



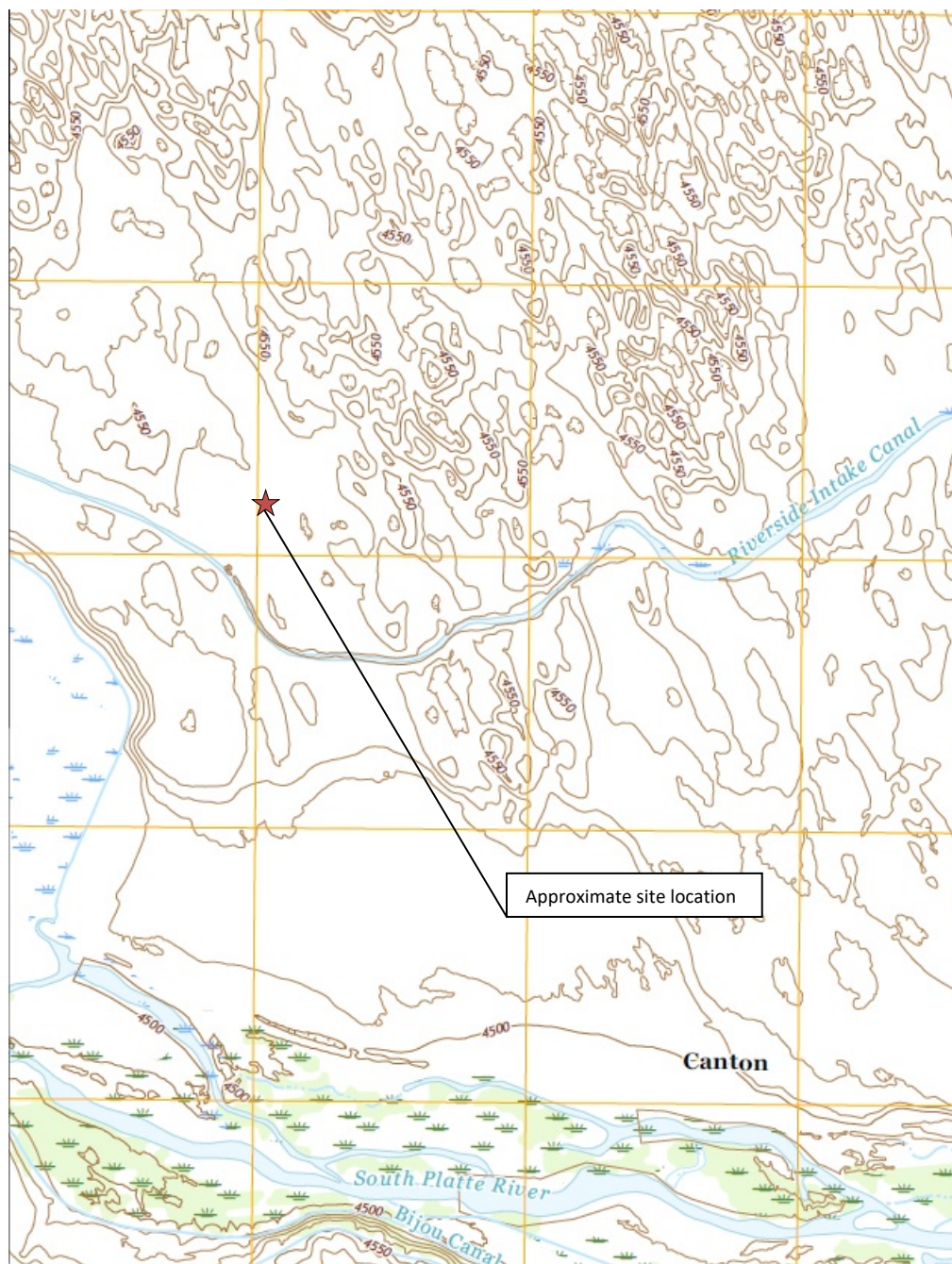
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map



Topographic Site Location Map
 State Seventy Holes T-6
 Flowline Release
 40.335518 / -104.364126
 SE¼ SEC.6 T4N R62W 6PM
 Weld County, Colorado
 Location ID 433001
 Spill ID 479242

Source: USGS 7.5 Minute Topographic
 Map, Dearfield, CO Quadrangle 2019

Figure 1

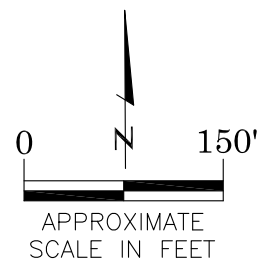


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LEGEND

- APPROXIMATE PAD BOUNDARIES (AS OF 2016)
- APPROXIMATE RELEASE LOCATION



AERIAL SITE LOCATION MAP
 STATE SEVENTY HOLES T-6
 FLOWLINE RELEASE
 40.335518 / -104.364126
 SE1/4 SE1/4 SEC.6 T4N R62W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 433001
 SPILL ID 479242

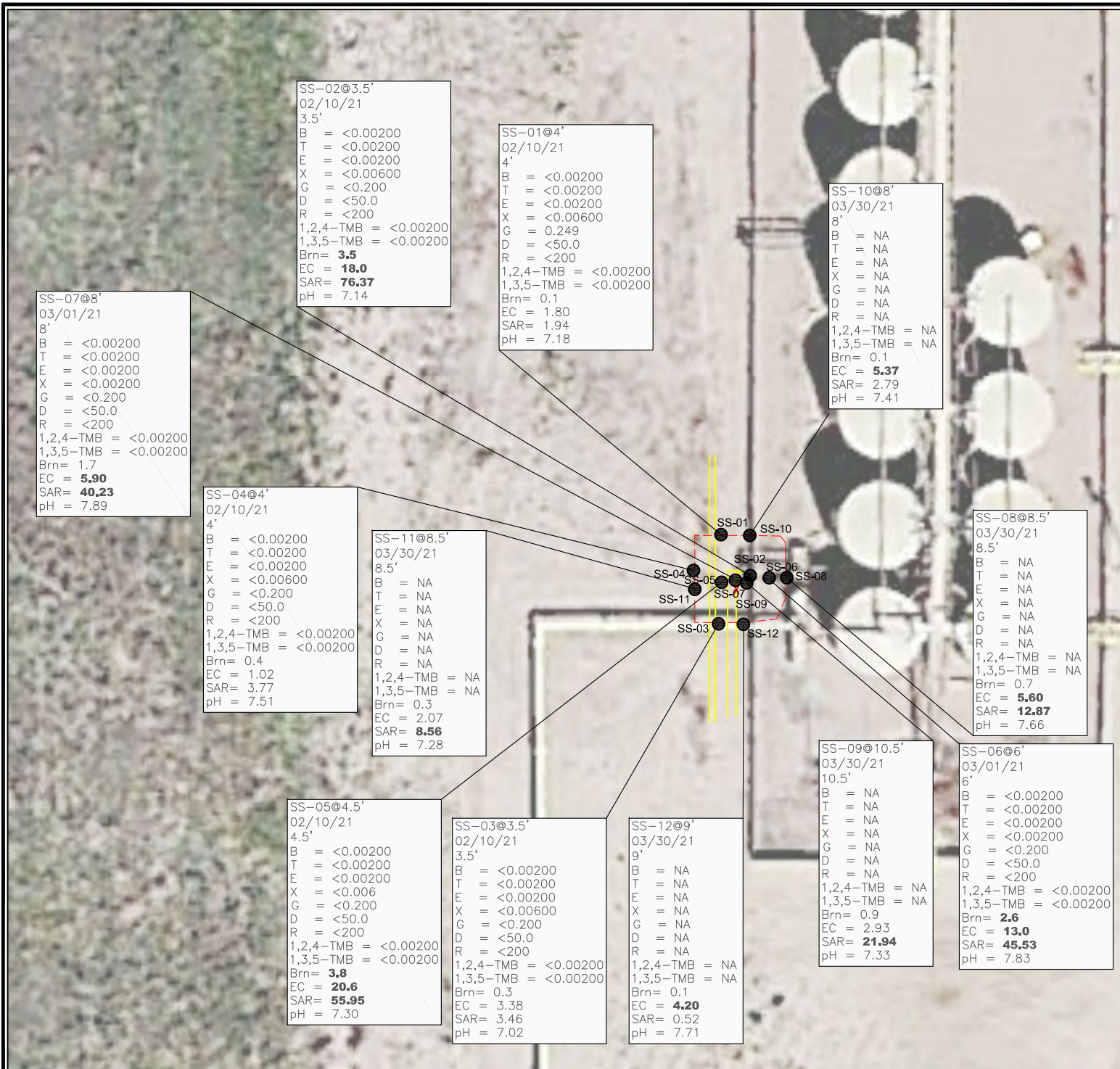
DATE:
04/12/21

FIG. NO.
2

DRAWN BY:
AMN



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LEGEND

- X APPROXIMATE RELEASE LOCATION
- APPROXIMATE FLOWLINE LOCATIONS
- - - APPROXIMATE EXCAVATION/ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES
- SS-02 SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION

DATE

DEPTH (FEET)

B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (PH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM

mg/L = MILLIGRAMS PER LITER

NA = NOT ANALYZED

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

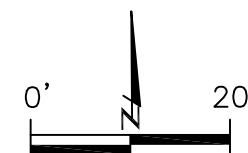
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 VALUES

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



APPROXIMATE
SCALE IN FEET

SOIL ANALYTICAL MAP
STATE SEVENTY HOLES T-6
FLOWLINE RELEASE
40.335518 / -104.364126
SE1/4 SE1/4 SEC.6 T4N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 433001
SPILL ID 479242

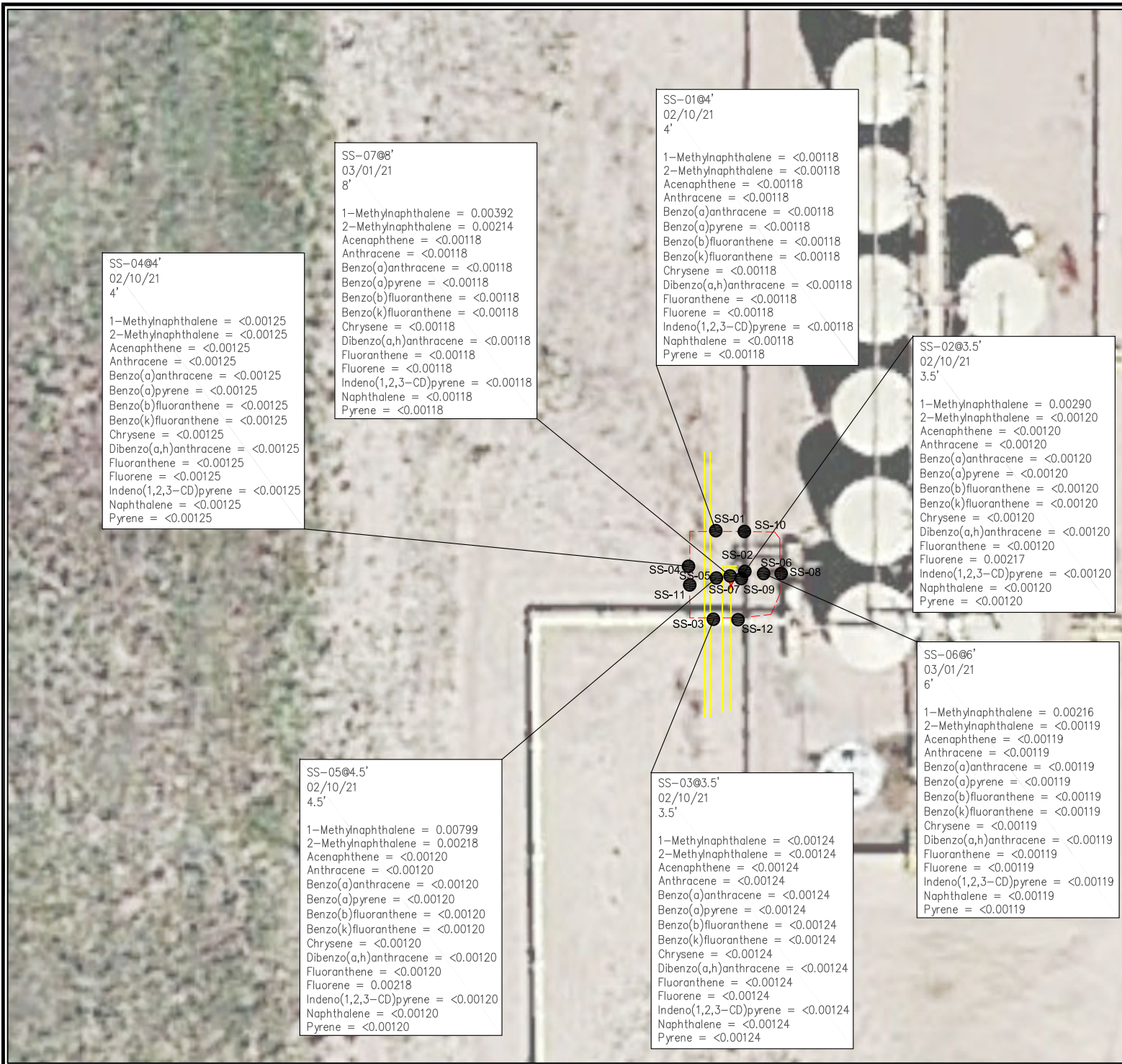
DATE:
04/12/21

DRAWN BY:
AMN

FIG.
NO. 3



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LEGEND

- X APPROXIMATE RELEASE LOCATION
- APPROXIMATE FLOWLINE LOCATIONS
- - - APPROXIMATE EXCAVATION/ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES
SS-02 SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

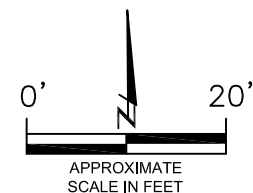
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

NOTE:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT
CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY
DETECTION LIMITS

SAMPLES COLLECTED FROM SS-08 THROUGH SS-12 WERE
NOT SUBMITTED FOR PAH ANALYSIS.



POLYCYCLIC AROMATIC HYDROCARBONS MAP
STATE SEVENTY HOLES T-6
FLOWLINE RELEASE
40.335518 / -104.364126
SE1/4 SE1/4 SEC.6 T4N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 433001
SPILL ID 479242

DATE:
04/12/21
DRAWN BY:
AMN
FIG.
NO. 4



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
STATE SEVENTY HOLES T-6
FLOWLINE RELEASE
40.335518 / -104.364126
SE1/4 SE1/4 SEC.6 T4N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 433001
SPILL ID 479242

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
SS-01 @ 4' (40.333559 / -104.364103)	02/10/21	4	6.9	Y
SS-02 @ 3.5' (40.333536 / -104.364090)	02/10/21	3.5	6.0	Y
SS-03 @ 3.5' (40.333518 / -104.364103)	02/10/21	3.5	3.9	Y
SS-04 @ 4' (40.333538 / -104.364117)	02/10/21	4	4.2	Y
SS-05 @ 4.5' (40.333538 / -104.364102)	02/10/21	4.5	21.7	Y
SS-06 @ 6' (40.333541 / -104.364085)	03/01/21	6	8.3	Y
SS-07 @ 8' (40.333534 / -104.364103)	03/01/21	8	6.2	Y
SS-08 @ 8.5' (40.333535 / -104.364070)	03/30/21	8.5	0.0	Y
SS-09 @ 10.5' (40.333537 / -104.364094)	03/30/21	10.5	0.1	Y
SS-10 @ 8' (40.335559 / -104.364094)	03/30/21	8	0.0	Y
SS-11 @ 8.5' (40.335538 / -104.364112)	03/30/21	8.5	0.0	Y
SS-12 @ 9' (40.335519 / -104.364096)	03/30/21	9	0.0	Y
(Y/N) = Yes or No ppm-v = parts per million by volume				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
STATE SEVENTY HOLES T-6
FLOWLINE RELEASE
40.335518 / -104.364126
SE1/4 SE1/4 SEC.6 T4N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 433001
SPILL ID 479242

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels				1.2	490	5.8	58	500			30	27	2	<4	6-8.3	<6
SS-01 @ 4' (40.333559 / -104.364103)	02/10/21	4	6.9	<0.00200	<0.00200	<0.00200	<0.00600	0.249	<50.0	<200	<0.00200	<0.00200	0.1	1.80	7.18	1.94
SS-02 @ 3.5' (40.333536 / -104.364090)	02/10/21	3.5	6.0	<0.00200	<0.00200	<0.00200	<0.00600	<0.200	<50.0	<200	<0.00200	<0.00200	3.5	18.0	7.14	76.37
SS-03 @ 3.5' (40.333518 / -104.364103)	02/10/21	3.5	3.9	<0.00200	<0.00200	<0.00200	<0.00600	<0.200	<50.0	<200	<0.00200	<0.00200	0.3	3.38	7.02	3.46
SS-04 @ 4' (40.333538 / -104.364117)	02/10/21	4	4.2	<0.00200	<0.00200	<0.00200	<0.00600	<0.200	<50.0	<200	<0.00200	<0.00200	0.4	1.02	7.51	3.77
SS-05 @ 4.5' (40.333538 / -104.364102)	02/10/21	4.5	21.7	<0.00200	<0.00200	<0.00200	<0.00600	<0.200	<50.0	<200	<0.00200	<0.00200	3.8	20.6	7.30	55.95
SS-06 @ 6' (40.333541 / -104.364085)	03/01/21	6	8.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	2.6	13.0	7.83	45.53
SS-07 @ 8' (40.333534 / -104.364103)	03/01/21	8	6.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	1.7	5.90	7.89	40.23
SS-08 @ 8.5' (40.333535 / -104.364070)	03/30/21	8.5	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.7	5.60	7.66	12.87
SS-09 @ 10.5' (40.333537 / -104.364094)	03/30/21	10.5	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.9	2.93	7.33	21.94
SS-10 @ 8' (40.335559 / -104.364094)	03/30/21	8	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.1	5.37	7.41	2.79
SS-11 @ 8.5' (40.335538 / -104.364112)	03/30/21	8.5	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.3	2.07	7.28	8.56
SS-12 @ 9' (40.335519 / -104.364096)	03/30/21	9	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.1	4.20	7.71	0.52

COGCC = Colorado Oil and Gas Conservation Commission

NA = Not Analyzed

mg/L = milligrams per liter

mg/kg = milligrams per kilogram

mmhos/cm = millimhos per centimeter

SAR = Sodium Adsorption Ratio

ppm-v = parts per million by volume

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits

TABLE 3
AERIAL HYDROCARBONS ANALYTICAL RESULTS SUMMARY
STATE SEVENTY HOLES T-6
FLOWLINE RELEASE
40.335518 / -104.364126
SE1/4 SE1/4 SEC.6 T4N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 433001
SPII I ID 479242

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd) pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC Table 915-1 Residential Screening Levels			18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
SS-01 @ 4' (40.333559 / -104.364103)	02/10/21	4	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118
SS-02 @ 3.5' (40.333538 / -104.364090)	02/10/21	3.5	0.00290	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	0.00217	<0.00120	<0.00120	<0.00120
SS-03 @ 3.5' (40.333518 / -104.364103)	02/10/21	3.5	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124	<0.00124
SS-04 @ 4' (40.333538 / -104.364117)	02/10/21	4	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125
SS-05 @ 4.5' (40.333538 / -104.364102)	02/10/21	4.5	0.00799	0.00218	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	0.00218	<0.00120	<0.00120	<0.00120
SS-06 @ 6' (40.333541 / -104.364085)	03/01/21	6	0.00216	<0.00119	<0.00119	<0.00119	<0.00119	<0.00119	<0.00119	<0.00119	<0.00119	<0.00119	<0.00119	<0.00119	<0.00119	<0.00119	<0.00119
SS-07 @ 8' (40.333534 / -104.364103)	03/01/21	8	0.00392	0.00214	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118
SS-08 @ 8.5' (40.333535 / -104.364070)	03/30/21	8.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-09 @ 10.5' (40.333537 / -104.364094)	03/30/21	10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-10 @ 8' (40.335559 / -104.364094)	03/30/21	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-11 @ 8.5' (40.335538 / -104.364112)	03/30/21	8.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-12 @ 9' (40.335519 / -104.364096)	03/30/21	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

COGCC = Colorado Oil and Gas Conservation Commission
mg/kg = milligrams per kilogram
NA - Not Analyzed
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.
Note: Values presented in **BOLD** contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits



ATTACHMENT A

Photo Log

State Seventy Holes T-6

Location ID 433001

Spill ID 479242

Release Assessment

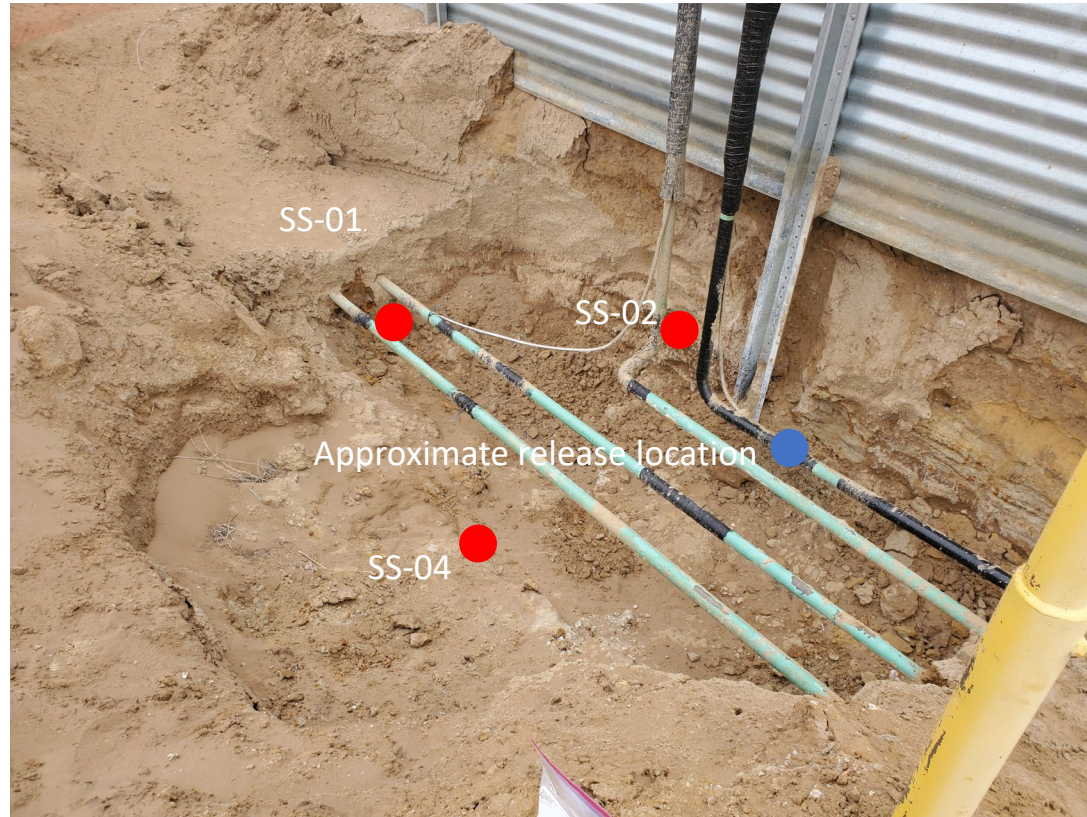
February & March 2021



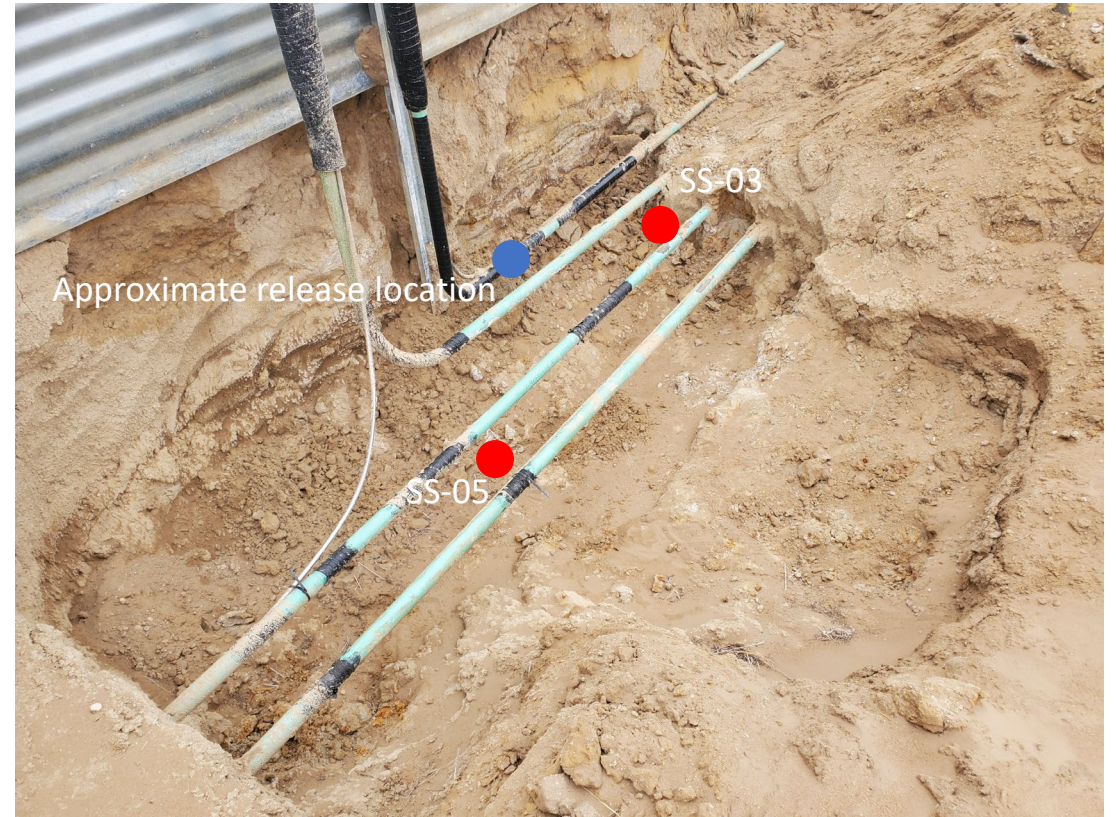
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8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



Excavation / Sampling – 02/10/21

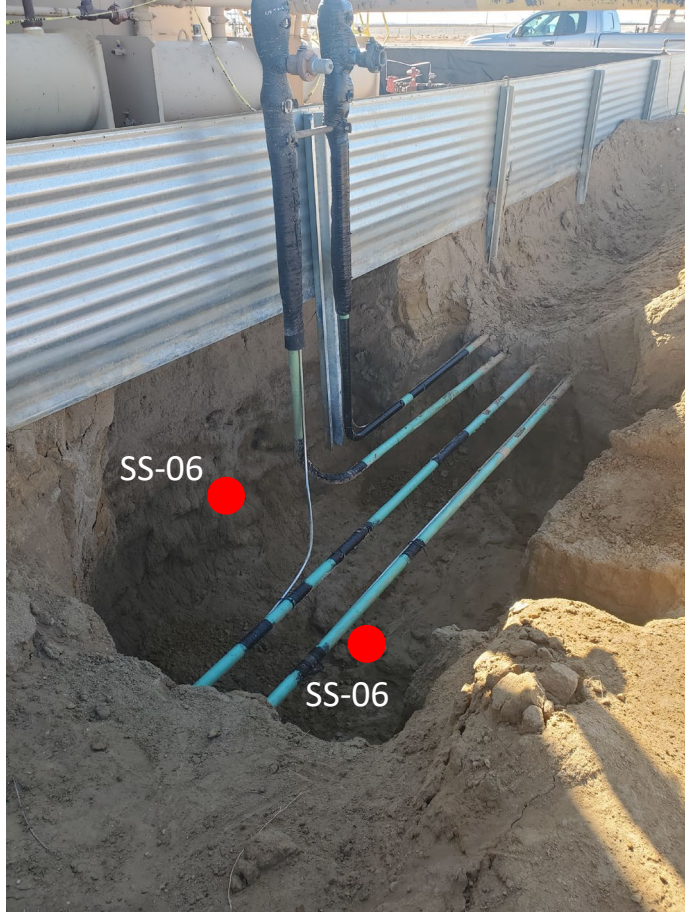


Looking northeast
Hydrovac-excavation adjacent to release location – 12'x7'x4.5'
No petroleum hydrocarbon staining or odor observed
Confirmation samples collected:
SS-01@4' – 6.9 ppm-v
SS-02@3.5' – 6.0 ppm-v
SS-04@4' – 4.2 ppm-v



Looking southeast
Hydrovac-excavation adjacent to release location – 12'x7'x4.5'
No petroleum hydrocarbon staining or odor observed
Confirmation samples collected:
SS-03@3.5' – 3.9 ppm-v
SS-05@4.5' – 21.7 ppm-v

Over-Excavation / Sampling – 03/01/21



Looking southeast

Hydrovac-excavation adjacent to release location – 12'x9.5'x8'

No petroleum hydrocarbon staining or odor observed

Confirmation samples collected:

SS-06@6' – 8.3 ppm-v

SS-07@8' – 6.2 ppm-v

Over-Excavation / Sampling – 03/30/21



Looking northeast

Hydrovac-excavation adjacent to release location – 12'x11'x10.5'

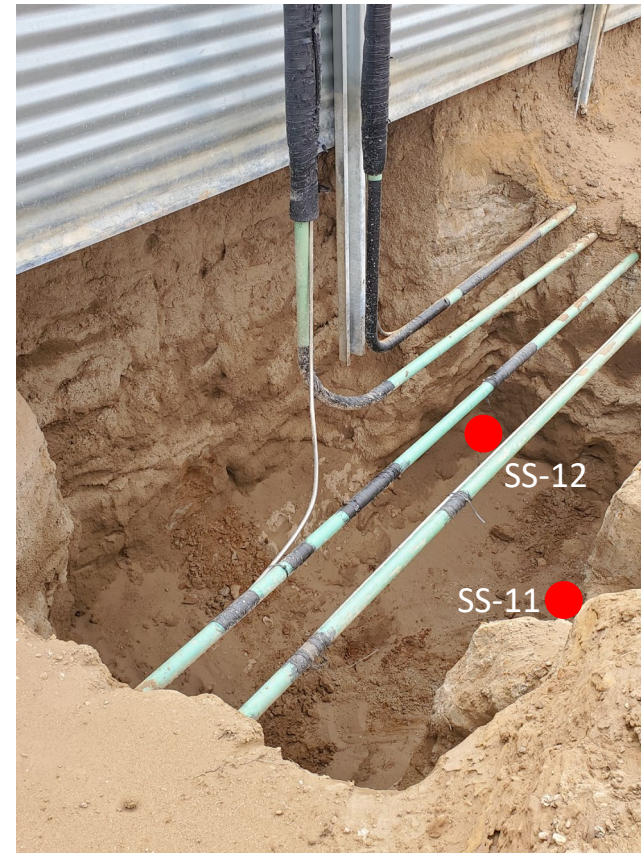
No petroleum hydrocarbon staining or odor observed

Confirmation samples collected:

SS-08@8.5' – 0.0 ppm-v

SS-09@10.5' – 0.1 ppm-v

SS-10@8' – 0.0 ppm-v



Looking southeast

Hydrovac-excavation adjacent to release location – 12'x11'x10.5'

No petroleum hydrocarbon staining or odor observed

Confirmation samples collected:

SS-11@8.5' – 0.0 ppm-v

SS-12@9' – 0.0 ppm-v



ATTACHMENT B

Laboratory Analytical Reports



February 17, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - State Seventy Holes T-6 Pad

Project Number - [none]

Attached are your analytical results for State Seventy Holes T-6 Pad received by Origins Laboratory, Inc. February 10, 2021. This project is associated with Origins project number Y102200-01.

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@4'	Y102200-01	Soil	February 10, 2021 13:50	02/10/2021 15:53
SS-02@3.5'	Y102200-02	Soil	February 10, 2021 13:52	02/10/2021 15:53
SS-03@3.5'	Y102200-03	Soil	February 10, 2021 13:54	02/10/2021 15:53
SS-04@4'	Y102200-04	Soil	February 10, 2021 13:56	02/10/2021 15:53
SS-05@4.5'	Y102200-05	Soil	February 10, 2021 14:00	02/10/2021 15:53

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y102200

Client: Eagle

Client Project ID: State Seventy Holes T-6 Pad

Checklist Completed by: jm

Date/time completed: 2-10-21

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

Airbill #: N/A

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

Cooler Number/Temperature: 1, 3.1 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T003

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)				
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<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 ₂ -NaOH)			<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.

Reviewed by (Project Manager) jm

2-11-21
Date/Time Reviewed

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-01@4'
2/10/2021 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y102200-01 (Soil)

Boron (Sorbitol)

Boron	0.1		mg/L	1	[none]	02/12/2021	02/16/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1B1003	02/10/2021	02/11/2021	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	78.0 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1B1101	02/11/2021	02/11/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND	0.00400	"	"	"	"	"	Ua
o-Xylene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.249	0.200	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-01@4'

2/10/2021 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y102200-01 (Soil)

GBTEX+TMBs

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			B1B11 01	02/11/2021	02/11/2021	
Surrogate: Toluene-d8	97.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.9 %		70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	8.18			me/L	1	[none]	02/12/2021	02/16/2021	
Magnesium	2.77			"	"	"	"	"	
Sodium	4.53			"	"	"	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00118	0.00356	mg/kg dry	1	2093182	02/16/2021	02/16/2021	U
2-Methylnaphthalene	ND	0.00118	0.00356	"	"	"	"	"	U
Acenaphthene	ND	0.00118	0.00356	"	"	"	"	"	U
Anthracene	ND	0.00118	0.00356	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00118	0.00356	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00118	0.00356	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00118	0.00356	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00118	0.00356	"	"	"	"	"	U
Chrysene	ND	0.00118	0.00356	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00118	0.00356	"	"	"	"	"	U

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-01@4'

2/10/2021 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y102200-01 (Soil)

PAH by EPA 8270D SIM

Fluoranthene	ND	0.00118	0.00356	mg/kg dry	1	2093182	02/16/2021	02/16/2021	U
Fluorene	ND	0.00118	0.00356	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00118	0.00356	"	"	"	"	"	U
Naphthalene	ND	0.00118	0.00356	"	"	"	"	"	U
Pyrene	ND	0.00118	0.00356	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 90 % 25-121 " " "

pH in Soil by EPA 9045D

pH	7.18			pH Units	1	B1B1210	02/12/2021	02/12/2021	
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SAR by 20B Saturated Paste

SAR	1.94				1	[none]	02/12/2021	02/16/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.80		0.00500	mmhos/cm	1	B1B1211	02/12/2021	02/12/2021	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-02@3.5'

2/10/2021 1:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y102200-02 (Soil)

Boron (Sorbitol)

Boron	3.5		mg/L	1	[none]	02/12/2021	02/16/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1B1003	02/10/2021	02/11/2021	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	67.7 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1B1101	02/11/2021	02/11/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND	0.00400	"	"	"	"	"	Ua
o-Xylene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-02@3.5'

2/10/2021 1:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y102200-02 (Soil)

GBTEX+TMBs

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			B1B11 01	02/11/2021	02/11/2021	
Surrogate: Toluene-d8	97.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %		70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	6.90			me/L	1	[none]	02/12/2021	02/16/2021	
Magnesium	1.96			"	"	"	"	"	
Sodium	160.73			"	"	"	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	0.00290	0.00120	0.00362	mg/kg dry	1	2093182	02/16/2021	02/16/2021	J
2-Methylnaphthalene	ND	0.00120	0.00362	"	"	"	"	"	U
Acenaphthene	ND	0.00120	0.00362	"	"	"	"	"	U
Anthracene	ND	0.00120	0.00362	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00120	0.00362	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00120	0.00362	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00120	0.00362	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00120	0.00362	"	"	"	"	"	U
Chrysene	ND	0.00120	0.00362	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00120	0.00362	"	"	"	"	"	U
Fluoranthene	ND	0.00120	0.00362	"	"	"	"	"	U

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-02@3.5'

2/10/2021 1:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y102200-02 (Soil)

PAH by EPA 8270D SIM

Fluorene	0.00217	0.00120	0.00362	mg/kg dry	1	2093182	02/16/2021	02/16/2021	J
Indeno(1,2,3-cd)pyrene	ND	0.00120	0.00362	"	"	"	"	"	U
Naphthalene	ND	0.00120	0.00362	"	"	"	"	"	U
Pyrene	ND	0.00120	0.00362	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 96 % 25-121 " " "

pH in Soil by EPA 9045D

pH	7.14		pH Units	1	B1B1210	02/12/2021	02/12/2021
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SAR by 20B Saturated Paste

SAR	76.37			1	[none]	02/12/2021	02/16/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	18.0	0.00500	mmhos/cm	1	B1B1211	02/12/2021	02/12/2021
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-03@3.5'

2/10/2021 1:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y102200-03 (Soil)

Boron (Sorbitol)

Boron	0.3		mg/L	1	[none]	02/12/2021	02/16/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1B1003	02/10/2021	02/11/2021	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	73.9 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1B1101	02/11/2021	02/11/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND	0.00400	"	"	"	"	"	Ua
o-Xylene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-03@3.5'

2/10/2021 1:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y102200-03 (Soil)

GBTEX+TMBs

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	B1B11 01	02/11/2021	02/11/2021
Surrogate: Toluene-d8	96.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130	"	"	"

Metals (Saturated Paste Prep)

Calcium	18.52	me/L	1	[none]	02/12/2021	02/16/2021
Magnesium	7.26	"	"	"	"	"
Sodium	12.43	"	"	"	"	"

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00124	0.00375	mg/kg dry	1	2093182	02/16/2021	02/16/2021	U
2-Methylnaphthalene	ND	0.00124	0.00375	"	"	"	"	"	U
Acenaphthene	ND	0.00124	0.00375	"	"	"	"	"	U
Anthracene	ND	0.00124	0.00375	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00124	0.00375	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00124	0.00375	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00124	0.00375	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00124	0.00375	"	"	"	"	"	U
Chrysene	ND	0.00124	0.00375	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00124	0.00375	"	"	"	"	"	U

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-03@3.5'

2/10/2021 1:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y102200-03 (Soil)

PAH by EPA 8270D SIM

Fluoranthene	ND	0.00124	0.00375	mg/kg dry	1	2093182	02/16/2021	02/16/2021	U
Fluorene	ND	0.00124	0.00375	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00124	0.00375	"	"	"	"	"	U
Naphthalene	ND	0.00124	0.00375	"	"	"	"	"	U
Pyrene	ND	0.00124	0.00375	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 78 % 25-121 " " "

pH in Soil by EPA 9045D

pH	7.02			pH Units	1	B1B1210	02/12/2021	02/12/2021	
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SAR by 20B Saturated Paste

SAR	3.46				1	[none]	02/12/2021	02/16/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	3.38		0.00500	mmhos/cm	1	B1B1211	02/12/2021	02/12/2021	
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Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-04@4'
2/10/2021 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y102200-04 (Soil)

Boron (Sorbitol)

Boron	0.4		mg/L	1	[none]	02/12/2021	02/16/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1B1003	02/10/2021	02/11/2021	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	64.3 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1B1101	02/11/2021	02/11/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND	0.00400	"	"	"	"	"	Ua
o-Xylene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-04@4'

2/10/2021 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y102200-04 (Soil)

GBTEX+TMBs

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B1B11 01	02/11/2021	02/11/2021	
Surrogate: Toluene-d8	96.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.9 %		70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	2.88			me/L	1	[none]	02/12/2021	02/16/2021	
Magnesium	0.83			"	"	"	"	"	
Sodium	5.13			"	"	"	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00125	0.00380	mg/kg dry	1	2093182	02/16/2021	02/16/2021	U
2-Methylnaphthalene	ND	0.00125	0.00380	"	"	"	"	"	U
Acenaphthene	ND	0.00125	0.00380	"	"	"	"	"	U
Anthracene	ND	0.00125	0.00380	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00125	0.00380	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00125	0.00380	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00125	0.00380	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00125	0.00380	"	"	"	"	"	U
Chrysene	ND	0.00125	0.00380	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00125	0.00380	"	"	"	"	"	U

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-04@4'

2/10/2021 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y102200-04 (Soil)

PAH by EPA 8270D SIM

Fluoranthene	ND	0.00125	0.00380	mg/kg dry	1	2093182	02/16/2021	02/16/2021	U
Fluorene	ND	0.00125	0.00380	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00125	0.00380	"	"	"	"	"	U
Naphthalene	ND	0.00125	0.00380	"	"	"	"	"	U
Pyrene	ND	0.00125	0.00380	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 75 % 25-121 " " "

pH in Soil by EPA 9045D

pH	7.51		pH Units	1	B1B1210	02/12/2021	02/12/2021
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SAR by 20B Saturated Paste

SAR	3.77			1	[none]	02/12/2021	02/16/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.02	0.00500	mmhos/cm	1	B1B1211	02/12/2021	02/12/2021
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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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-05@4.5'

2/10/2021 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y102200-05 (Soil)

Boron (Sorbitol)

Boron	3.8		mg/L	1	[none]	02/12/2021	02/16/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1B1003	02/10/2021	02/11/2021	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	65.6 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1B1101	02/11/2021	02/11/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND	0.00400	"	"	"	"	"	Ua
o-Xylene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-05@4.5'

2/10/2021 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y102200-05 (Soil)

GBTEX+TMBs

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	B1B11 01	02/11/2021	02/11/2021
Surrogate: Toluene-d8	96.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.0 %	70-130	"	"	"

Metals (Saturated Paste Prep)

Calcium	10.74	me/L	1	[none]	02/12/2021	02/16/2021
Magnesium	3.10	"	"	"	"	"
Sodium	147.17	"	"	"	"	"

PAH by EPA 8270D SIM

1-Methylnaphthalene	0.00799	0.00120	0.00363	mg/kg dry	1	2093182	02/16/2021	02/16/2021	
2-Methylnaphthalene	0.00218	0.00120	0.00363	"	"	"	"	"	J
Acenaphthene	ND	0.00120	0.00363	"	"	"	"	"	U
Anthracene	ND	0.00120	0.00363	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00120	0.00363	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00120	0.00363	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00120	0.00363	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00120	0.00363	"	"	"	"	"	U
Chrysene	ND	0.00120	0.00363	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00120	0.00363	"	"	"	"	"	U
Fluoranthene	ND	0.00120	0.00363	"	"	"	"	"	U

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-05@4.5'

2/10/2021 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y102200-05 (Soil)

PAH by EPA 8270D SIM

Fluorene	0.00218	0.00120	0.00363	mg/kg dry	1	2093182	02/16/2021	02/16/2021	J
Indeno(1,2,3-cd)pyrene	ND	0.00120	0.00363	"	"	"	"	"	U
Naphthalene	ND	0.00120	0.00363	"	"	"	"	"	U
Pyrene	ND	0.00120	0.00363	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 87 % 25-121 " " "

pH in Soil by EPA 9045D

pH	7.30		pH Units	1	B1B1210	02/12/2021	02/12/2021
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SAR by 20B Saturated Paste

SAR	55.95			1	[none]	02/12/2021	02/16/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	20.6	0.00500	mmhos/cm	1	B1B1211	02/12/2021	02/12/2021
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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1B1003 - EPA 3550B										
Blank (B1B1003-BLK1)					Prepared: 02/10/2021 Analyzed: 02/11/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	15		"	25.0		59.8	50-150			

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1B1003 - EPA 3550B

LCS (B1B1003-BS1)

Prepared: 02/10/2021 Analyzed: 02/11/2021

Diesel (C10-C28)	1090	50.0	mg/kg	1000		109	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.8	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1B1003 - EPA 3550B

Matrix Spike (B1B1003-MS1)		Source: Y102173-01			Prepared: 02/10/2021 Analyzed: 02/11/2021					
Diesel (C10-C28)	1390	50.0	mg/kg	1000	ND	139	70-130			QM-07
Residual Range Organics (C28-C40)	1450	200	"	1000	ND	145	70-130			QM-07
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1B1003 - EPA 3550B

Matrix Spike Dup (B1B1003-MSD1)		Source: Y102173-01			Prepared: 02/10/2021 Analyzed: 02/11/2021					
Diesel (C10-C28)	1100	50.0	mg/kg	1000	ND	110	70-130	23.4	35	
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130	28.3	35	
Surrogate: o-Terphenyl	45		"	50.0		90.8	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1B1101 - EPA 5030 (soil)										
Blank (B1B1101-BLK1)					Prepared: 02/11/2021 Analyzed: 02/11/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
Naphthalene	ND	0.0100	"							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
m,p-Xylene	ND	0.00400	"							Ua
o-Xylene	ND	0.00200	"							Ua
Toluene	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1B1101 - EPA 5030 (soil)										
LCS (B1B1101-BS1)					Prepared: 02/11/2021 Analyzed: 02/11/2021					
1,2,4-Trimethylbenzene	0.0518	0.00200	mg/kg	0.0500		104	70-130			
Naphthalene	0.0486	0.0100	"	0.0500		97.1	70-130			
1,3,5-Trimethylbenzene	0.0520	0.00200	"	0.0500		104	70-130			
Benzene	0.0558	0.00200	"	0.0500		112	70-130			
Ethylbenzene	0.0530	0.00200	"	0.0500		106	70-130			
m,p-Xylene	0.107	0.00400	"	0.100		107	70-130			
o-Xylene	0.0516	0.00200	"	0.0500		103	70-130			
Toluene	0.0525	0.00200	"	0.0500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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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Batch B1B1101 - EPA 5030 (soil)

Matrix Spike (B1B1101-MS1)		Source: Y102200-01			Prepared: 02/11/2021 Analyzed: 02/11/2021					
1,2,4-Trimethylbenzene	0.0479	0.00200	mg/kg	0.0500	ND	95.8	70-130			
Naphthalene	0.0501	0.0100	"	0.0500	ND	100	70-130			
1,3,5-Trimethylbenzene	0.0482	0.00200	"	0.0500	ND	96.5	70-130			
Benzene	0.0524	0.00200	"	0.0500	ND	105	70-130			
Ethylbenzene	0.0478	0.00200	"	0.0500	ND	95.7	70-130			
m,p-Xylene	0.0971	0.00400	"	0.100	ND	97.1	70-130			
o-Xylene	0.0472	0.00200	"	0.0500	ND	94.5	70-130			
Toluene	0.0488	0.00200	"	0.0500	ND	97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1B1101 - EPA 5030 (soil)										
Matrix Spike Dup (B1B1101-MSD1)		Source: Y102200-01			Prepared: 02/11/2021 Analyzed: 02/11/2021					
1,2,4-Trimethylbenzene	0.0502	0.00200	mg/kg	0.0500	ND	100	70-130	4.57	20	
Naphthalene	0.0528	0.0100	"	0.0500	ND	106	70-130	5.21	20	
1,3,5-Trimethylbenzene	0.0524	0.00200	"	0.0500	ND	105	70-130	8.34	20	
Benzene	0.0564	0.00200	"	0.0500	ND	113	70-130	7.28	20	
Ethylbenzene	0.0527	0.00200	"	0.0500	ND	105	70-130	9.74	20	
m,p-Xylene	0.106	0.00400	"	0.100	ND	106	70-130	8.63	20	
o-Xylene	0.0517	0.00200	"	0.0500	ND	103	70-130	9.05	20	
Toluene	0.0533	0.00200	"	0.0500	ND	107	70-130	8.82	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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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Classical Chemistry Parameters - 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 B1B1210 - NO PREP

Duplicate (B1B1210-DUP1)

Source: Y102143-02

Prepared: 02/12/2021 Analyzed: 02/12/2021

pH	7.30		pH Units	7.65		4.68	25
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Batch B1B1211 - NO PREP

Blank (B1B1211-BLK1)

Prepared: 02/12/2021 Analyzed: 02/12/2021

Specific Conductance (EC)	0.00390	0.00500	mmhos/cm
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Duplicate (B1B1211-DUP1)

Source: Y102143-02

Prepared: 02/12/2021 Analyzed: 02/12/2021

Specific Conductance (EC)	1.00	0.00500	mmhos/cm	0.932		7.54	25
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2093182 - SW846 3541

BLANK (1204755141-BLK)

Prepared: 02/16/2021 Analyzed: 02/16/2021

Acenaphthene	ND	0.00330	mg/kg				-			U
Dibenzo(a,h)anthracene	ND	0.00330	"				-			U
Chrysene	ND	0.00330	"				-			U
Benzo(k)fluoranthene	ND	0.00330	"				-			U
Benzo(b)fluoranthene	ND	0.00330	"				-			U
Benzo(a)pyrene	ND	0.00330	"				-			U
Anthracene	ND	0.00330	"				-			U
2-Methylnaphthalene	ND	0.00330	"				-			U
1-Methylnaphthalene	ND	0.00330	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00330	"				-			U
Benzo(a)anthracene	ND	0.00330	"				-			U
Fluoranthene	ND	0.00330	"				-			U
Naphthalene	ND	0.00330	"				-			U
Pyrene	ND	0.00330	"				-			U
Fluorene	ND	0.00330	"				-			U

Surrogate: 5-alpha-Androstane

0.157

"

0.165

95

25-121

LCS (1204755142-BKS)

Prepared: 02/16/2021 Analyzed: 02/16/2021

Benzo(k)fluoranthene	0.279	0.00333	mg/kg	0.333		84	39-119
Pyrene	0.286	0.00333	"	0.333		86	42-114
Naphthalene	0.280	0.00333	"	0.333		84	52-106
Indeno(1,2,3-cd)pyrene	0.301	0.00333	"	0.333		90	40-132
Fluorene	0.299	0.00333	"	0.333		90	42-113
Fluoranthene	0.293	0.00333	"	0.333		88	43-116
Chrysene	0.302	0.00333	"	0.333		91	53-108
1-Methylnaphthalene	0.280	0.00333	"	0.333		84	50-109
Dibenzo(a,h)anthracene	0.305	0.00333	"	0.333		92	40-137

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2093182 - SW846 3541

LCS (1204755142-BKS)

Prepared: 02/16/2021 Analyzed: 02/16/2021

2-Methylnaphthalene	0.285	0.00333	mg/kg	0.333		86	50-109			
Benzo(b)fluoranthene	0.293	0.00333	"	0.333		88	42-119			
Acenaphthene	0.284	0.00333	"	0.333		86	48-107			
Anthracene	0.299	0.00333	"	0.333		90	49-113			
Benzo(a)anthracene	0.266	0.00333	"	0.333		80	51-118			
Benzo(a)pyrene	0.306	0.00333	"	0.333		92	42-123			
Surrogate: 5-alpha-Androstane	0.158		"	0.166		95	25-121			

LCSD (1204755143-BKSD)

Prepared: 02/16/2021 Analyzed: 02/16/2021

Benzo(k)fluoranthene	0.243	0.00331	mg/kg	0.331		73	39-119	14	30	
Indeno(1,2,3-cd)pyrene	0.269	0.00331	"	0.331		81	40-132	11	30	
Fluorene	0.258	0.00331	"	0.331		78	42-113	15	30	
Fluoranthene	0.261	0.00331	"	0.331		79	43-116	12	30	
Dibenzo(a,h)anthracene	0.278	0.00331	"	0.331		84	40-137	9	30	
Chrysene	0.263	0.00331	"	0.331		79	53-108	14	30	
Naphthalene	0.248	0.00331	"	0.331		75	52-106	12	30	
1-Methylnaphthalene	0.250	0.00331	"	0.331		75	50-109	11	30	
Benzo(a)pyrene	0.268	0.00331	"	0.331		81	42-123	13	30	
Benzo(a)anthracene	0.230	0.00331	"	0.331		69	51-118	15	30	
Anthracene	0.259	0.00331	"	0.331		78	49-113	14	30	
Acenaphthene	0.244	0.00331	"	0.331		74	48-107	15	30	
2-Methylnaphthalene	0.254	0.00331	"	0.331		77	50-109	12	30	
Benzo(b)fluoranthene	0.254	0.00331	"	0.331		77	42-119	14	30	
Pyrene	0.232	0.00331	"	0.331		70	42-114	21	30	
Surrogate: 5-alpha-Androstane	0.137		"	0.166		82	25-121			

MS (1204755144 S)

Source: Y102200-01

Prepared: 02/16/2021 Analyzed: 02/16/2021

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2093182 - SW846 3541

MS (1204755144 S)		Source: Y102200-01			Prepared: 02/16/2021 Analyzed: 02/16/2021					
Chrysene	0.253	0.00356	mg/kg dry	0.356	<0.00118	71	31-119			
Fluoranthene	0.242	0.00356	"	0.356	<0.00118	68	21-122			
Indeno(1,2,3-cd)pyrene	0.266	0.00356	"	0.356	<0.00118	75	14-132			
Benzo(k)fluoranthene	0.232	0.00356	"	0.356	<0.00118	65	26-130			
Pyrene	0.231	0.00356	"	0.356	<0.00118	65	19-139			
Dibenzo(a,h)anthracene	0.272	0.00356	"	0.356	<0.00118	76	16-139			
Naphthalene	0.225	0.00356	"	0.356	<0.00118	63	29-122			
1-Methylnaphthalene	0.226	0.00356	"	0.356	<0.00118	63	30-129			
Benzo(a)pyrene	0.258	0.00356	"	0.356	<0.00118	72	24-129			
Benzo(a)anthracene	0.221	0.00356	"	0.356	<0.00118	62	31-124			
Anthracene	0.244	0.00356	"	0.356	<0.00118	69	29-127			
Acenaphthene	0.226	0.00356	"	0.356	<0.00118	63	29-118			
2-Methylnaphthalene	0.229	0.00356	"	0.356	<0.00118	64	23-124			
Fluorene	0.238	0.00356	"	0.356	<0.00118	67	26-123			
Benzo(b)fluoranthene	0.240	0.00356	"	0.356	<0.00118	67	22-130			
Surrogate: 5-alpha-Androstane	0.125		"	0.178	0.161	70	25-121			

MSD (1204755145 SD)		Source: Y102200-01			Prepared: 02/16/2021 Analyzed: 02/16/2021					
Chrysene	0.324	0.00359	mg/kg dry	0.359	<0.00118	90	31-119	25	30	
Dibenzo(a,h)anthracene	0.320	0.00359	"	0.359	<0.00118	89	16-139	16	30	
Fluoranthene	0.313	0.00359	"	0.359	<0.00118	87	21-122	26	30	
Fluorene	0.319	0.00359	"	0.359	<0.00118	89	26-123	29	30	
Benzo(k)fluoranthene	0.305	0.00359	"	0.359	<0.00118	85	26-130	27	30	
Naphthalene	0.303	0.00359	"	0.359	<0.00118	84	29-122	30	30	
Indeno(1,2,3-cd)pyrene	0.314	0.00359	"	0.359	<0.00118	88	14-132	16	30	
Benzo(b)fluoranthene	0.317	0.00359	"	0.359	<0.00118	89	22-130	28	30	
Benzo(a)pyrene	0.330	0.00359	"	0.359	<0.00118	92	24-129	25	30	

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2093182 - SW846 3541										
MSD (1204755145 SD)		Source: Y102200-01			Prepared: 02/16/2021 Analyzed: 02/16/2021					
Benzo(a)anthracene	0.282	0.00359	mg/kg dry	0.359	<0.00118	79	31-124	24	30	
Acenaphthene	0.305	0.00359	"	0.359	<0.00118	85	29-118	30	30	
2-Methylnaphthalene	0.310	0.00359	"	0.359	<0.00118	86	23-124	30	30	
1-Methylnaphthalene	0.306	0.00359	"	0.359	<0.00118	85	30-129	30	30	
Pyrene	0.300	0.00359	"	0.359	<0.00118	83	19-139	26	30	
Anthracene	0.319	0.00359	"	0.359	<0.00118	89	29-127	26	30	
Surrogate: 5-alpha-Androstane	0.161		"	0.179	0.161	90	25-121			

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Greater than the detection limit but less than the reporting limit

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.



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.



March 12, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - State Seventy Holes T-6 Pad

Project Number - [none]

Attached are your analytical results for State Seventy Holes T-6 Pad received by Origins Laboratory, Inc. March 01, 2021. This project is associated with Origins project number Y103014-01.

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: State Seventy Holes T-6 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-06@6'	Y103014-01	Soil	March 1, 2021 9:40	03/01/2021 13:44
SS-07@8'	Y103014-02	Soil	March 1, 2021 9:45	03/01/2021 13:44

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.

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

ORIGINS

LABORATORY, INC

www.originslaboratory.com

page / of

Client: Encke Env Consulting, Inc.
Address: 800 W. 14th Ave
Wheat Ridge, CO 80033
Telephone Number: (303) 933-0179
Email Address: mcc3c@encke-enviro.com

Project Manager: Martin Eckert III
Project Name: State Twenty Mile F-G Pad
Project Number: -
Samples Collected By: A. Newberry

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	Other	Groundwater	Soil	Air Surrogate Concentrator #	Other		
S5-06 e 6'	3/1/21	0940	3 X					X		+ + +	GC/ECLX, TPAE DELTA/CED PAMS BTEX/B EC - 9052 SIO - 2052 MIL - 10452 KOH = BTEX	EL-SPEL pH = Standard
S5-07 e 8'	3/1/21	0945	3 X					X		+ + +		Pack Page 2
												3 IN
												4
												5
												6
												7
												8
												9
												10

Relinquished by:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	3/1/21	1344	<u>Jmwill</u>	3-1-21	1344	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

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

B-Bill to Luke Kelly

Temp Received- 11.8

Date Results Needed @ Bruce Creek

Origins Laboratory, Inc.

Men

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y102014

Client: Eagle

Client Project ID: State Seventy Holes T-6 Pad

Checklist Completed by: jm

Shipped Via: HTD

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

Date/time completed: 3-21

Airbill #: n/a

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

Cooler Number/Temperature: 1 / 11.8 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: T003

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"/>		Same day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" 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 checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<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 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.

Reviewed by (Project Manager) gp

Date/Time Reviewed 3/21/21

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-06@6'
3/1/2021 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y103014-01 (Soil)

Boron (Sorbitol)

Boron	2.6			mg/L	1	[none]	03/10/2021	03/12/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1C0104	03/01/2021	03/01/2021	Ua
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	66.8 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1C0103	"	03/02/2021	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	98.3 %		70-130			"	"	"	
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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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-06@6'

3/1/2021 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y103014-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.7 %	70-130	B1C01 03	03/01/2021	03/02/2021
Surrogate: 4-Bromofluorobenzene	89.0 %	70-130	"	"	"

Metals (Saturated Paste Prep)

Calcium	5.55	me/L	1	[none]	03/10/2021	03/12/2021
Magnesium	1.62	"	"	"	"	"
Sodium	86.21	"	"	"	"	"

PAH by EPA 8270D SIM

1-Methylnaphthalene	0.00216	0.00119	0.00359	mg/kg dry	1	2098122	03/03/2021	03/03/2021	J
2-Methylnaphthalene	ND	0.00119	0.00359	"	"	"	"	"	U
Acenaphthene	ND	0.00119	0.00359	"	"	"	"	"	U
Anthracene	ND	0.00119	0.00359	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00119	0.00359	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00119	0.00359	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00119	0.00359	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00119	0.00359	"	"	"	"	"	U
Chrysene	ND	0.00119	0.00359	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00119	0.00359	"	"	"	"	"	U
Fluoranthene	ND	0.00119	0.00359	"	"	"	"	"	U

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-06@6'

3/1/2021 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y103014-01 (Soil)

PAH by EPA 8270D SIM

Fluorene	ND	0.00119	0.00359	mg/kg dry	1	2098122	03/03/2021	03/03/2021	U
Indeno(1,2,3-cd)pyrene	ND	0.00119	0.00359	"	"	"	"	"	U
Naphthalene	ND	0.00119	0.00359	"	"	"	"	"	U
Pyrene	ND	0.00119	0.00359	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 52 % 25-121 " " "

pH in Soil by EPA 9045D

pH	7.83			pH Units	1	B1C0206	03/02/2021	03/02/2021	
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SAR by 20B Saturated Paste

SAR	45.53				1	[none]	03/10/2021	03/12/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	13.0		0.00500	mmhos/cm	1	B1C0207	03/02/2021	03/02/2021	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-07@8'

3/1/2021 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y103014-02 (Soil)

Boron (Sorbitol)

Boron	1.7		mg/L	1	[none]	03/03/2021	03/05/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1C0104	03/01/2021	03/01/2021	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	67.9 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1C0103	"	03/02/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-07@8'

3/1/2021 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y103014-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.4 %	70-130	B1C01 03	03/01/2021	03/02/2021
Surrogate: 4-Bromofluorobenzene	89.1 %	70-130	"	"	"

Metals (Saturated Paste Prep)

Calcium	3.22	me/L	1	[none]	03/03/2021	03/05/2021
Magnesium	0.78	"	"	"	"	"
Sodium	56.90	"	"	"	"	"

PAH by EPA 8270D SIM

1-Methylnaphthalene	0.00392	0.00118	0.00357	mg/kg dry	1	2099071	03/05/2021	03/05/2021	
2-Methylnaphthalene	0.00214	0.00118	0.00357	"	"	"	"	"	J
Acenaphthene	ND	0.00118	0.00357	"	"	"	"	"	U
Anthracene	ND	0.00118	0.00357	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00118	0.00357	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00118	0.00357	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00118	0.00357	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00118	0.00357	"	"	"	"	"	U
Chrysene	ND	0.00118	0.00357	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00118	0.00357	"	"	"	"	"	U
Fluoranthene	ND	0.00118	0.00357	"	"	"	"	"	U

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-07@8'

3/1/2021 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y103014-02 (Soil)

PAH by EPA 8270D SIM

Fluorene	ND	0.00118	0.00357	mg/kg dry	1	2099071	03/05/2021	03/05/2021	U
Indeno(1,2,3-cd)pyrene	ND	0.00118	0.00357	"	"	"	"	"	U
Naphthalene	ND	0.00118	0.00357	"	"	"	"	"	U
Pyrene	ND	0.00118	0.00357	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 99 % 25-121 " " "

pH in Soil by EPA 9045D

pH	7.89		pH Units	1	B1C0206	03/02/2021	03/02/2021
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SAR by 20B Saturated Paste

SAR	40.23			1	[none]	03/03/2021	03/05/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	5.90	0.00500	mmhos/cm	1	B1C0207	03/02/2021	03/02/2021
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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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1C0103 - EPA 5030 (soil)										
Blank (B1C0103-BLK1)					Prepared: 03/01/2021 Analyzed: 03/01/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
Naphthalene	ND	0.0100	"							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.8	70-130			

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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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Batch B1C0103 - EPA 5030 (soil)

LCS (B1C0103-BS1)

Prepared: 03/01/2021 Analyzed: 03/01/2021

1,2,4-Trimethylbenzene	0.0477	0.00200	mg/kg	0.0500		95.4	70-130			
Naphthalene	0.0515	0.0100	"	0.0500		103	70-130			
1,3,5-Trimethylbenzene	0.0480	0.00200	"	0.0500		96.0	70-130			
Benzene	0.0480	0.00200	"	0.0500		96.0	70-130			
Ethylbenzene	0.0457	0.00200	"	0.0500		91.3	70-130			
m,p-Xylene	0.0928	0.00400	"	0.100		92.8	70-130			
o-Xylene	0.0446	0.00200	"	0.0500		89.2	70-130			
Toluene	0.0484	0.00200	"	0.0500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.1	70-130			

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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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Batch B1C0103 - EPA 5030 (soil)

Matrix Spike (B1C0103-MS1)		Source: Y102508-02			Prepared: 03/01/2021 Analyzed: 03/01/2021					
1,2,4-Trimethylbenzene	0.0520	0.00200	mg/kg	0.0500	ND	104	70-130			
Naphthalene	0.0502	0.0100	"	0.0500	ND	100	70-130			
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500	ND	92.8	70-130			
Benzene	0.0454	0.00200	"	0.0500	ND	90.8	70-130			
Ethylbenzene	0.0469	0.00200	"	0.0500	ND	93.8	70-130			
m,p-Xylene	0.0996	0.00400	"	0.100	ND	99.6	70-130			
o-Xylene	0.0475	0.00200	"	0.0500	ND	95.0	70-130			
Toluene	0.0538	0.00200	"	0.0500	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.5	70-130			

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Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1C0103 - EPA 5030 (soil)										
Matrix Spike Dup (B1C0103-MSD1)		Source: Y102508-02			Prepared: 03/01/2021 Analyzed: 03/01/2021					
1,2,4-Trimethylbenzene	0.0513	0.00200	mg/kg	0.0500	ND	103	70-130	1.28	20	
Naphthalene	0.0521	0.0100	"	0.0500	ND	104	70-130	3.71	20	
1,3,5-Trimethylbenzene	0.0472	0.00200	"	0.0500	ND	94.4	70-130	1.79	20	
Benzene	0.0470	0.00200	"	0.0500	ND	94.0	70-130	3.46	20	
Ethylbenzene	0.0466	0.00200	"	0.0500	ND	93.1	70-130	0.770	20	
m,p-Xylene	0.0976	0.00400	"	0.100	ND	97.6	70-130	2.01	20	
o-Xylene	0.0469	0.00200	"	0.0500	ND	93.7	70-130	1.40	20	
Toluene	0.0517	0.00200	"	0.0500	ND	103	70-130	4.02	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.6	70-130			

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Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1C0104 - EPA 3550B										
Blank (B1C0104-BLK1)					Prepared: 03/01/2021 Analyzed: 03/01/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	15		"	25.0		61.3	50-150			

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Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1C0104 - EPA 3550B

LCS (B1C0104-BS1)

Prepared: 03/01/2021 Analyzed: 03/01/2021

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	46		"	50.0		92.3	50-150			

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Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1C0104 - EPA 3550B

Matrix Spike (B1C0104-MS1)		Source: Y102508-02			Prepared: 03/01/2021 Analyzed: 03/01/2021					
Diesel (C10-C28)	937	50.0	mg/kg	1000	ND	93.7	70-130			
Residual Range Organics (C28-C40)	930	200	"	1000	ND	93.0	70-130			
Surrogate: o-Terphenyl	36		"	50.0		73.0	50-150			

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Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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 B1C0104 - EPA 3550B

Matrix Spike Dup (B1C0104-MSD1)		Source: Y102508-02			Prepared: 03/01/2021 Analyzed: 03/01/2021					
Diesel (C10-C28)	1160	50.0	mg/kg	1000	ND	116	70-130	20.8	35	
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130	21.2	35	
Surrogate: o-Terphenyl	49		"	50.0		97.3	50-150			

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Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

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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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 B1C0206 - NO PREP

Duplicate (B1C0206-DUP1)

Source: Y103004-01

Prepared: 03/02/2021 Analyzed: 03/02/2021

pH	7.07	pH Units	7.36	4.02	25
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Batch B1C0207 - NO PREP

Blank (B1C0207-BLK1)

Prepared: 03/02/2021 Analyzed: 03/02/2021

Specific Conductance (EC)	0.00380	0.00500	mmhos/cm
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Duplicate (B1C0207-DUP1)

Source: Y103004-01

Prepared: 03/02/2021 Analyzed: 03/02/2021

Specific Conductance (EC)	8.33	0.00500	mmhos/cm	9.01	7.84	25
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Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2099071 - SW846 3541

BLANK (1204765819-BLK)

Prepared: 03/05/2021 Analyzed: 03/05/2021

Dibenzo(a,h)anthracene	ND	0.00331	mg/kg				-			U
Chrysene	ND	0.00331	"				-			U
1-Methylnaphthalene	ND	0.00331	"				-			U
2-Methylnaphthalene	ND	0.00331	"				-			U
Acenaphthene	ND	0.00331	"				-			U
Anthracene	ND	0.00331	"				-			U
Benzo(a)anthracene	ND	0.00331	"				-			U
Benzo(a)pyrene	ND	0.00331	"				-			U
Benzo(k)fluoranthene	ND	0.00331	"				-			U
Fluorene	ND	0.00331	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00331	"				-			U
Naphthalene	ND	0.00331	"				-			U
Pyrene	ND	0.00331	"				-			U
Benzo(b)fluoranthene	ND	0.00331	"				-			U
Fluoranthene	ND	0.00331	"				-			U

Surrogate: 5-alpha-Androstane

0.147

"

0.166

89

25-121

LCS (1204765820-BKS)

Prepared: 03/05/2021 Analyzed: 03/05/2021

Fluoranthene	0.197	0.00331	mg/kg	0.331		60	43-116
Pyrene	0.341	0.00331	"	0.331		103	42-114
Naphthalene	0.257	0.00331	"	0.331		78	52-106
Fluorene	0.261	0.00331	"	0.331		79	42-113
Dibenzo(a,h)anthracene	0.299	0.00331	"	0.331		90	40-137
Chrysene	0.291	0.00331	"	0.331		88	53-108
Benzo(k)fluoranthene	0.271	0.00331	"	0.331		82	39-119
Benzo(b)fluoranthene	0.287	0.00331	"	0.331		87	42-119
1-Methylnaphthalene	0.251	0.00331	"	0.331		76	50-109

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2099071 - SW846 3541

LCS (1204765820-BKS)

Prepared: 03/05/2021 Analyzed: 03/05/2021

Benzo(a)anthracene	0.253	0.00331	mg/kg	0.331		76	51-118			
Anthracene	0.220	0.00331	"	0.331		66	49-113			
Acenaphthene	0.256	0.00331	"	0.331		77	48-107			
2-Methylnaphthalene	0.252	0.00331	"	0.331		76	50-109			
Indeno(1,2,3-cd)pyrene	0.286	0.00331	"	0.331		86	40-132			
Benzo(a)pyrene	0.292	0.00331	"	0.331		88	42-123			
Surrogate: 5-alpha-Androstane	0.131		"	0.165		79	25-121			

LCSD (1204765821-BKSD)

Prepared: 03/05/2021 Analyzed: 03/05/2021

Benzo(k)fluoranthene	0.294	0.00332	mg/kg	0.332		89	39-119	8	30	
Chrysene	0.317	0.00332	"	0.332		96	53-108	9	30	
Dibenzo(a,h)anthracene	0.321	0.00332	"	0.332		97	40-137	7	30	
Fluoranthene	0.223	0.00332	"	0.332		67	43-116	12	30	
Benzo(b)fluoranthene	0.308	0.00332	"	0.332		93	42-119	7	30	
Indeno(1,2,3-cd)pyrene	0.312	0.00332	"	0.332		94	40-132	9	30	
Naphthalene	0.279	0.00332	"	0.332		84	52-106	8	30	
Fluorene	0.286	0.00332	"	0.332		86	42-113	9	30	
Benzo(a)pyrene	0.319	0.00332	"	0.332		96	42-123	9	30	
Benzo(a)anthracene	0.276	0.00332	"	0.332		83	51-118	9	30	
Acenaphthene	0.282	0.00332	"	0.332		85	48-107	10	30	
2-Methylnaphthalene	0.276	0.00332	"	0.332		83	50-109	9	30	
1-Methylnaphthalene	0.270	0.00332	"	0.332		82	50-109	8	30	
Pyrene	0.330	0.00332	"	0.332		99	42-114	3	30	
Anthracene	0.240	0.00332	"	0.332		72	49-113	9	30	
Surrogate: 5-alpha-Androstane	0.139		"	0.166		84	25-121			

MS (1204767326 S)

Source: 536487001

Prepared: 03/05/2021 Analyzed: 03/05/2021

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2099071 - SW846 3541

MS (1204767326 S)		Source: 536487001			Prepared: 03/05/2021 Analyzed: 03/05/2021					
Benzo(b)fluoranthene	0.199	0.00335	mg/kg dry	0.335	<0.00110	60	22-130			
Chrysene	0.202	0.00335	"	0.335	<0.00110	60	31-119			
Benzo(k)fluoranthene	0.194	0.00335	"	0.335	<0.00110	58	26-130			
Anthracene	0.149	0.00335	"	0.335	<0.00110	45	29-127			
Dibenzo(a,h)anthracene	0.205	0.00335	"	0.335	<0.00110	61	16-139			
2-Methylnaphthalene	0.164	0.00335	"	0.335	<0.00110	49	23-124			
Acenaphthene	0.173	0.00335	"	0.335	<0.00110	52	29-118			
Benzo(a)anthracene	0.174	0.00335	"	0.335	<0.00110	52	31-124			
1-Methylnaphthalene	0.163	0.00335	"	0.335	<0.00110	49	30-129			
Fluorene	0.175	0.00335	"	0.335	<0.00110	52	26-123			
Benzo(a)pyrene	0.203	0.00335	"	0.335	<0.00110	61	24-129			
Fluoranthene	0.135	0.00335	"	0.335	<0.00110	40	21-122			
Pyrene	0.227	0.00335	"	0.335	<0.00110	68	19-139			
Indeno(1,2,3-cd)pyrene	0.196	0.00335	"	0.335	<0.00110	59	14-132			
Naphthalene	0.165	0.00335	"	0.335	0.00167	49	29-122			
Surrogate: 5-alpha-Androstane	0.0907		"	0.167	0.148	54	25-121			

MSD (1204767327 SD)		Source: 536487001			Prepared: 03/05/2021 Analyzed: 03/05/2021					
Pyrene	0.321	0.00336	mg/kg dry	0.336	<0.00111	96	19-139	34	30	
Dibenzo(a,h)anthracene	0.314	0.00336	"	0.336	<0.00111	93	16-139	42	30	
Fluorene	0.280	0.00336	"	0.336	<0.00111	83	26-123	46	30	
1-Methylnaphthalene	0.257	0.00336	"	0.336	<0.00111	76	30-129	45	30	
Fluoranthene	0.225	0.00336	"	0.336	<0.00111	67	21-122	50	30	
Naphthalene	0.261	0.00336	"	0.336	0.00167	77	29-122	45	30	
Chrysene	0.313	0.00336	"	0.336	<0.00111	93	31-119	43	30	
Benzo(k)fluoranthene	0.288	0.00336	"	0.336	<0.00111	86	26-130	39	30	
Benzo(b)fluoranthene	0.305	0.00336	"	0.336	<0.00111	91	22-130	42	30	

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Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2099071 - SW846 3541										
MSD (1204767327 SD)		Source: 536487001			Prepared: 03/05/2021 Analyzed: 03/05/2021					
Benzo(a)pyrene	0.315	0.00336	mg/kg dry	0.336	<0.00111	94	24-129	43	30	
Benzo(a)anthracene	0.271	0.00336	"	0.336	<0.00111	81	31-124	44	30	
Anthracene	0.237	0.00336	"	0.336	<0.00111	71	29-127	45	30	
Acenaphthene	0.274	0.00336	"	0.336	<0.00111	81	29-118	45	30	
2-Methylnaphthalene	0.260	0.00336	"	0.336	<0.00111	77	23-124	45	30	
Indeno(1,2,3-cd)pyrene	0.303	0.00336	"	0.336	<0.00111	90	14-132	43	30	
Surrogate: 5-alpha-Androstane	0.139		"	0.168	0.148	83	25-121			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2098122 - SW846 3541

BLANK (1204763936-BLK)

Prepared: 03/03/2021 Analyzed: 03/03/2021

2-Methylnaphthalene	ND	0.00330	mg/kg				-			U
Dibenzo(a,h)anthracene	ND	0.00330	"				-			U
Chrysene	ND	0.00330	"				-			U
Benzo(k)fluoranthene	ND	0.00330	"				-			U
Benzo(b)fluoranthene	ND	0.00330	"				-			U
Benzo(a)pyrene	ND	0.00330	"				-			U
Benzo(a)anthracene	ND	0.00330	"				-			U
Anthracene	ND	0.00330	"				-			U
Naphthalene	ND	0.00330	"				-			U
1-Methylnaphthalene	ND	0.00330	"				-			U
Acenaphthene	ND	0.00330	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00330	"				-			U
Pyrene	ND	0.00330	"				-			U
Fluorene	ND	0.00330	"				-			U
Fluoranthene	ND	0.00330	"				-			U

Surrogate: 5-alpha-Androstane

0.0996

"

0.165

60

25-121

LCS (1204763937-BKS)

Prepared: 03/03/2021 Analyzed: 03/03/2021

Naphthalene	0.223	0.00330	mg/kg	0.330		67	52-106
Pyrene	0.293	0.00330	"	0.330		89	42-114
Indeno(1,2,3-cd)pyrene	0.270	0.00330	"	0.330		82	40-132
Fluorene	0.238	0.00330	"	0.330		72	42-113
Fluoranthene	0.231	0.00330	"	0.330		70	43-116
Dibenzo(a,h)anthracene	0.261	0.00330	"	0.330		79	40-137
Chrysene	0.270	0.00330	"	0.330		82	53-108
2-Methylnaphthalene	0.220	0.00330	"	0.330		67	50-109
Benzo(k)fluoranthene	0.252	0.00330	"	0.330		76	39-119

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2098122 - SW846 3541

LCS (1204763937-BKS)

Prepared: 03/03/2021 Analyzed: 03/03/2021

1-Methylnaphthalene	0.217	0.00330	mg/kg	0.330		66	50-109			
Acenaphthene	0.232	0.00330	"	0.330		70	48-107			
Anthracene	0.248	0.00330	"	0.330		75	49-113			
Benzo(a)anthracene	0.232	0.00330	"	0.330		70	51-118			
Benzo(a)pyrene	0.268	0.00330	"	0.330		81	42-123			
Benzo(b)fluoranthene	0.259	0.00330	"	0.330		78	42-119			
Surrogate: 5-alpha-Androstane	0.144		"	0.165		87	25-121			

LCSD (1204763938-BKSD)

Prepared: 03/03/2021 Analyzed: 03/03/2021

Acenaphthene	0.242	0.00333	mg/kg	0.333		73	48-107	4	30	
Chrysene	0.278	0.00333	"	0.333		83	53-108	3	30	
Naphthalene	0.237	0.00333	"	0.333		71	52-106	6	30	
Indeno(1,2,3-cd)pyrene	0.270	0.00333	"	0.333		81	40-132	0	30	
Fluorene	0.248	0.00333	"	0.333		74	42-113	4	30	
Fluoranthene	0.242	0.00333	"	0.333		73	43-116	5	30	
Dibenzo(a,h)anthracene	0.261	0.00333	"	0.333		78	40-137	0	30	
Pyrene	0.292	0.00333	"	0.333		88	42-114	0	30	
Benzo(k)fluoranthene	0.255	0.00333	"	0.333		77	39-119	1	30	
Benzo(b)fluoranthene	0.271	0.00333	"	0.333		81	42-119	5	30	
Benzo(a)pyrene	0.276	0.00333	"	0.333		83	42-123	3	30	
1-Methylnaphthalene	0.231	0.00333	"	0.333		69	50-109	6	30	
Anthracene	0.256	0.00333	"	0.333		77	49-113	3	30	
2-Methylnaphthalene	0.234	0.00333	"	0.333		70	50-109	6	30	
Benzo(a)anthracene	0.241	0.00333	"	0.333		72	51-118	4	30	
Surrogate: 5-alpha-Androstane	0.141		"	0.167		84	25-121			

MS (1204763939 S)

Source: 536339002

Prepared: 03/03/2021 Analyzed: 03/03/2021

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2098122 - SW846 3541

MS (1204763939 S)		Source: 536339002			Prepared: 03/03/2021 Analyzed: 03/03/2021					
Acenaphthene	0.230	0.00354	mg/kg dry	0.354	<0.00117	65	29-118			
Fluorene	0.250	0.00354	"	0.354	0.0147	67	26-123			
2-Methylnaphthalene	0.217	0.00354	"	0.354	0.00981	59	23-124			
1-Methylnaphthalene	0.219	0.00354	"	0.354	0.0165	57	30-129			
Pyrene	0.275	0.00354	"	0.354	0.00210	77	19-139			
Indeno(1,2,3-cd)pyrene	0.251	0.00354	"	0.354	<0.00117	71	14-132			
Fluoranthene	0.241	0.00354	"	0.354	<0.00117	68	21-122			
Dibenzo(a,h)anthracene	0.255	0.00354	"	0.354	<0.00117	72	16-139			
Anthracene	0.250	0.00354	"	0.354	<0.00117	71	29-127			
Naphthalene	0.214	0.00354	"	0.354	<0.00117	61	29-122			
Chrysene	0.276	0.00354	"	0.354	0.00280	77	31-119			
Benzo(a)anthracene	0.236	0.00354	"	0.354	<0.00117	67	31-124			
Benzo(a)pyrene	0.274	0.00354	"	0.354	<0.00117	77	24-129			
Benzo(b)fluoranthene	0.268	0.00354	"	0.354	<0.00117	76	22-130			
Benzo(k)fluoranthene	0.254	0.00354	"	0.354	<0.00117	72	26-130			
Surrogate: 5-alpha-Androstane	0.151		"	0.177	0.144	86	25-121			

MSD (1204763940 SD)		Source: 536339002			Prepared: 03/03/2021 Analyzed: 03/03/2021					
Chrysene	0.299	0.00357	mg/kg dry	0.357	0.00280	83	31-119	8	30	
1-Methylnaphthalene	0.226	0.00357	"	0.357	0.0165	59	30-129	3	30	
Naphthalene	0.218	0.00357	"	0.357	<0.00118	61	29-122	2	30	
Indeno(1,2,3-cd)pyrene	0.300	0.00357	"	0.357	<0.00118	84	14-132	18	30	
Fluorene	0.257	0.00357	"	0.357	0.0147	68	26-123	3	30	
Fluoranthene	0.255	0.00357	"	0.357	<0.00118	71	21-122	6	30	
Dibenzo(a,h)anthracene	0.307	0.00357	"	0.357	<0.00118	86	16-139	19	30	
Pyrene	0.304	0.00357	"	0.357	0.00210	85	19-139	10	30	
Benzo(k)fluoranthene	0.267	0.00357	"	0.357	<0.00118	75	26-130	5	30	

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

PAH by EPA 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2098122 - SW846 3541										
MSD (1204763940 SD)		Source: 536339002			Prepared: 03/03/2021 Analyzed: 03/03/2021					
Benzo(b)fluoranthene	0.282	0.00357	mg/kg dry	0.357	<0.00118	79	22-130	5	30	
Benzo(a)pyrene	0.293	0.00357	"	0.357	<0.00118	82	24-129	7	30	
Benzo(a)anthracene	0.256	0.00357	"	0.357	<0.00118	72	31-124	8	30	
Anthracene	0.267	0.00357	"	0.357	<0.00118	75	29-127	7	30	
Acenaphthene	0.241	0.00357	"	0.357	<0.00118	68	29-118	5	30	
2-Methylnaphthalene	0.222	0.00357	"	0.357	0.00981	59	23-124	2	30	
Surrogate: 5-alpha-Androstane	0.145		"	0.179	0.144	81	25-121			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: State Seventy Holes T-6 Pad

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

J Greater than the detection limit but less than the reporting limit

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.



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.



April 09, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - State Seventy Holes T-6 Pad

Project Number - [none]

Attached are your analytical results for State Seventy Holes T-6 Pad received by Origins Laboratory, Inc. March 30, 2021. This project is associated with Origins project number Y103523-01.

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: State Seventy Holes T-6 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-08@8.5'	Y103523-01	Soil	March 30, 2021 11:15	03/30/2021 15:23
SS-09@10.5'	Y103523-02	Soil	March 30, 2021 11:18	03/30/2021 15:23
SS-10@8'	Y103523-03	Soil	March 30, 2021 11:21	03/30/2021 15:23
SS-11@8.5'	Y103523-04	Soil	March 30, 2021 11:24	03/30/2021 15:23
SS-12@9'	Y103523-05	Soil	March 30, 2021 11:27	03/30/2021 15:23

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.

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: State Seventy Holes T-6 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y103523

Client: Eagle

Client Project ID: State Seventy Holes T-6 Pad

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 3/31/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.5 °C / °C / °C (Describe) °C

Thermometer ID: T003

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.

Reviewed by (Project Manager) jm

Date/Time Reviewed 4-1-12

Origins Laboratory, Inc.

Jefe Pellegrini

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-08@8.5'

3/30/2021 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y103523-01 (Soil)

Boron (Sorbitol)

Boron	0.7	mg/L	1	[none]	04/06/2021	04/08/2021
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Metals (Saturated Paste Prep)

Calcium	15.04	me/L	1	[none]	"	04/08/2021
Magnesium	4.12	"	"	"	"	"
Sodium	39.83	"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.66	pH Units	1	B1D0110	DJL	04/01/2021	04/01/2021
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SAR by 20B Saturated Paste

SAR	12.87		1	[none]	04/06/2021	04/08/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	5.60	0.00500 mmhos/cm	1	B1D0111	DJL	04/01/2021	04/01/2021
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: State Seventy Holes T-6 Pad

SS-09@10.5'**3/30/2021 11:18:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y103523-02 (Soil)**Boron (Sorbitol)**

Boron	0.9	mg/L	1	[none]		04/06/2021	04/08/2021
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Metals (Saturated Paste Prep)

Calcium	3.44	me/L	1	[none]		"	04/08/2021
Magnesium	1.07	"	"	"		"	"
Sodium	32.94	"	"	"		"	"

pH in Soil by EPA 9045D

pH	7.33	pH Units	1	B1D0110	DJL	04/01/2021	04/01/2021
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SAR by 20B Saturated Paste

SAR	21.94		1	[none]		04/06/2021	04/08/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.93	0.00500	mmhos/cm	1	B1D0111	DJL	04/01/2021	04/01/2021
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: State Seventy Holes T-6 Pad

SS-10@8'**3/30/2021 11:21:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y103523-03 (Soil)**Boron (Sorbitol)**

Boron	0.1	mg/L	1	[none]	04/06/2021	04/08/2021
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Metals (Saturated Paste Prep)

Calcium	36.44	me/L	1	[none]	"	04/08/2021
Magnesium	13.31	"	"	"	"	"
Sodium	13.92	"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.41	pH Units	1	B1D0110	DJL	04/01/2021	04/01/2021
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SAR by 20B Saturated Paste

SAR	2.79		1	[none]	04/06/2021	04/08/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	5.37	0.00500	mmhos/cm	1	B1D0111	DJL	04/01/2021	04/01/2021
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

SS-11@8.5'

3/30/2021 11:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y103523-04 (Soil)

Boron (Sorbitol)

Boron	0.3	mg/L	1	[none]	04/06/2021	04/08/2021
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Metals (Saturated Paste Prep)

Calcium	3.79	me/L	1	[none]	"	04/08/2021
Magnesium	1.30	"	"	"	"	"
Sodium	13.65	"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.28	pH Units	1	B1D0110	DJL	04/01/2021	04/01/2021
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SAR by 20B Saturated Paste

SAR	8.56		1	[none]	04/06/2021	04/08/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.07	0.00500 mmhos/cm	1	B1D0111	DJL	04/01/2021	04/01/2021
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: State Seventy Holes T-6 Pad

SS-12@9'**3/30/2021 11:27:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y103523-05 (Soil)**Boron (Sorbitol)**

Boron	0.1	mg/L	1	[none]		04/06/2021	04/08/2021
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Metals (Saturated Paste Prep)

Calcium	30.53	me/L	1	[none]		"	04/08/2021
Magnesium	9.67	"	"	"		"	"
Sodium	2.31	"	"	"		"	"

pH in Soil by EPA 9045D

pH	7.71	pH Units	1	B1D0110	DJL	04/01/2021	04/01/2021
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SAR by 20B Saturated Paste

SAR	0.52		1	[none]		04/06/2021	04/08/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	4.20	0.00500	mmhos/cm	1	B1D0111	DJL	04/01/2021	04/01/2021
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: State Seventy Holes T-6 Pad

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1D0110 - NO PREP										
Duplicate (B1D0110-DUP1)		Source: Y103522-01			Prepared: 04/01/2021 Analyzed: 04/01/2021					
pH	7.09		pH Units		7.17			1.12	25	
Batch B1D0111 - NO PREP										
Blank (B1D0111-BLK1)		Prepared: 04/01/2021 Analyzed: 04/01/2021								
Specific Conductance (EC)	0.00230	0.00500	mmhos/cm							
Duplicate (B1D0111-DUP1)		Source: Y103522-01			Prepared: 04/01/2021 Analyzed: 04/01/2021					
Specific Conductance (EC)	0.306	0.00500	mmhos/cm		0.331			8.01	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: State Seventy Holes T-6 Pad

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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