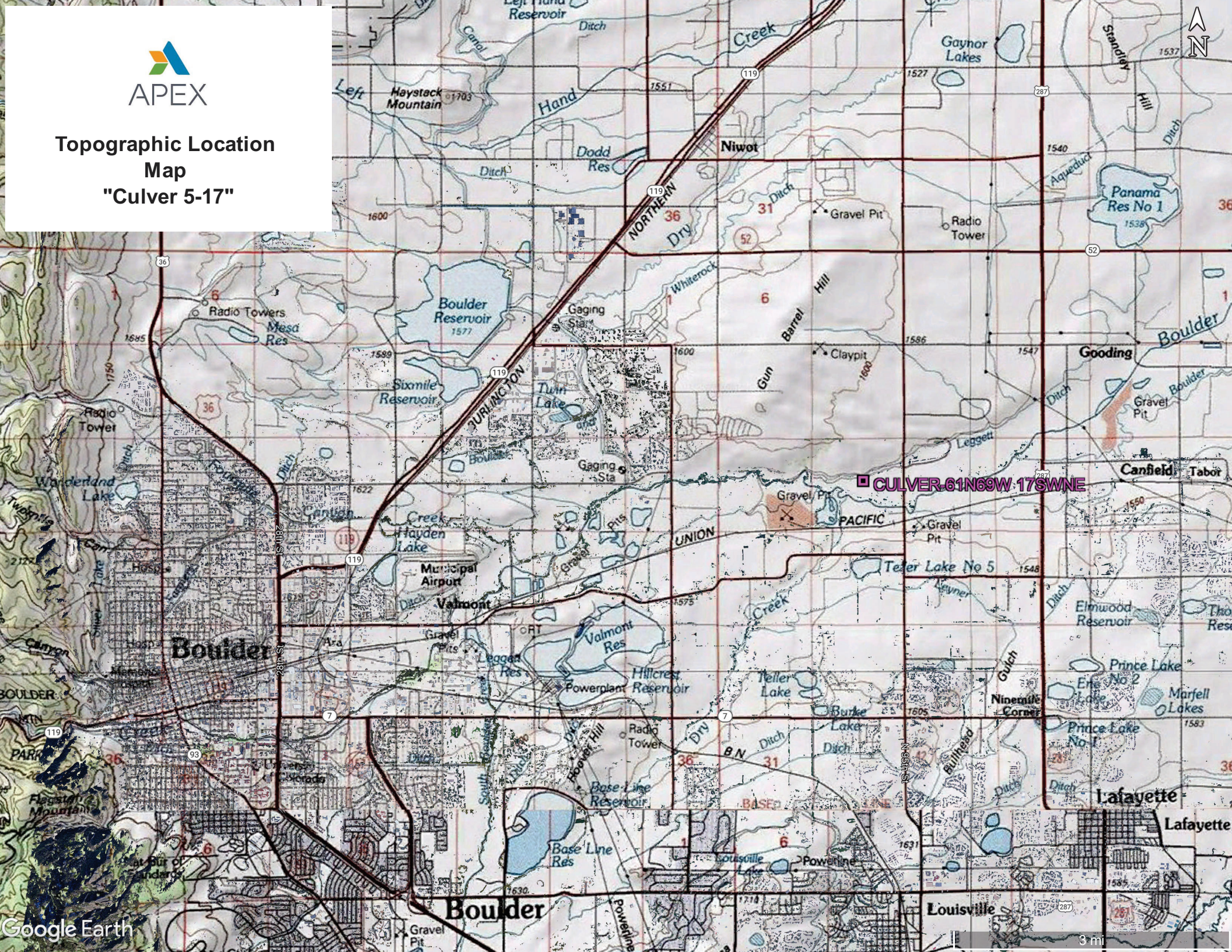


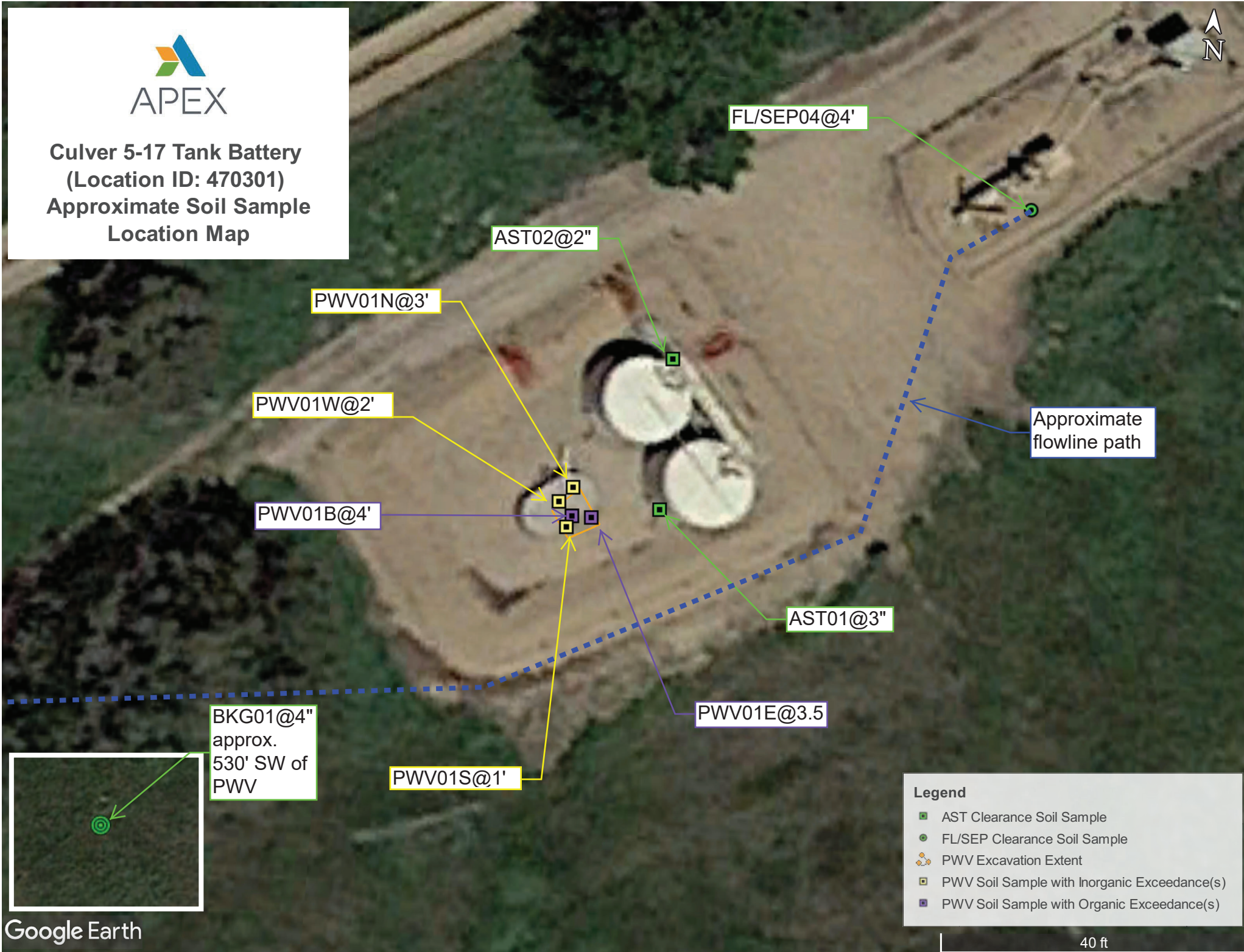


Topographic Location
Map
"Culver 5-17"





**Culver 5-17 Tank Battery
(Location ID: 470301)
Approximate Soil Sample
Location Map**





Laboratory Results Summary Table

Culver 5-17

Soil - Organics

			Organic Compounds in Soils (mg/kg)							
COGCC Allowable Concentration (Soil) -->			500	1.2/0.0026(M)	490/0.69(M)	5.8/0.78(M)	58/9.9(M)	30/0.0081(R)	27/0.0087(R)	2/0.0038(R)
Location	Sample Date	Sample ID	TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p- isomers = total xylenes)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene
Culver 5-17	4/19/2022	FL/SEP04@4'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
Culver 5-17	4/19/2022	AST01@3"	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
Culver 5-17	4/19/2022	AST02@2"	172.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
Culver 5-17	4/19/2022	PWV01B@4'	725.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.02430
Culver 5-17	4/19/2022	PWV01N@3'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335
Culver 5-17	4/19/2022	PWV01E@3.5'	2335.2	0.00664	<0.00200	<0.00200	0.00336	0.0801	<0.00200	0.715
Culver 5-17	4/19/2022	PWV01S@1'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
Culver 5-17	4/19/2022	PWV01W@2'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00571

Legend:

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC Table 915-1 TPH, BTEX, organic, metal exceedance

Yellow Highlight - COGCC Table 915-1 inorganic exceedance

Grey Highlight - below laboratory detection limit

Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)

MCL - maximum contaminant level

NA - not analyzed

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter



Laboratory Results Summary Table

Culver 5-17

Soil - PAH

			Organic Compounds in Soils (mg/kg)													
COGCC Allowable Concentration (Soil) -->			360/0.55(R)	1800/5.8(R)	1.1/0.011(R)	1.1/0.3(R)	11/2.9(R)	0.11/0.24(M)	110/9(R)	0.11/0.096(R)	240/8.9(R)	240/0.54(R)	1.1/0.98(R)	18/0.006(R)	24/0.019(R)	180/1.3(R)
Location	Sample Date	Sample ID	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Pyrene
Culver 5-17	4/19/2022	PWV01B@4'	0.0225	<0.0067	0.00858	<0.0067	<0.0067	<0.0067	0.0304	<0.0067	<0.0067	0.0481	<0.0067	0.0907	0.132	0.0108
Culver 5-17	4/19/2022	PWV01N@3'	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
Culver 5-17	4/19/2022	PWV01E@3.5'	0.163	0.00909	0.0116	<0.0067	<0.0067	<0.0067	0.0601	<0.0067	0.00554	0.348	<0.0067	1.52	2.75	0.0275
Culver 5-17	4/19/2022	PWV01S@1'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Culver 5-17	4/19/2022	PWV01W@2'	0.0021	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000801	<0.00067	<0.00067	0.0042	<0.00067	0.0155	0.0268	<0.00067

Legend:

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC Table 915-1 TPH, BTEX, organic, metal exceedance

Yellow Highlight - COGCC Table 915-1 inorganic exceedance

Grey Highlight - below laboratory detection limit

Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)

MCL - maximum contaminant level

NA - not analyzed

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter



Laboratory Results Summary Table

Culver 5-17

Soil - Inorganics

			Soil Suitability for Reclamation				Metals in Soils (mg/kg)									
COGCC Allowable Concentration (Soil) -->			<4	<6	(6-8.3)	2	0.68/0.29(M)	15000/82(M)	71/0.38(M)	0.3/0.00067(R)	3100/46(M)	400/14(M)	1500/26(R)	390/0.26(M)	390/0.8(R)	23000/370(R)
Site Specific Background -->							4.1	257.5	0.116			13.875		0.355		48.375
Location	Sample Date	Sample ID	Electrical Conductivity (EC) (by saturated paste method) (mmhos/cm)	Sodium Adsorption Ratio (SAR) (by saturated paste method) (Calculation)	pH (by saturated paste method) (pH Units)	Boron (hot water soluble soil extract) (mg/L)	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Culver 5-17	4/19/2022	FL/SEP04@4'	0.379	0.249	8.25	0.281	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Culver 5-17	4/19/2022	AST01@3"	0.248	0.0400	8.19	<0.0994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Culver 5-17	4/19/2022	AST02@2"	0.255	0.336	8.29	<0.100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Culver 5-17	4/19/2022	PWV01B@4'	1.080	1.080	8.78	0.399	3.8	162	0.22	<0.515	16.7	15.4	19.5	0.477	0.0651	70.9
Culver 5-17	4/19/2022	PWV01N@3'	0.266	0.111	8.53	<0.100	2.09	115	0.137	<0.246	8.16	8.06	10.2	0.354	0.0404	35.1
Culver 5-17	4/19/2022	PWV01E@3.5'	0.581	0.987	8.67	0.723	1.93	128	0.143	<0.514	13.4	10.7	13.6	0.456	0.0526	48.8
Culver 5-17	4/19/2022	PWV01S@1'	0.272	0.057	8.48	0.241	2.52	120	0.146	<0.507	10	9.08	11.6	0.385	0.048	42
Culver 5-17	4/19/2022	PWV01W@2'	0.365	0.35	8.47	0.709	2.27	115	0.152	<0.245	9.73	8.86	11.7	0.345	0.0421	42.3
Culver 5-17	4/19/2022	BKG01@4"	0.337	0.06	7.76	0.340	3.28	206	0.0928	<2.5	6.53	11.1	8.13	0.284	0.0753	38.7

Legend:

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC Table 915-1 TPH, BTEX, organic, metal exceedance

Yellow Highlight - COGCC Table 915-1 inorganic exceedance

Grey Highlight - below laboratory detection limit

Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)

MCL - maximum contaminant level

NA - not analyzed

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

Tank Battery Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: 470301		Date: 4/19/202222706						Remediation Project #: 22706
Associated Wells: 05-013-06112		Age of Site: Unknown						Number of Photos Attached: See attached
Location: (GPS coordinates of southeaster berm) 40.052552, -105.138026								Estimated Facility Size (acres):

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)

Good housekeeping, no debris, mound of soil on pad

USCS Soil Type: SC	Estimated Depth to Groundwater: 7'
--------------------	------------------------------------

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
Impacts found on the base and east wall of the excavated Produced Water Vessel and extend to an unknown depth as well as horizontally.

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

NA

Tanks

Tank Contents	Removed from site prior to inspection							
Size (barrels)								
Age								
Construction Material								
Tank type (AST/DRU, etc.)								
Visual Integrity of Tank								
Condition of tank footprint								
PID Readings								
Soil impacts present at valves or hatches?	No impacted soils found to exceed table 915-1 during inspection verified by lab results.							
PID Readings	35.4	16.8						
Sample taken? Location/ Sample ID#	AST01@3"	AST02@2"						
Photo Number(s)								

Other observations regarding tanks:

Separators

Separator size	Removed from site prior to inspection.							
Vertical or Horizontal								
Age								
Soil impacts present at hatches?	No impacted soils found to exceed table 915-1 during inspection verified by lab results.							
PID Readings	50.1ppm							
Sample taken? Location/ Sample ID#	FL/Sep01@4'							
Photo Number(s)								

Other observations regarding separators

Third Party Equipment

Type								
Age								

Third Party														
Removal Date														
Sample taken?														
PID Readings														
Photo Number(s)														
Other Facility Equipment														
Equipment type	Produced Water Vessel													
Equipment Condition	Removed prior to site visit.													
Age														
Soil impacts observed during	Impacted soils found to exceed table 915-1 during inspection verified by lab results.													
PID Readings	426.8ppm	8.8ppm	1780ppm	23.2ppm	940.4ppm									
Sample taken?	PWV01B@4'	PWV01N@3'	PWV01E@3.5	PWV01S@1'	PWV01W@2'									
Photo Number(s)														
Other observations regarding other facility or third party equipment:														
Summary														
Was impacted soil identified?														
<div> <div>No</div> <div>Yes - less than 10 cubic yards</div> <div>Yes - more than 10 cubic yards</div> </div>														
Total number of samples field screened: 9					Total number of samples collected: 9									
Highest PID Reading: [PWV01E@3'] 1780 ppm					Total number of samples submitted to lab for analysis: 9									
If more than 10 cubic yards of impacted soil were observed:														
Vertical extent: 4'					Estimated spill volume:									
Lateral extent:					Volume of soil removed:									
Is additional investigation required? Yes														
Was groundwater encountered during the investigation?														
<div> <div>No</div> <div>Yes - not impacted or in contact with impacted soils</div> <div>Yes - groundwater impacted and/or in contact with impacted soils</div> </div>														
Measured depth to groundwater: NA					Was remedial groundwater removal conducted? Yes No									
Date Groundwater was encountered: NA					Commencement date of removal:									
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:									
Free product observed? Yes No					Volume of groundwater removed post sampling:									
Total number of samples collected:					Total Volume of groundwater removed:									
Total number of samples submitted to lab for analysis:														



Description:

Facility Placard





Description:

FL/SEP04@4'



Description:

PWVB01@4'



Description:

PWV01N@3'



Description:

PWV01E@3.5'



Description:

PWVS01@1'



Description:

PWVW01@2'



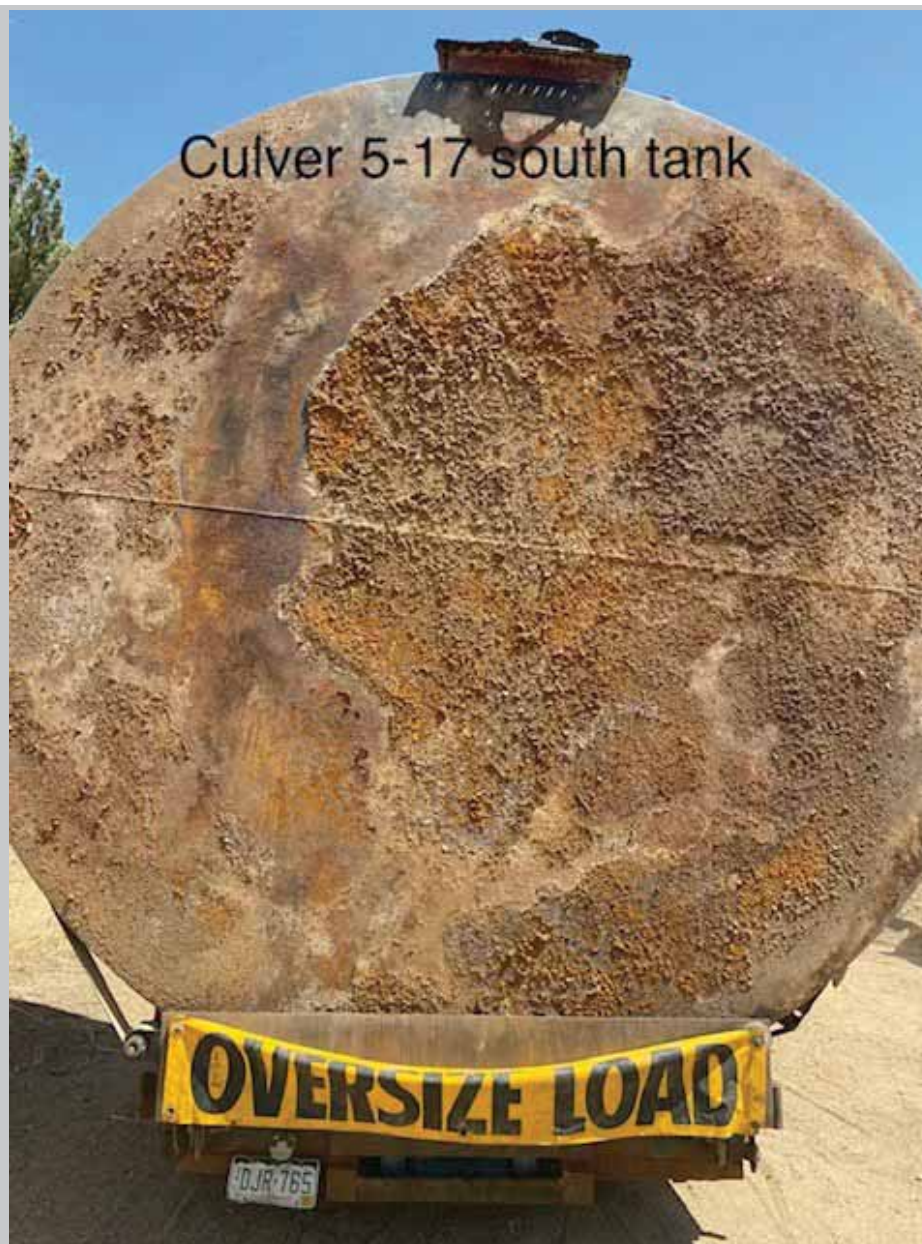
Description:

PWV Excavation



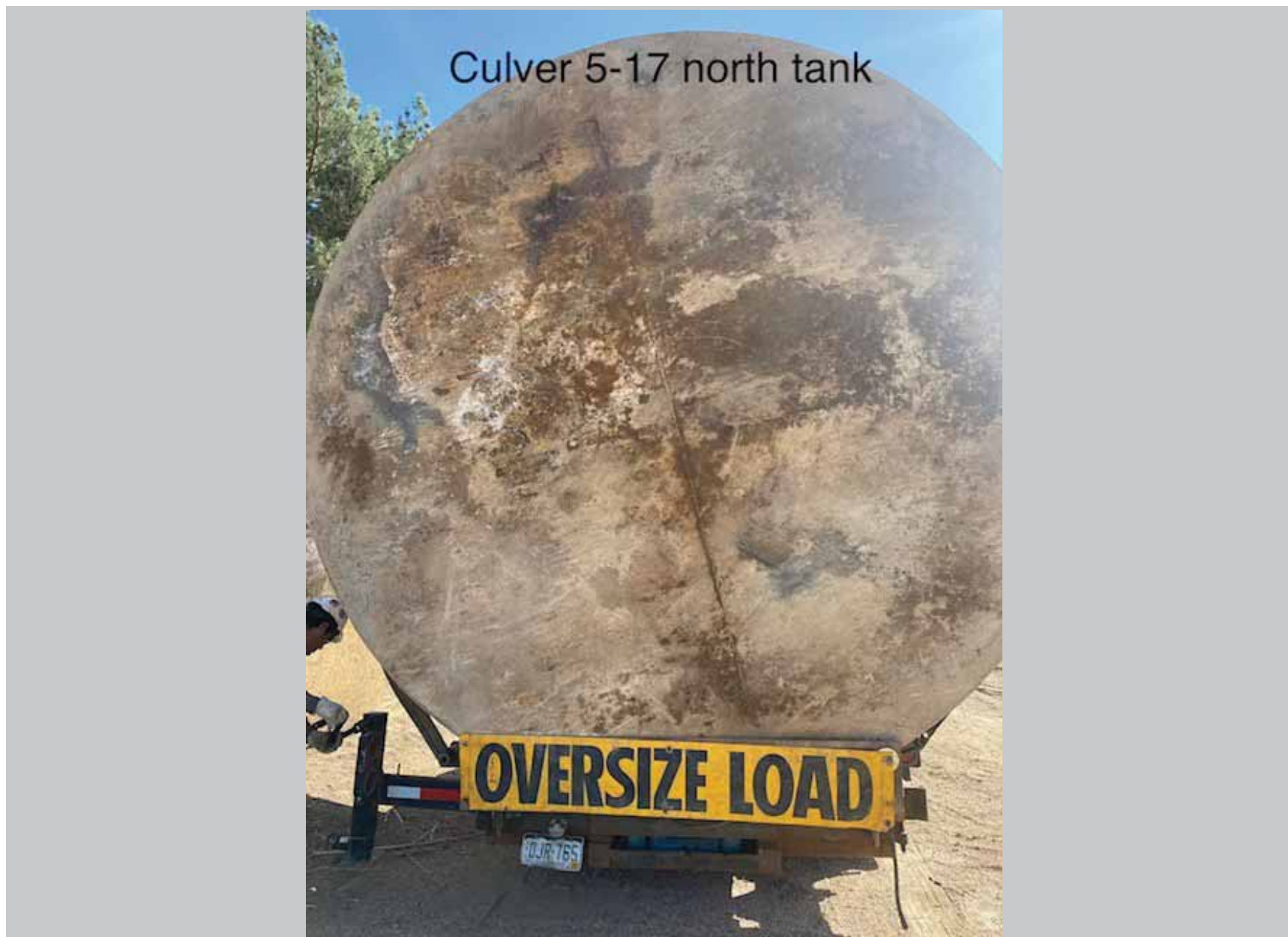
Description:

Former AST Location(s)



Description:

South AST Bottom



Description:

North AST Bottom



April 29, 2022

Apex Companies, LLC
Maggie Graham
4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - Culver 5-17

Project Number - COX1142

Attached are your analytical results for Culver 5-17 received by Origins Laboratory, Inc. April 19, 2022. This project is associated with Origins project number Y204415-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@4"	Y204415-01	Soil	April 19, 2022 11:55	04/19/2022 17:34
Well W/FL01@3'	Y204415-02	Soil	April 19, 2022 12:00	04/19/2022 17:34
FL/SEP04@4'	Y204415-03	Soil	April 19, 2022 12:45	04/19/2022 17:34
AST01@3"	Y204415-04	Soil	April 19, 2022 12:50	04/19/2022 17:34
AST02@2"	Y204415-05	Soil	April 19, 2022 12:58	04/19/2022 17:34
PWV01B@4'	Y204415-06	Soil	April 19, 2022 13:00	04/19/2022 17:34
PWV01N@3'	Y204415-07	Soil	April 19, 2022 13:05	04/19/2022 17:34
PWV01E@3.5'	Y204415-08	Soil	April 19, 2022 13:10	04/19/2022 17:34
PWV01S@1'	Y204415-09	Soil	April 19, 2022 13:15	04/19/2022 17:34
PWV01W@2'	Y204415-10	Soil	April 19, 2022 13:20	04/19/2022 17:34

Origins Laboratory, Inc.



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.

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

ORIGINS
LABORATORY, INC

www.originslaboratory.com

100415

page 1 of 1

Client: Culver 5-17 Apex Project Manager: Maggie Graham
Address: _____ Project Name: Culver 5-17
Telephone Number: _____ Project Number: COX1142
Email Address: Maggie.Graham@apexco.com Samples Collected By: Adam Vaino
Bill to: Culver 5-17

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix	Analysis?	Sample Instructions
				Unpreserved	HCl	HNO ₃			
BK60104"	4-19-22	11:55	2	X			X		Mod. 9.15 Side = BTEX, THMs, Naphthalene TPH, PCBs, SAR, Baran
wall w/ FL6103'		12:00	2	X			X		
FL3000404'		12:45	2	X			X		
AST6103"		12:50	2	X			X		
AST62024'		12:58	2	X			X		
PWV61804'		13:00	2	X			X		
PWV61N03'		13:05	2	X			X		
PWV61E03.5'		13:10	2	X			X		
PWV61501'		13:15	2	X			X		
PWV61W02'		13:20	2	X			X		
Relinquished By: <u>[Signature]</u>	Date: 4-19-22	Time: 17:34		Received By: <u>[Signature]</u>	Date: 4-19-22	Time: 17:34		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>	
Relinquished By: <u>[Signature]</u>	Date: _____	Time: _____		Received By: _____	Date: _____	Time: _____			

Date Results Needed

Temp Received- 5.4

Origins Laboratory, Inc.

[Signature]

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.

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Origins Laboratory

Sample Receipt Checklist

F-012207-01-R1
Effective Date: 01/09/12

Origins Work Order: 1204415

Client: Apex

Client Project ID: Culver 5-17

Checklist Completed by: JKH

Shipped Via: TD

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

Date/time completed: 4/19/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 154 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Kiersey H
Reviewed by (Project Manager)

4/19/12
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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.

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

BKG01@4"

4/19/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.340	0.0999	mg/L	1	B2D2011	04/20/2022	04/21/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.30	0.499	meq/L	10	[CALC]	04/20/2022	04/21/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.76		pH Units	1	B2D2018	04/20/2022	04/21/2022
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SAR by 20B Saturated Paste

SAR	0.0595		SAR	1	B2D2013	04/20/2022	04/21/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.337	0.00500	mmhos/cm	1	B2D2021	04/20/2022	04/21/2022
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Total Metals by 6020B

Arsenic	3.28	0.0855	0.25	mg/Kg	5	L612369	04/22/2022	04/25/2022
Barium	206	0.042	0.25	"	"	"	"	"
Cadmium	0.0928	0.0259	0.25	"	"	"	"	"
Copper	6.53	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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.

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

BKG01@4"

4/19/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.
Y204415-01 (Soil)

Total Metals by 6020B

Lead	11.1	0.031	0.25	mg/Kg	5	L612369	04/22/2022	04/25/2022	
Nickel	8.13	0.0633	0.25	"	"	"	"	"	
Selenium	0.284	0.103	0.25	"	"	"	"	"	
Silver	0.0753	0.0067	0.25	"	"	"	"	"	J
Zinc	38.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L612900	04/19/2022	04/26/2022	
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Origins Laboratory, Inc.



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.

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Well W/FL01@3'

4/19/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y204415-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.200	0.0999	mg/L	1	B2D2011	04/20/2022	04/21/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1919	04/19/2022	04/20/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.9 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1920	04/19/2022	04/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Well W/FL01@3'

4/19/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y204415-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	B2D19 20	04/19/2022	04/19/2022
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.60	0.499	meq/L	10	[CALC]	04/20/2022	04/21/2022
Magnesium	2.23	0.823	"	"	"	"	"
Sodium	3.42	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.83	pH Units	1	B2D2018	04/20/2022	04/21/2022
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SAR by 20B Saturated Paste

SAR	2.00	SAR	1	B2D2013	04/20/2022	04/21/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.868	0.00500	mmhos/cm	1	B2D2021	04/20/2022	04/21/2022
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

FL/SEP04@4'

4/19/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.281	0.100	mg/L	1	B2D2011	04/20/2022	04/21/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1919	04/19/2022	04/20/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.6 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1920	04/19/2022	04/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

FL/SEP04@4'

4/19/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	B2D19 20	04/19/2022	04/19/2022
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.77	0.499	meq/L	10	[CALC]	04/20/2022	04/22/2022
Magnesium	1.75	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.25	pH Units	1	B2D2023	04/20/2022	04/21/2022
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SAR by 20B Saturated Paste

SAR	0.249	SAR	1	B2D2019	04/20/2022	04/22/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.379	0.00500	mmhos/cm	1	B2D2022	04/20/2022	04/21/2022
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

AST01@3"

4/19/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B2D2024	04/20/2022	04/21/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1919	04/19/2022	04/20/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1920	04/19/2022	04/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

AST01@3"

4/19/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	B2D19 20	04/19/2022	04/19/2022
Surrogate: Toluene-d8	97.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.87	0.499	meq/L	10	[CALC]	04/20/2022	04/22/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.19	pH Units	1	B2D2023	04/20/2022	04/21/2022
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SAR by 20B Saturated Paste

SAR	0.0400	SAR	1	B2D2019	04/20/2022	04/22/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.248	0.00500	mmhos/cm	1	B2D2022	04/20/2022	04/21/2022
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

AST02@2"

4/19/2022 12:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2D2024	04/20/2022	04/21/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	70.2	25.0	mg/kg	1	B2D1919	04/19/2022	04/20/2022
Residual Range Organics (C28-C40)	102	100	"	"	"	"	"

Surrogate: o-Terphenyl	95.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1920	04/19/2022	04/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

AST02@2"

4/19/2022 12:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	B2D19 20	04/19/2022	04/19/2022
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.928	0.499	meq/L	10	[CALC]	04/20/2022	04/22/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.29	pH Units	1	B2D2023	04/20/2022	04/21/2022
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SAR by 20B Saturated Paste

SAR	0.336	SAR	1	B2D2019	04/20/2022	04/22/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.255	0.00500	mmhos/cm	1	B2D2022	04/20/2022	04/21/2022
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01B@4'
4/19/2022 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.399	0.0998	mg/L	1	B2D2024	04/20/2022	04/21/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	475	25.0	mg/kg	1	B2D1919	04/19/2022	04/20/2022
Residual Range Organics (C28-C40)	239	100	"	"	"	"	"

Surrogate: o-Terphenyl	96.5 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1920	04/19/2022	04/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	11.5	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130	"	"	"
Surrogate: Toluene-d8	96.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01B@4'
4/19/2022 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 158 % 70-130 B2D19 20 04/19/2022 04/19/2022-04

Metals by Saturated Paste by EPA 6010

Calcium	5.55	0.499	meq/L	10	[CALC]	04/20/2022	04/22/2022
Magnesium	5.51	0.823	"	"	"	"	"
Sodium	2.54	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0907	0.00364	0.0067	mg/Kg	10	L612440	04/23/2022	04/26/2022
2-Methylnaphthalene	0.132	0.00645	0.0067	"	"	"	"	"
Acenaphthene	0.0225	0.00304	0.0067	"	"	"	"	"
Anthracene	ND	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	0.00858	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	0.0304	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"
Fluorene	0.0481	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01B@4'
4/19/2022 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204415-06 (Soil)

PAH by 8270D SIM

Naphthalene	0.0243	0.00484	0.0067	mg/Kg	10	L612440	04/23/2022	04/26/2022	
Pyrene	0.0108	0.00643	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	69 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.78			pH Units	1	B2D2023	04/20/2022	04/21/2022	
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SAR by 20B Saturated Paste

SAR	1.08			SAR	1	B2D2019	04/20/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.08		0.00500	mmhos/cm	1	B2D2022	04/20/2022	04/21/2022	
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Total Metals by 6020B

Arsenic	3.8	0.0855	0.25	mg/Kg	5	L612369	04/22/2022	04/25/2022	
Barium	162	0.042	0.25	"	"	"	"	"	
Cadmium	0.22	0.0259	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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.

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01B@4'

4/19/2022 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204415-06 (Soil)

Total Metals by 6020B

Copper	16.7	0.0806	0.25	mg/Kg	5	L612369	04/22/2022	04/25/2022	
Lead	15.4	0.031	0.25	"	"	"	"	"	
Nickel	19.5	0.0633	0.25	"	"	"	"	"	
Selenium	0.477	0.103	0.25	"	"	"	"	"	
Silver	0.0651	0.0067	0.25	"	"	"	"	"	J
Zinc	70.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L612900	04/19/2022	04/26/2022	
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01N@3'
4/19/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2D2024	04/20/2022	04/21/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1919	04/19/2022	04/20/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.2 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1920	04/19/2022	04/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01N@3'
4/19/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.6 %	70-130	B2D19 20	04/19/2022	04/19/2022
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.34	0.499	meq/L	10	[CALC]	04/20/2022	04/22/2022
Magnesium	1.23	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L612440	04/23/2022	04/26/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"
Anthracene	ND	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	ND	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01N@3'
4/19/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204415-07 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L612440	04/23/2022	04/26/2022
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"
Pyrene	ND	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.9 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	63.7 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	55.3 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.53			pH Units	1	B2D2023	04/20/2022	04/21/2022
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SAR by 20B Saturated Paste

SAR	0.111			SAR	1	B2D2019	04/20/2022	04/22/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.266		0.00500	mmhos/cm	1	B2D2022	04/20/2022	04/21/2022
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L612901	04/19/2022	04/26/2022
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01N@3'
4/19/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204415-07 (Soil)

Total Metals by 6020B

Arsenic	2.09	0.0855	0.25	mg/Kg	5	L612369	04/22/2022	04/25/2022	
Barium	115	0.042	0.25	"	"	"	"	"	
Cadmium	0.137	0.0259	0.25	"	"	"	"	"	J
Copper	8.16	0.0806	0.25	"	"	"	"	"	
Lead	8.06	0.031	0.25	"	"	"	"	"	
Nickel	10.2	0.0633	0.25	"	"	"	"	"	
Selenium	0.354	0.103	0.25	"	"	"	"	"	
Silver	0.0404	0.0067	0.25	"	"	"	"	"	J
Zinc	35.1	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01E@3.5'
4/19/2022 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.723	0.100	mg/L	1	B2D2024	04/20/2022	04/21/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1660	25.0	mg/kg	1	B2D1919	04/19/2022	04/20/2022
Residual Range Organics (C28-C40)	613	100	"	"	"	"	"

Surrogate: o-Terphenyl	107 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0801	0.00200	mg/kg	1	B2D1920	04/19/2022	04/20/2022
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	U
Benzene	0.00664	0.00200	"	"	"	"	"
Ethylbenzene	ND	0.00200	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	U
Xylenes, total	0.00336	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	62.2	5.00	"	25	"	"	04/19/2022

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130	"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01E@3.5'
4/19/2022 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-08 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.47	0.499	meq/L	10	[CALC]	04/20/2022	04/22/2022
Magnesium	2.31	0.823	"	"	"	"	"
Sodium	1.36	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	1.52	0.00364	0.0067	mg/Kg	10	L612440	04/23/2022	04/26/2022
2-Methylnaphthalene	2.75	0.00645	0.0067	"	"	"	"	"
Acenaphthene	0.163	0.00304	0.0067	"	"	"	"	"
Anthracene	0.00909	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	0.0116	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	0.0601	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	0.00554	0.00394	0.0067	"	"	"	"	"
Fluorene	0.348	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	0.715	0.00484	0.0067	"	"	"	"	"
Pyrene	0.0275	0.00643	0.0067	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	55.8 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	70.3 %		33-122			"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01E@3.5'
4/19/2022 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204415-08 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	98.2 %	29-110	L6124 40	04/23/2022	04/26/2022
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pH in Soil by 9045D

pH	8.67	pH Units	1	B2D2023	04/20/2022	04/21/2022
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SAR by 20B Saturated Paste

SAR	0.987	SAR	1	B2D2019	04/20/2022	04/22/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.581	0.00500	mmhos/cm	1	B2D2022	04/20/2022	04/21/2022
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L612901	04/19/2022	04/26/2022
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Total Metals by 6020B

Arsenic	1.93	0.0855	0.25	mg/Kg	5	L612369	04/22/2022	04/25/2022
Barium	128	0.042	0.25	"	"	"	"	"
Cadmium	0.143	0.0259	0.25	"	"	"	"	"
Copper	13.4	0.0806	0.25	"	"	"	"	"
Lead	10.7	0.031	0.25	"	"	"	"	"
Nickel	13.6	0.0633	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01E@3.5'

4/19/2022 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204415-08 (Soil)

Total Metals by 6020B

Selenium	0.456	0.103	0.25	mg/Kg	5	L612369	04/22/2022	04/25/2022	
Silver	0.0526	0.0067	0.25	"	"	"	"	"	J
Zinc	48.8	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01S@1'
4/19/2022 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.241	0.100	mg/L	1	B2D2024	04/20/2022	04/21/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1919	04/19/2022	04/20/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.2 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1920	04/19/2022	04/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01S@1'
4/19/2022 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.8 %	70-130	B2D19 20	04/19/2022	04/19/2022
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.35	0.499	meq/L	10	[CALC]	04/20/2022	04/22/2022
Magnesium	1.28	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612440	04/23/2022	04/26/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01S@1'
4/19/2022 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204415-09 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L612440	04/23/2022	04/26/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.7 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	70.5 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	46.5 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.48			pH Units	1	B2D2023	04/20/2022	04/21/2022
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SAR by 20B Saturated Paste

SAR	0.0568			SAR	1	B2D2019	04/20/2022	04/22/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.272		0.00500	mmhos/cm	1	B2D2022	04/20/2022	04/21/2022
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L612901	04/19/2022	04/26/2022
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01S@1'
4/19/2022 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204415-09 (Soil)

Total Metals by 6020B

Arsenic	2.52	0.0855	0.25	mg/Kg	5	L612369	04/22/2022	04/25/2022	
Barium	120	0.042	0.25	"	"	"	"	"	
Cadmium	0.146	0.0259	0.25	"	"	"	"	"	J
Copper	10	0.0806	0.25	"	"	"	"	"	
Lead	9.08	0.031	0.25	"	"	"	"	"	
Nickel	11.6	0.0633	0.25	"	"	"	"	"	
Selenium	0.385	0.103	0.25	"	"	"	"	"	
Silver	0.048	0.0067	0.25	"	"	"	"	"	J
Zinc	42	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01W@2'
4/19/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.709	0.0985	mg/L	1	B2D2024	04/20/2022	04/21/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1919	04/19/2022	04/20/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.6 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1920	04/19/2022	04/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01W@2'

4/19/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204415-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.9 %		70-130			B2D19 20	04/19/2022	04/19/2022	
Surrogate: 4-Bromofluorobenzene	99.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.65		0.499	meq/L	10	[CALC]	04/20/2022	04/22/2022	
Magnesium	1.56		0.823	"	"	"	"	"	
Sodium	0.448		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0155	0.000364	0.00067	mg/Kg	1	L612440	04/23/2022	04/26/2022	
2-Methylnaphthalene	0.0268	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.0021	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000801	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0042	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01W@2'
4/19/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204415-10 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L612440	04/23/2022	04/26/2022
Naphthalene	0.00571	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	66 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	82.1 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	49.5 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.47			pH Units	1	B2D2023	04/20/2022	04/21/2022
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SAR by 20B Saturated Paste

SAR	0.353			SAR	1	B2D2019	04/20/2022	04/22/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.365		0.00500	mmhos/cm	1	B2D2022	04/20/2022	04/21/2022
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L612901	04/19/2022	04/26/2022
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Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PWV01W@2'

4/19/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204415-10 (Soil)

Total Metals by 6020B

Arsenic	2.27	0.0855	0.25	mg/Kg	5	L612369	04/22/2022	04/25/2022	
Barium	115	0.042	0.25	"	"	"	"	"	
Cadmium	0.152	0.0259	0.25	"	"	"	"	"	J
Copper	9.73	0.0806	0.25	"	"	"	"	"	
Lead	8.86	0.031	0.25	"	"	"	"	"	
Nickel	11.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.345	0.103	0.25	"	"	"	"	"	
Silver	0.0421	0.0067	0.25	"	"	"	"	"	J
Zinc	42.3	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D1919 - EPA 3550B										
Blank (B2D1919-BLK1)					Prepared: 04/19/2022 Analyzed: 04/20/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		98.7	50-150			

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D1919 - EPA 3550B

LCS (B2D1919-BS1)

Prepared: 04/19/2022 Analyzed: 04/20/2022

Diesel (C10-C28)	923	50.0	mg/kg	1000		92.3	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.0	50-150			

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1
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Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D1919 - EPA 3550B

Matrix Spike (B2D1919-MS1)		Source: Y204414-01			Prepared: 04/19/2022 Analyzed: 04/20/2022					
Diesel (C10-C28)	850	50.0	mg/kg	1000	ND	85.0	70-130			
Residual Range Organics (C28-C40)	974	200	"	1000	ND	97.4	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.8	50-150			

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Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D1919 - EPA 3550B										
Matrix Spike Dup (B2D1919-MSD1)		Source: Y204414-01			Prepared: 04/19/2022 Analyzed: 04/20/2022					
Diesel (C10-C28)	863	50.0	mg/kg	1000	ND	86.3	70-130	1.61	35	
Residual Range Organics (C28-C40)	992	200	"	1000	ND	99.2	70-130	1.83	35	
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D1920 - EPA 5030 (soil)										
Blank (B2D1920-BLK1)					Prepared: 04/19/2022 Analyzed: 04/19/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D1920 - EPA 5030 (soil)										
LCS (B2D1920-BS1)					Prepared: 04/19/2022 Analyzed: 04/19/2022					
1,2,4-Trimethylbenzene	0.0957	0.00200	mg/kg	0.100		95.7	70-130			
1,3,5-Trimethylbenzene	0.0976	0.00200	"	0.100		97.6	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0953	0.00200	"	0.100		95.3	70-130			
Naphthalene	0.0913	0.0100	"	0.100		91.3	70-130			
Toluene	0.0909	0.00200	"	0.100		90.9	70-130			
o-Xylene	0.0950	0.00200	"	0.100		95.0	70-130			
m,p-Xylene	0.196	0.00400	"	0.200		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D1920 - EPA 5030 (soil)										
Matrix Spike (B2D1920-MS1)		Source: Y204415-02			Prepared: 04/19/2022 Analyzed: 04/19/2022					
1,2,4-Trimethylbenzene	0.0954	0.00200	mg/kg	0.100	ND	95.4	70-130			
1,3,5-Trimethylbenzene	0.0962	0.00200	"	0.100	ND	96.2	70-130			
Benzene	0.0988	0.00200	"	0.100	ND	98.8	70-130			
Ethylbenzene	0.0962	0.00200	"	0.100	ND	96.2	70-130			
Naphthalene	0.0872	0.0100	"	0.100	0.00170	85.5	70-130			
Toluene	0.0888	0.00200	"	0.100	ND	88.8	70-130			
o-Xylene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D1920 - EPA 5030 (soil)										
Matrix Spike Dup (B2D1920-MSD1)		Source: Y204415-02			Prepared: 04/19/2022 Analyzed: 04/19/2022					
1,2,4-Trimethylbenzene	0.0845	0.00200	mg/kg	0.100	ND	84.5	70-130	12.1	20	
1,3,5-Trimethylbenzene	0.0849	0.00200	"	0.100	ND	84.9	70-130	12.5	20	
Benzene	0.0920	0.00200	"	0.100	ND	92.0	70-130	7.08	20	
Ethylbenzene	0.0867	0.00200	"	0.100	ND	86.7	70-130	10.4	20	
Naphthalene	0.0770	0.0100	"	0.100	0.00170	75.3	70-130	12.4	20	
Toluene	0.0833	0.00200	"	0.100	ND	83.3	70-130	6.34	20	
o-Xylene	0.0885	0.00200	"	0.100	ND	88.5	70-130	9.06	20	
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.7	70-130	10.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D2018 - NO PREP

Duplicate (B2D2018-DUP1)		Source: Y204409-03		Prepared: 04/20/2022 Analyzed: 04/21/2022						
pH	7.80		pH Units		8.08			3.53	25	

Batch B2D2021 - NO PREP

Blank (B2D2021-BLK1)		Prepared: 04/20/2022 Analyzed: 04/21/2022								
Specific Conductance (EC)	0.000900	0.00500	mmhos/cm							
Duplicate (B2D2021-DUP1)		Source: Y204409-03		Prepared: 04/20/2022 Analyzed: 04/21/2022						
Specific Conductance (EC)	1.35	0.00500	mmhos/cm		1.12			18.2	25	

Batch B2D2022 - NO PREP

Blank (B2D2022-BLK1)		Prepared: 04/20/2022 Analyzed: 04/21/2022								
Specific Conductance (EC)	0.00480	0.00500	mmhos/cm							
Duplicate (B2D2022-DUP1)		Source: Y204415-03		Prepared: 04/20/2022 Analyzed: 04/21/2022						
Specific Conductance (EC)	0.375	0.00500	mmhos/cm		0.379			1.09	25	

Batch B2D2023 - NO PREP

Duplicate (B2D2023-DUP1)		Source: Y204415-03		Prepared: 04/20/2022 Analyzed: 04/21/2022						
pH	8.19		pH Units		8.25			0.730	25	

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612440 - 3550B

MSD (L 95847-MSD-L612440)		Source: 95847			Prepared: 04/23/2022 Analyzed: 04/26/2022					
Pyrene	0.122	0.000643	mg/Kg	0.163	95847	74.8	30-130	18.5	30	
Benzo(a)pyrene	0.109	0.000468	"	0.163	95847	66.8	30-130	12	30	
Benzo(a)anthracene	0.105	0.000493	"	0.163	95847	64.4	30-130	9	30	
Acenaphthene	0.097	0.000304	"	0.163	95847	59.5	30-130	4	30	
Fluorene	0.103	0.000286	"	0.163	95847	63.1	30-130	0	30	
2-Methylnaphthalene	0.101	0.000645	"	0.163	95847	61.9	30-130	2.6	30	
1-Methylnaphthalene	0.112	0.000364	"	0.163	95847	68.7	30-130	3.5	30	
Benzo(b)fluoranthene	0.107	0.000585	"	0.163	95847	65.6	30-130	20.9	30	
Benzo(k)fluoranthene	0.113	0.000437	"	0.163	95847	69.3	30-130	12.4	30	
Chrysene	0.103	0.000624	"	0.163	95847	63.1	30-130	21.6	30	
Dibenz(a,h)anthracene	0.168	0.000614	"	0.163	95847	103	30-130	3.5	30	
Fluoranthene	0.121	0.000394	"	0.163	95847	74.2	30-130	17.3	30	
Naphthalene	0.099	0.000484	"	0.163	95847	60.7	30-130	2	30	
Indeno(1,2,3-cd)pyrene	0.151	0.000627	"	0.163	95847	92.6	30-130	9.4	30	
Anthracene	0.121	0.000334	"	0.163	95847	74.2	30-130	13.1	30	
Surrogate: 4-Terphenyl-d14	82.2		"	0.327	278	82.2	33-122			
Surrogate: 2-Fluorobiphenyl	58.4		"	0.327	237	58.4	33-115			
Surrogate: Nitrobenzene-d5	46.1		"	0.327	180	46.1	29-110			

MS (L 95847-MS-L612440)		Source: 95847			Prepared: 04/23/2022 Analyzed: 04/26/2022					
Benzo(b)fluoranthene	0.132	0.000585	mg/Kg	0.165	95847	80	30-130			
Benzo(a)pyrene	0.123	0.000468	"	0.165	95847	74.5	30-130			
Benzo(a)anthracene	0.115	0.000493	"	0.165	95847	69.6	30-130			
Anthracene	0.138	0.000334	"	0.165	95847	83.6	30-130			
Acenaphthene	0.101	0.000304	"	0.165	95847	61.2	30-130			
2-Methylnaphthalene	0.0984	0.000645	"	0.165	95847	59.6	30-130			
1-Methylnaphthalene	0.116	0.000364	"	0.165	95847	70.3	30-130			

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612440 - 3550B

MS (L 95847-MS-L612440)		Source: 95847			Prepared: 04/23/2022 Analyzed: 04/26/2022					
Fluoranthene	0.144	0.000394	mg/Kg	0.165	95847	87.2	30-130			
Dibenz(a,h)anthracene	0.174	0.000614	"	0.165	95847	105	30-130			
Fluorene	0.103	0.000286	"	0.165	95847	62.4	30-130			
Indeno(1,2,3-cd)pyrene	0.166	0.000627	"	0.165	95847	101	30-130			
Naphthalene	0.101	0.000484	"	0.165	95847	61.2	30-130			
Pyrene	0.147	0.000643	"	0.165	95847	89	30-130			
Benzo(k)fluoranthene	0.128	0.000437	"	0.165	95847	77.5	30-130			
Chrysene	0.128	0.000624	"	0.165	95847	77.5	30-130			
Surrogate: 4-Terphenyl-d14	109		"	0.33	278	109	33-122			
Surrogate: 2-Fluorobiphenyl	69.6		"	0.33	237	69.6	33-115			
Surrogate: Nitrobenzene-d5	53.3		"	0.33	180	53.3	29-110			

LCS (LCS-L612440)		Prepared: 04/23/2022 Analyzed: 04/26/2022								
Fluorene	0.101	0.000286	mg/Kg	0.167		60.4	30-130			
2-Methylnaphthalene	0.0996	0.000645	"	0.167		59.6	30-130			
Anthracene	0.127	0.000334	"	0.167		76	30-130			
Benzo(a)pyrene	0.117	0.000468	"	0.167		70	30-130			
Benzo(b)fluoranthene	0.13	0.000585	"	0.167		77.8	30-130			
Benzo(k)fluoranthene	0.122	0.000437	"	0.167		73	30-130			
Chrysene	0.113	0.000624	"	0.167		67.6	30-130			
1-Methylnaphthalene	0.113	0.000364	"	0.167		67.6	30-130			
Fluoranthene	0.131	0.000394	"	0.167		78.4	30-130			
Acenaphthene	0.0975	0.000304	"	0.167		58.3	30-130			
Indeno(1,2,3-cd)pyrene	0.153	0.000627	"	0.167		91.6	30-130			
Naphthalene	0.102	0.000484	"	0.167		61	30-130			
Pyrene	0.135	0.000643	"	0.167		80.8	30-130			
Dibenz(a,h)anthracene	0.17	0.000614	"	0.167		102	30-130			

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612440 - 3550B

LCS (LCS-L612440)

Prepared: 04/23/2022 Analyzed: 04/26/2022

Benzo(a)anthracene	0.114	0.000493	mg/Kg	0.167		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	81.6		"	0.333		81.6	33-115			
Surrogate: 4-Terphenyl-d14	107		"	0.333		107	33-122			
Surrogate: Nitrobenzene-d5	59.4		"	0.333		59.4	29-110			

LRB (LRB-L612440)

Prepared: 04/23/2022 Analyzed: 04/26/2022

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	83.4		"	0.333		83.4	33-115			
Surrogate: 4-Terphenyl-d14	88.5		"	0.333		88.5	33-122			
Surrogate: Nitrobenzene-d5	59.7		"	0.333		59.7	29-110			

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L612901 -										
DUP (L 95853-DUP)	Source: Y204415-07				Prepared: Analyzed: 04/26/2022					
Chromium, Hexavalent	ND	0.251	mg/Kg		95853	-		0	20	
MS (L 95853-MS)	Source: Y204415-07				Prepared: Analyzed: 04/26/2022					
Chromium, Hexavalent	5.32	0.252	mg/Kg	8.3	95853	64	75-125			*
LCS (LCS)	Prepared: Analyzed: 04/26/2022									
Chromium, Hexavalent	6.57	0.244	mg/Kg	8		82	75-125			

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Total Metals by 6020B - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L612369 - 3050B										
MSD (L 95856-MSD-L612369)			Source: Y204415-10		Prepared: 04/22/2022 Analyzed: 04/25/2022					
Selenium	3.48	0.103	mg/Kg	4.73	0.345	66	75-125	5.3	80	*
Nickel	14	0.0633	"	2.37	11.7	97	75-125	8.1	80	
Lead	10.9	0.031	"	2.37	8.86	86	75-125	5.6	80	
Copper	11.9	0.0806	"	2.37	9.73	92	75-125	8.7	80	
Cadmium	0.584	0.0259	"	0.473	0.152	91	75-125	2.5	80	
Barium	116	0.042	"	4.73	115	21	75-125	17.3	80	*
Arsenic	3.89	0.0855	"	2.37	2.27	68	75-125	2.8	80	*
Zinc	67.2	0.534	"	23.7	42.3	105	75-125	12.6	80	
Silver	0.473	0.0067	"	0.473	0.0421	91	75-125	0.2	80	
MS (L 95856-MS-L612369)			Source: Y204415-10		Prepared: 04/22/2022 Analyzed: 04/25/2022					
Nickel	12.9	0.0633	mg/Kg	2.36	11.7	51	75-125			*
Lead	10.3	0.031	"	2.36	8.86	61	75-125			*
Copper	10.9	0.0806	"	2.36	9.73	50	75-125			*
Cadmium	0.599	0.0259	"	0.472	0.152	95	75-125			
Zinc	59.2	0.534	"	23.6	42.3	72	75-125			*
Barium	138	0.042	"	4.72	115	487	75-125			*
Silver	0.474	0.0067	"	0.472	0.0421	91	75-125			
Arsenic	3.78	0.0855	"	2.36	2.27	64	75-125			*
Selenium	3.3	0.103	"	4.72	0.345	63	75-125			*
LCS (LCS-L612369)			Prepared: 04/22/2022 Analyzed: 04/25/2022							
Zinc	24.9	0.534	mg/Kg	25		100	80-120			
Barium	5.14	0.042	"	5		103	80-120			
Cadmium	0.476	0.0259	"	0.5		95	80-120			
Copper	2.34	0.0806	"	2.5		94	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Total Metals by 6020B - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612369 - 3050B

LCS (LCS-L612369)

Prepared: 04/22/2022 Analyzed: 04/25/2022

Nickel	2.36	0.0633	mg/Kg	2.5		94	80-120			
Selenium	4.55	0.103	"	5		91	80-120			
Silver	0.49	0.0067	"	0.5		98	80-120			
Arsenic	2.4	0.0855	"	2.5		96	80-120			

LRB (LRB-L612369)

Prepared: 04/22/2022 Analyzed: 04/25/2022

Silver	ND	0.25	mg/Kg				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	0.0425	0.25	"				-			
Arsenic	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

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Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L612900 -										
DUP (L 95842-DUP)		Source: 95842			Prepared: Analyzed: 04/26/2022					
Chromium, Hexavalent	ND	0.248	mg/Kg		95842	-		0	20	
MS (L 95842-MS)		Source: 95842			Prepared: Analyzed: 04/26/2022					
Chromium, Hexavalent	6.15	0.25	mg/Kg	8.22	95842	75	75-125			
LRB (LRB)					Prepared: Analyzed: 04/26/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Maggie Graham
Project Number: COX1142
Project: Culver 5-17

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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