



## **FIGURES**

**Figure 1: Topographic Site Location Map**

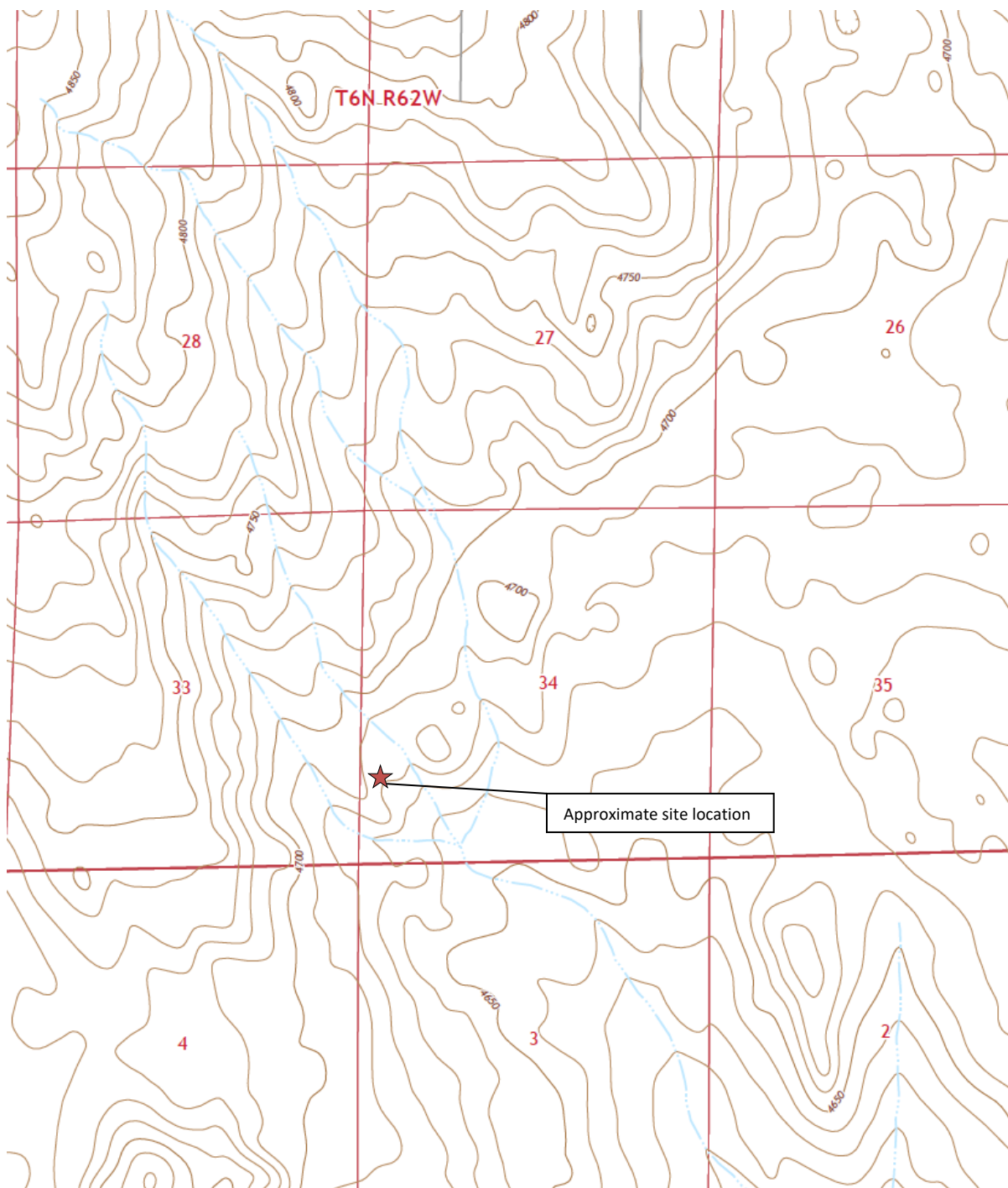
**Figure 2: Aerial Site Location Map**

**Figure 3: Initial Assessment Soil Analytical Map**

**Figure 4: Initial Assessment Polycyclic Aromatic Hydrocarbons Map**

**Figure 5: Confirmation Soil Analytical Map**

**Figure 6: Confirmation PAH Map**



**Topographic Site Location Map**

Fiducial 6-62-34\_35 SWSW  
Oil Release  
40.440320 / -104.317498  
SW¼ SW¼ SEC.34 T6N R62W 6PM  
Weld County, Colorado  
Location ID 436863  
Spill ID 480748

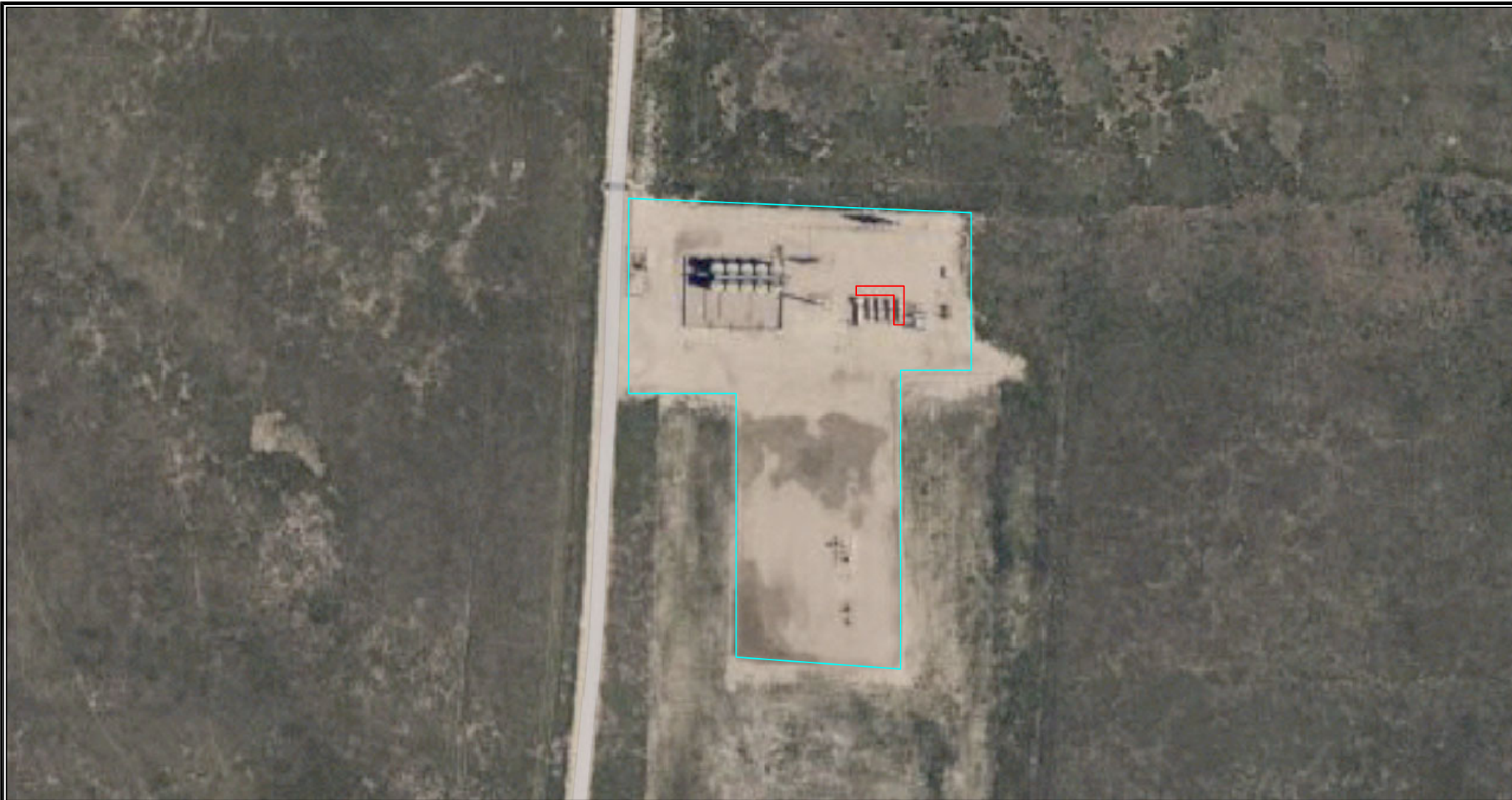


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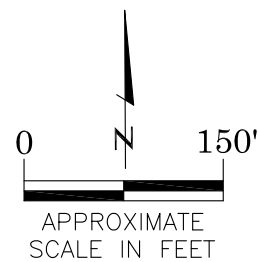
Source: USGS 7.5 Minute Topographic  
Map, Point of Rocks, CO Quadrangle  
2019

**Figure 1**



# LEGEND

- APPROXIMATE PAD BOUNDARIES
- APPROXIMATE RELEASE LOCATION / ASSESSMENT BOUNDARIES



AERIAL SITE LOCATION MAP  
 FIDUCIAL 6-62-34\_35 SWSW  
 OIL RELEASE  
 40.440320 / -104.317498  
 SW1/4 SW1/4 SEC.34 T6N R62W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 436863  
 SPILL ID 480748

DATE:  
 01/14/22

FIG. NO. DRAWN BY:  
 2 AMN



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 CONSULTING, INC.  
 8000 W 44th Ave, Wheat Ridge, CO 80033  
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# LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES  
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)	

mg/kg = MILLIGRAMS PER KILOGRAM

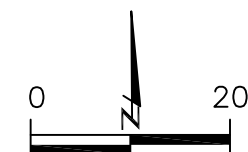
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

VALUES WITH ASTERISK (\*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS FOR THAT COMPOUND.

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APPROXIMATE  
SCALE IN FEET

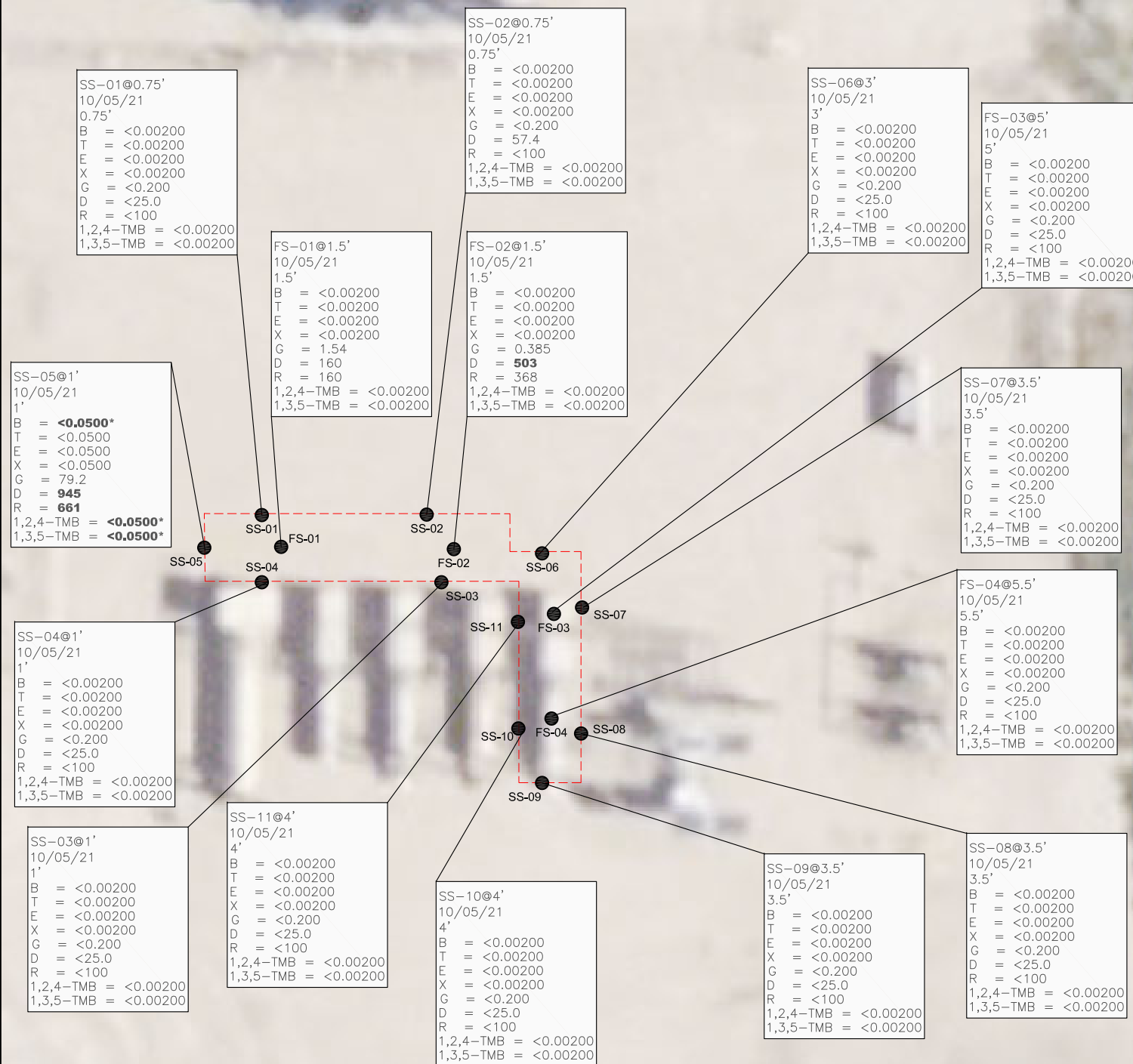
INITIAL ASSESSMENT SOIL ANALYTICAL MAP  
FIDUCIAL 6-62-34\_35 SWSW  
OIL RELEASE  
40.440320 / -104.317498  
SW1/4 SW1/4 SEC.34 T6N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 436863  
SPILL ID 480748

DATE:  
01/14/22  
DRAWN BY:  
AMN

FIG.  
NO. 3



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SS-05@1'  
10/05/21  
1'  
ND = <0.0067  
1-Methylnaphthalene = **2.09\***  
2-Methylnaphthalene = **1.37\***  
Acenaphthene = 0.124  
Anthracene = 0.0283  
Benzo(a)anthracene = **0.0324\***  
Benzo(a)pyrene = 0.00482  
Benzo(b)fluoranthene = 0.0169  
Benzo(k)fluoranthene = 0.00294  
Chrysene = 0.226  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.011  
Fluorene = 0.528  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = **0.181\***  
Pyrene = 0.0804

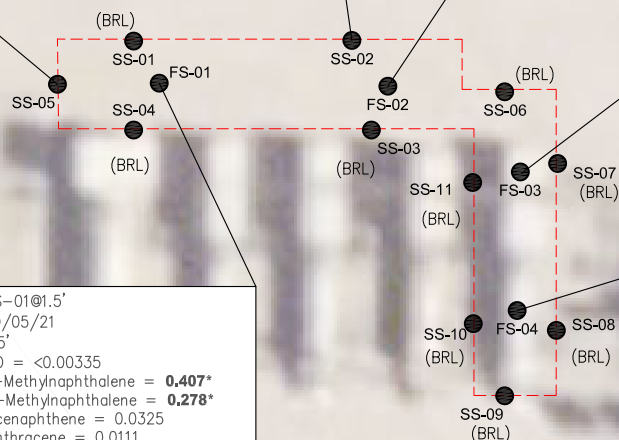
SS-02@0.75'  
10/05/21  
0.75'  
ND = <0.00335  
1-Methylnaphthalene = **0.012\***  
2-Methylnaphthalene = 0.0108  
Acenaphthene = 0.00283  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = 0.0105  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = 0.0185  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

FS-02@1.5'  
10/05/21  
1.5'  
ND = <0.00335  
1-Methylnaphthalene = **0.338\***  
2-Methylnaphthalene = **0.206\***  
Acenaphthene = 0.0676  
Anthracene = 0.0131  
Benzo(a)anthracene = **0.0147\***  
Benzo(a)pyrene = 0.00155  
Benzo(b)fluoranthene = 0.00566  
Benzo(k)fluoranthene = 0.00215  
Chrysene = 0.109  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.00514  
Fluorene = 0.274  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = 0.0402

FS-03@5'  
10/05/21  
5'  
ND = <0.00067  
1-Methylnaphthalene = **0.0152\***  
2-Methylnaphthalene = 0.0056  
Acenaphthene = 0.00218  
Anthracene = 0.000789  
Benzo(a)anthracene = 0.000851  
Benzo(a)pyrene = 0.000557  
Benzo(b)fluoranthene = 0.000656  
Benzo(k)fluoranthene = ND  
Chrysene = 0.0075  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.000394  
Fluorene = 0.0124  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = 0.00318

FS-01@1.5'  
10/05/21  
1.5'  
ND = <0.00335  
1-Methylnaphthalene = **0.407\***  
2-Methylnaphthalene = **0.278\***  
Acenaphthene = 0.0325  
Anthracene = 0.0111  
Benzo(a)anthracene = 0.00866  
Benzo(a)pyrene = 0.00177  
Benzo(b)fluoranthene = 0.00357  
Benzo(k)fluoranthene = 0.00148  
Chrysene = 0.0703  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.00324  
Fluorene = 0.169  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = **0.0258\***  
Pyrene = 0.0265

FS-04@5'  
10/05/21  
5'  
ND = <0.00067  
1-Methylnaphthalene = **0.00695\***  
2-Methylnaphthalene = 0.0026  
Acenaphthene = 0.00159  
Anthracene = 0.000536  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = 0.000372  
Benzo(b)fluoranthene = 0.000456  
Benzo(k)fluoranthene = ND  
Chrysene = 0.00419  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = 0.00787  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = 0.00167



## LEGEND

- INITIAL 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

ND = NON-DETECT

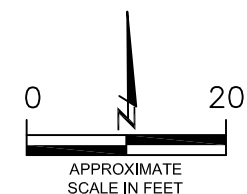
(BRL) = BELOW REGULATORY LIMITS

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

VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED APPLICABLE  
COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT  
COMPOUND

VALUES PRESENTED WITH AN ASTERISK (\*) EXCEED COGCC  
TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING  
LEVELS

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION



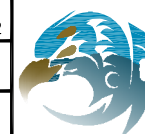
## INITIAL ASSESSMENT POLYCYCLIC AROMATIC HYDROCARBONS

MAP  
FIDUCIAL 6-62-34\_35 SWSW  
OIL RELEASE  
40.440320 / -104.317498  
SW1/4 SW1/4 SEC.34 T6N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 436863  
SPILL ID 480748

DATE:  
01/14/22

DRAWN BY:  
AMN

FIG.  
NO. 2



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449

# LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- ADDITIONAL SOURCE EXCAVATION 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)

mg/kg = MILLIGRAMS PER KILOGRAM

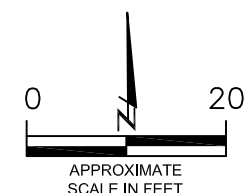
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

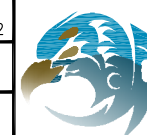
VALUES PRESENTED WITH ASTERISK (\*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS FOR THAT COMPOUND

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

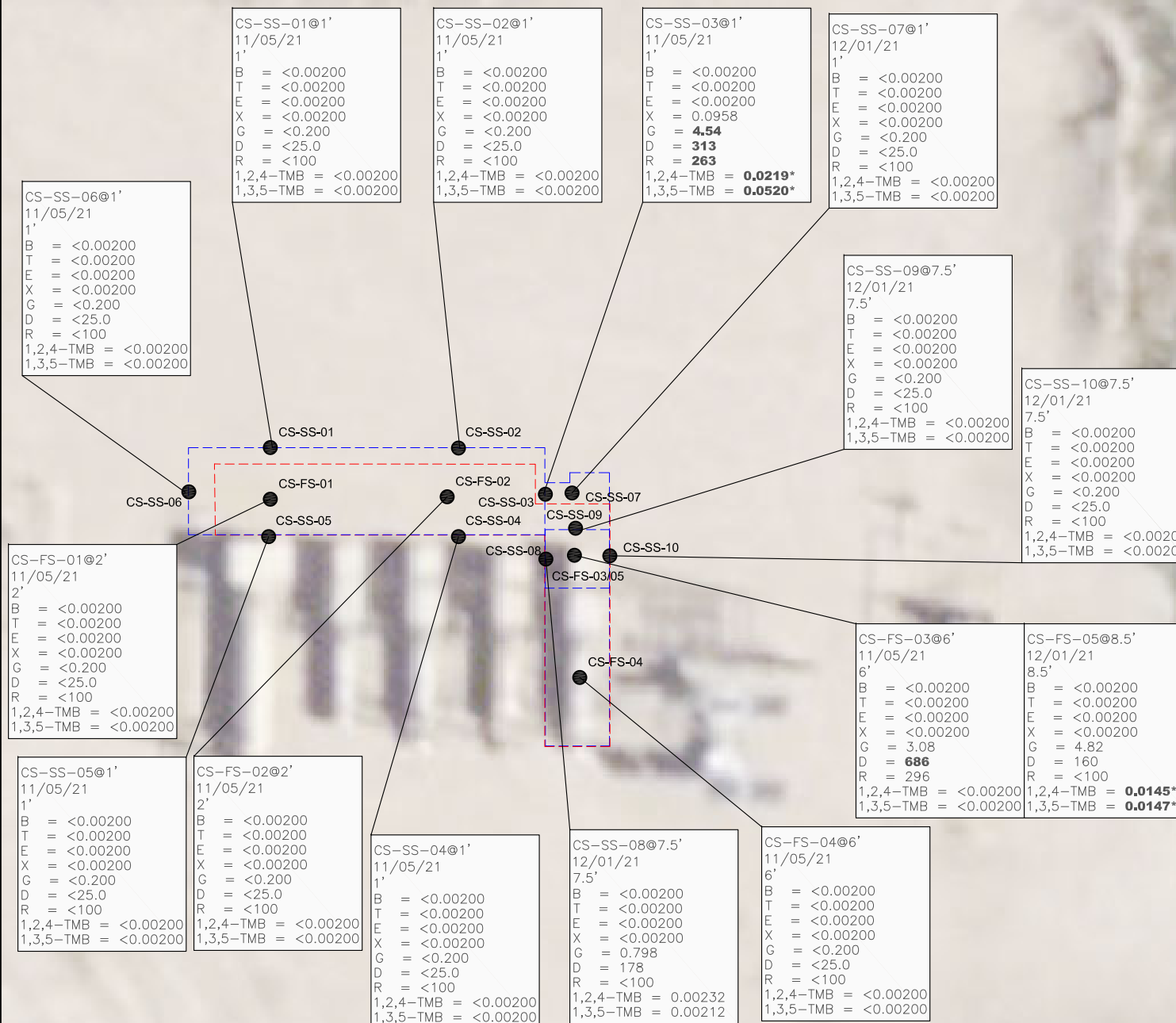


CONFIRMATION SOIL ANALYTICAL MAP  
FIDUCIAL 6-62-34\_35 SWSW  
OIL RELEASE  
40.440320 / -104.317498  
SW1/4 SW1/4 SEC.34 T6N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 436863  
SPILL ID 480748

DATE:  
01/14/22  
DRAWN BY:  
AMN  
FIG.  
NO. 5



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



# LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- ADDITIONAL SOURCE EXCAVATION 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

ND = NON-DETECT

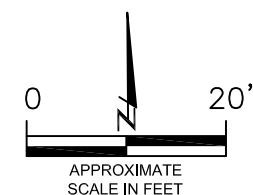
(BRL) = ALL CONCENTRATIONS ARE BELOW REGULATORY LIMITS

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

VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED APPLICABLE COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND

VALUES PRESENTED WITH AN ASTERISK (\*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION



## CONFIRMATION POLYCYCLIC AROMATIC HYDROCARBONS MAP

FIDUCIAL 6-62-34\_35 SWSW  
OIL RELEASE  
40.440320 / -104.317498  
SW1/4 SW1/4 SEC.34 T6N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 436863  
SPILL ID 480748

DATE:  
01/14/22

DRAWN BY:  
AMN

FIG.  
NO. 6



**EAGLE**  
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CS-SS-03@1'  
11/05/21  
1'  
ND = <0.00335  
1-Methylnaphthalene = **0.786\***  
2-Methylnaphthalene = **0.385\***  
Acenaphthene = 0.0645  
Anthracene = 0.00372  
Benzo(a)anthracene = **0.0131\***  
Benzo(a)pyrene = 0.00394  
Benzo(b)fluoranthene = 0.00892  
Benzo(k)fluoranthene = ND  
Chrysene = 0.135  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.00412  
Fluorene = 0.276  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = **0.0822\***  
Pyrene = 0.0479

CS-FS-05@8.5'  
12/01/21  
8.5'  
ND = <0.00335  
1-Methylnaphthalene = **0.148\***  
2-Methylnaphthalene = **0.0484\***  
Acenaphthene = 0.0115  
Anthracene = 0.00295  
Benzo(a)anthracene = 0.00196  
Benzo(a)pyrene = 0.00133  
Benzo(b)fluoranthene = 0.0011  
Benzo(k)fluoranthene = ND  
Chrysene = 0.0177  
Dibenzo(a,h)anthracene = 0.00113  
Fluoranthene = 0.000821  
Fluorene = 0.0477  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = 0.00302  
Pyrene = 0.00835

CS-SS-08@7.5'  
12/01/21  
7.5'  
ND = <0.00335  
1-Methylnaphthalene = **0.0388\***  
2-Methylnaphthalene = **0.0266\***  
Acenaphthene = 0.00491  
Anthracene = 0.00212  
Benzo(a)anthracene = 0.000768  
Benzo(a)pyrene = 0.000896  
Benzo(b)fluoranthene = 0.000438  
Benzo(k)fluoranthene = ND  
Chrysene = 0.00942  
Dibenzo(a,h)anthracene = 0.000808  
Fluoranthene = 0.000713  
Fluorene = 0.0214  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = 0.00159  
Pyrene = 0.00482

(BRL) CS-SS-01 (BRL) CS-SS-02  
(BRL) CS-SS-06 (BRL) CS-FS-01 (BRL) CS-FS-02 (BRL) CS-SS-07  
(BRL) CS-SS-05 (BRL) CS-SS-03 (BRL) CS-SS-04 (BRL) CS-SS-09 (BRL) CS-SS-10 (BRL)  
(BRL) CS-SS-08 (FS-03 = BRL) CS-FS-03/05  
CS-FS-04 (BRL)



## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary**



**TABLE 1**  
**PID READING SUMMARY**  
**FIDUCIAL 6-62-34\_35 SWSW**  
**OIL RELEASE**  
**40.440320 / -104.317498**  
**SW1/4 SW1/4 SEC.34 T6N R62W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 436863**  
**SPILL ID 480748**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
SS-01 @ 0.75' (40.440308 / -104.317527)	10/05/21	0.75	2.1	Y
SS-02 @ 0.75' (40.440308 / -104.317445)	10/05/21	0.75	4.2	Y
SS-03 @ 1' (40.440283 / -104.317446)	10/05/21	1	2.0	Y
SS-04 @ 1' (40.440284 / -104.317522)	10/05/21	1	1.8	Y
SS-05 @ 1' (40.440294 / -104.317556)	10/05/21	1	4.9	Y
SS-06 @ 3' (40.440301 / -104.317387)	10/05/21	3	3.6	Y
SS-07 @ 3.5' (40.440276 / -104.317371)	10/05/21	3.5	1.1	Y
SS-08 @ 3.5' (40.440236 / -104.317370)	10/05/21	3.5	1.4	Y
SS-09 @ 3.5' (40.440215 / -104.317383)	10/05/21	3.5	3.3	Y
SS-10 @ 4' (40.440235 / -104.317400)	10/05/21	4	0.7	Y
SS-11 @ 4' (40.440270 / -104.317399)	10/05/21	4	1.6	Y
FS-01 @ 1.5' (40.440295 / -104.317512)	10/05/21	2	7.8	Y
FS-02 @ 1.5' (40.440295 / -104.317454)	10/05/21	2	8.1	Y
FS-03 @ 5' (40.440275 / -104.317385)	10/05/21	5.0	6.7	Y
FS-04 @ 5.5' (40.440238 / -104.317383)	10/05/21	5.5	2.2	Y
CS-SS-01 @ 1' (40.440310 / -104.317527)	11/05/21	1	1.3	Y
CS-SS-02 @ 1' (40.440310 / -104.317445)	11/05/21	1	2.5	Y
CS-SS-03 @ 1' (40.440298 / -104.317429)	11/05/21	1	13.9	Y
CS-SS-04 @ 1' (40.440283 / -104.317446)	11/05/21	1	4.4	Y
CS-SS-05 @ 1' (40.440284 / -104.317522)	11/05/21	1	3.8	Y
CS-SS-06 @ 1' (40.440294 / -104.317567)	11/05/21	1	5.5	Y

**TABLE 1**  
**PID READING SUMMARY**  
**FIDUCIAL 6-62-34\_35 SWSW**  
**OIL RELEASE**  
**40.440320 / -104.317498**  
**SW1/4 SW1/4 SEC.34 T6N R62W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 436863**  
**SPILL ID 480748**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
CS-FS-01 @ 2' (40.440294 / -104.317513)	11/05/21	2	6.3	Y
CS-FS-02 @ 2' (40.440295 / -104.317453)	11/05/21	2	5.7	Y
CS-FS-03 @ 6' (40.440274 / -104.317384)	11/05/21	6	7.8	Y
CS-FS-04 @ 6' (40.440238 / -104.317384)	11/05/21	6	6.8	Y
CS-SS-07 @ 1' (40.440306 / -104.317389)	12/01/21	1	7.5	Y
CS-SS-08 @ 7.5' (40.440272 / -104.317399)	12/01/21	7.5	2.3	Y
CS-SS-09 @ 7.5' (40.440301 / -104.317386)	12/01/21	7.5	9.6	Y
CS-SS-10 @ 7.5' (40.4402771 / -104.317371)	12/01/21	7.5	1.4	Y
CS-FS-05 @ 8.5' (40.440274 / -104.317384)	12/01/21	8.5	5.6	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
FIDUCIAL 6-62-34\_35 SWSW  
OIL RELEASE  
40.440320 / -104.317498  
SW1/4 SW1/4 SEC.34 T6N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 436863  
SPILL ID 480748

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-TMB (mg/kg)	1,3,5-TMB (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels (mg/kg)</b>				<b>1.20</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>30</b>	<b>27</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels (mg/kg)</b>				<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>--</b>			<b>0.0081</b>	<b>0.0087</b>
SS-01 @ 0.75' (40.440308 / -104.317527)	10/05/21	0.75	2.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
SS-02 @ 0.75' (40.440308 / -104.317445)	10/05/21	0.75	4.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	57.4	<100	<0.00200	<0.00200
SS-03 @ 1' (40.440283 / -104.317446)	10/05/21	1	2.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
SS-04 @ 1' (40.440284 / -104.317522)	10/05/21	1	1.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
SS-05 @ 1' (40.440294 / -104.317556)	10/05/21	1	4.9	<0.0500*	<0.0500	<0.0500	<0.0500	79.2	945	661	<0.0500*	<0.0500*
SS-06 @ 3' (40.440301 / -104.317387)	10/05/21	3	3.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
SS-07 @ 3.5' (40.440276 / -104.317371)	10/05/21	3.5	1.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
SS-08 @ 3.5' (40.440236 / -104.317370)	10/05/21	3.5	1.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
SS-09 @ 3.5' (40.440215 / -104.317383)	10/05/21	3.5	3.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
SS-10 @ 4' (40.440235 / -104.317400)	10/05/21	4	0.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
SS-11 @ 4' (40.440270 / -104.317399)	10/05/21	4	1.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
FS-01 @ 1.5' (40.440295 / -104.317512)	10/05/21	2	7.8	<0.00200	<0.00200	<0.00200	<0.00200	1.54	160	160	<0.00200	<0.00200
FS-02 @ 1.5' (40.440295 / -104.317454)	10/05/21	2	8.1	<0.00200	<0.00200	<0.00200	<0.00200	0.385	503	368	<0.00200	<0.00200
FS-03 @ 5' (40.440275 / -104.317385)	10/05/21	5.0	6.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
FS-04 @ 5.5' (40.440238 / -104.317383)	10/05/21	5.5	2.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-01 @ 1' (40.440310 / -104.317527)	11/05/21	1	1.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-02 @ 1' (40.440310 / -104.317445)	11/05/21	1	2.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-03 @ 1' (40.440298 / -104.317429)	11/05/21	1	13.9	<0.00200	<0.00200	<0.00200	0.0958	4.54	313	263	0.0219*	0.0520*
CS-SS-04 @ 1' (40.440283 / -104.317446)	11/05/21	1	4.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-05 @ 1' (40.440284 / -104.317522)	11/05/21	1	3.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-06 @ 1' (40.440294 / -104.317567)	11/05/21	1	5.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-01 @ 2' (40.440294 / -104.317513)	11/05/21	2	6.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-02 @ 2' (40.440295 / -104.317453)	11/05/21	2	5.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-03 @ 6' (40.440274 / -104.317384)	11/05/21	6	7.8	<0.00200	<0.00200	<0.00200	<0.00200	3.08	686	296	<0.00200	<0.00200
CS-FS-04 @ 6' (40.440238 / -104.317384)	11/05/21	6	6.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
FIDUCIAL 6-62-34\_35 SWSW  
OIL RELEASE  
40.440320 / -104.317498  
SW1/4 SW1/4 SEC.34 T6N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 436863  
SPILL ID 480748

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-TMB (mg/kg)	1,3,5-TMB (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels (mg/kg)</b>				1.20	490	5.8	58	500			30	27
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels (mg/kg)</b>				0.0026	0.69	0.78	9.9	--			0.0081	0.0087
CS-SS-07 @ 1' (40.440306 / -104.317389)	12/01/21	1	7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-08 @ 7.5' (40.440272 / -104.317399)	12/01/21	7.5	2.3	<0.00200	<0.00200	<0.00200	<0.00200	0.798	178	<100	0.00232	0.00212
CS-SS-09 @ 7.5' (40.440301 / -104.317386)	12/01/21	7.5	9.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-10 @ 7.5' (40.4402771 / -104.317371)	12/01/21	7.5	1.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-05 @ 8.5' (40.440274 / -104.317384)	12/01/21	8.5	5.6	<0.00200	<0.00200	<0.00200	0.00328	4.82	160	<100	<b>0.0145*</b>	<b>0.0147*</b>
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram PID = Photoionization Detector ppm-v = parts per million by volume 1,2,4-TMB = 1,2,4-Trimethylbenzene 1,3,5-TMB = 1,3,5-Trimethylbenzene Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in <b>BOLD</b> contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits Note: Values presented in <b>BOLD</b> with asterisk (*) contained concentrations exceeding applicable COGCC Table 915-1 "Protection of Groundwater Soil Screening Levels"												

TABLE 3  
PAH ANALYTICAL RESULTS SUMMARY  
FIDUCIAL 6-62-34\_35 SWSW  
OIL RELEASE  
40.440320 / -104.317498  
SW1/4 SW1/4 SEC.34 T6N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 436863  
SPILL ID 480748

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	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)	Ieno(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
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
SS-01 @ 0.75' (40.440308 / -104.317527)	10/05/21	0.75	2.1	0.00105	0.00131	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00161	<0.00067	<0.00067	0.000801	<0.00067	<0.00067	<0.00067
SS-02 @ 0.75' (40.440308 / -104.317445)	10/05/21	0.75	4.2	<b>0.012*</b>	0.0108	0.00283	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	0.0105	<0.00335	<0.00335	0.0185	<0.00335	<0.00335	<0.00335
SS-03 @ 1' (40.440283 / -104.317446)	10/05/21	1	2.0	<0.00067	<0.00067	<0.00067	0.00509	<0.00067	<0.00067	<0.00067	<0.00067	0.00299	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000627
SS-04 @ 1' (40.440284 / -104.317522)	10/05/21	1	1.8	0.000505	0.000554	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-05 @ 1' (40.440294 / -104.317556)	10/05/21	1	4.9	<b>2.09*</b>	<b>1.37*</b>	0.124	0.0283	<b>0.0324*</b>	0.00482	0.0169	0.00294	0.226	<0.0067	0.011	0.528	<0.0067	<b>0.181*</b>	0.0804
SS-06 @ 3' (40.440301 / -104.317387)	10/05/21	3	3.6	0.000447	0.00052	<0.00067	0.000345	<0.00067	<0.00067	0.000488	<0.00067	0.00395	<0.00067	<0.00067	0.00231	<0.00067	<0.00067	<0.00067
SS-07 @ 3.5' (40.440276 / -104.317371)	10/05/21	3.5	1.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000295	0.000554	<0.00067	0.000959	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-08 @ 3.5' (40.440236 / -104.317370)	10/05/21	3.5	1.4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000641	<0.00067	<0.00067	0.000569	<0.00067	<0.00067	<0.00067
SS-09 @ 3.5' (40.440215 / -104.317383)	10/05/21	3.5	3.3	0.000413	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-10 @ 4' (40.440235 / -104.317400)	10/05/21	4	0.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000274	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000319	0.000603	<0.00067
SS-11 @ 4' (40.440270 / -104.317399)	10/05/21	4	1.6	0.00466	0.000533	<0.00067	<0.00067	<0.00067	0.000565	0.00057	<0.00067	0.000733	<0.00067	<0.00067	0.000835	0.000479	0.000682	<0.00067
FS-01 @ 1.5' (40.440295 / -104.317512)	10/05/21	2	7.8	<b>0.407*</b>	<b>0.278*</b>	0.0325	0.0111	0.00866	0.00177	0.00357	0.00148	0.0703	<0.00335	0.00324	0.169	<0.00335	<b>0.0258*</b>	0.0265
FS-02 @ 1.5' (40.440295 / -104.317454)	10/05/21	2	8.1	<b>0.338*</b>	<b>0.206*</b>	0.0676	0.0131	<b>0.0147*</b>	0.00155	0.00566	0.00215	0.109	<0.00335	0.00514	0.274	<0.00335	<0.00335	0.0402
FS-03 @ 5' (40.440275 / -104.317385)	10/05/21	5.0	6.7	<b>0.0152*</b>	0.0056	0.00218	0.000789	0.000851	0.000557	0.000656	<0.00067	0.0075	<0.00067	0.000394	0.0124	<0.00067	<0.00067	0.00318
FS-04 @ 5.5' (40.440238 / -104.317383)	10/05/21	5.5	2.2	<b>0.00695*</b>	0.0026	0.00159	0.000536	<0.00067	0.000372	0.000456	<0.00067	0.00419	<0.00067	<0.00067	0.00787	<0.00067	<0.00067	0.00167
CS-SS-01 @ 1' (40.440310 / -104.317527)	11/05/21	1	1.3	0.000579	0.000717	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00417	<0.00067	<0.00067	0.00401	<0.00067	<0.00067	<0.00067
CS-SS-02 @ 1' (40.440310 / -104.317445)	11/05/21	1	2.5	0.000894	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000312	<0.00067	<0.00067	0.000743	<0.00067	<0.00067	<0.00067
CS-SS-03 @ 1' (40.440298 / -104.317429)	11/05/21	1	13.9	<b>0.786*</b>	<b>0.385*</b>	0.0645	0.00382	<b>0.0131*</b>	0.00394	0.00892	<0.00335	0.135	<0.00335	0.00412	0.276	<0.00335	<b>0.0822*</b>	0.0479
CS-SS-04 @ 1' (40.440283 / -104.317446)	11/05/21	1	4.4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-SS-05 @ 1' (40.440284 / -104.317522)	11/05/21	1	3.8	<0.00067	<0.00067	0.000396	0.00119	0.00115	0.000261	0.000649	<0.00067	0.0131	<0.00067	<0.00067	0.00799	<0.00067	<0.00067	0.00322
CS-SS-06 @ 1' (40.440294 / -104.317567)	11/05/21	1	5.5	0.00129	0.000918	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00226	<0.00067	<0.00067	0.00317	<0.00067	<0.00067	<0.00067
CS-FS-01 @ 2' (40.440294 / -104.317513)	11/05/21	2	6.3	0.000442	0.000453	0.000576	0.000498	0.000478	<0.00067	0.000471	<0.00067	0.00798	<0.00067	<0.00067	0.008	<0.00067	<0.00067	0.00146
CS-FS-02 @ 2' (40.440295 / -104.317453)	11/05/21	2	5.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00121	<0.00067	<0.00067	0.00113	<0.00067	<0.00067	<0.00067
CS-FS-03 @ 6' (40.440274 / -104.317384)	11/05/21	6	7.8	0.00276	0.000641	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00298	<0.00067	<0.00067	0.0043	<0.00067	<0.00067	<0.00067
CS-FS-04 @ 6' (40.440238 / -104.317384)	11/05/21	6	6.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00119	<0.00067	<0.00067	0.000678	<0.00067	<0.00067	<0.00067
CS-SS-07 @ 1' (40.440306 / -104.317388)	12/01/21	1	7.5	0.00448	0.00261	0.00241	0.000673	0.000681	0.000816	<0.00067	<0.00067	0.0077	0.00104	<0.00067	0.014	<0.00067	<0.00067	0.00316
CS-SS-08 @ 7.5' (40.440272 / -104.317399)	12/01/21	7.5	2.3	<b>0.0388*</b>	<b>0.0266*</b>	0.00491	0.00212	0.000768	0.000896	0.000438	<0.00067	0.00942	0.000808	0.000713	0.0214	<0.00067	0.0159	0.00482
CS-SS-09 @ 7.5' (40.440301 / -104.317386)	12/01/21	7.5	9.6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000288	<0.00067	<0.00067	0.00129	<0.00067	<0.00067	0.00125	<0.00067	<0.00067	<0.00067
CS-SS-10 @ 7.5' (40.440277 / -104.317371)	12/01/21	7.5	1.4	0.00106	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00129	<0.00067	<0.00067	0.00126	<0.00067	<0.00067	<0.00067
CS-FS-05 @ 8.5' (40.440274 / -104.317384)	12/01/21	8.5	5.6	<b>0.148*</b>	<b>0.0484*</b>	0.0115	0.00295	0.00196	0.00133	0.0011	<0.00067	0.0177	0.00113	0.000821	0.0477	<0.00067	0.00302	0.00835

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram ppm-v = parts per million by volume

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting and/or minimum detection limits.

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

Note: Values presented in **BOLD** with \* contained concentrations exceeding applicable COGCC Table 915-1 "Protection of Groundwater Soil Screening Levels"





## **ATTACHMENT A**

### **Photolog**

Fiducial 6-62-34\_35 SWSW  
Location ID 436863  
Spill ID 480748

Oil Release

August-December 2021

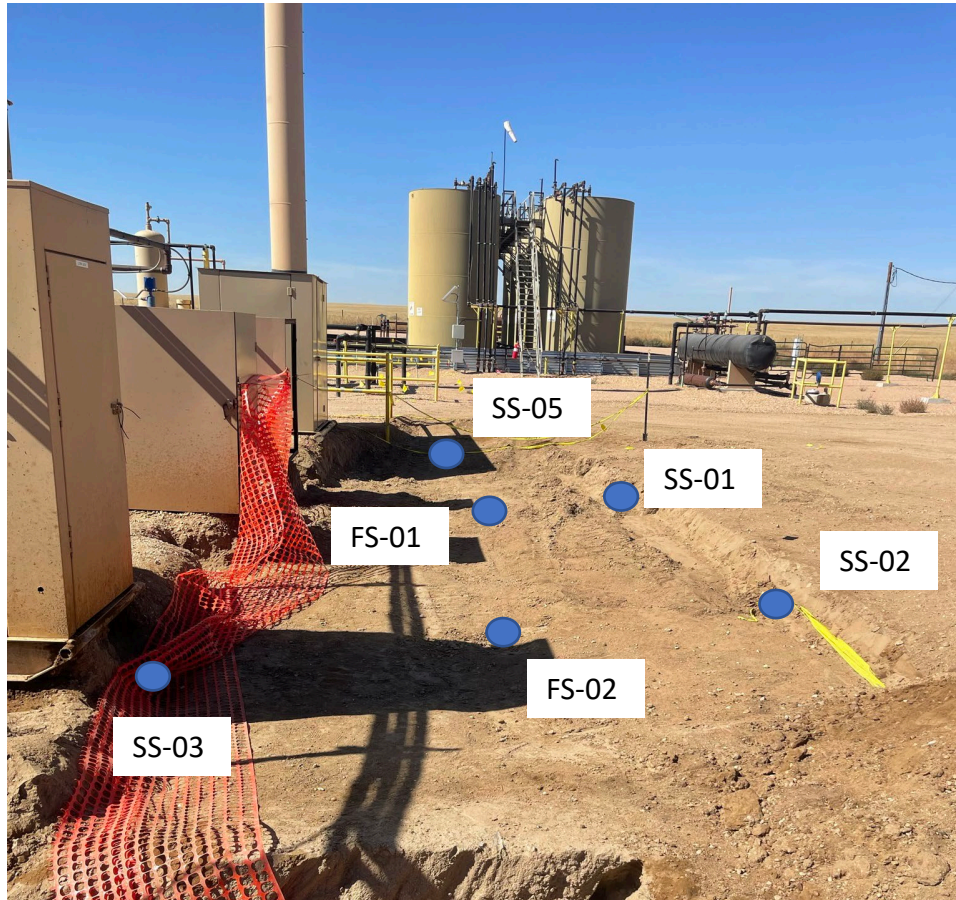


**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.

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



# Initial Cleanup/Confirmation Sampling – 10/05/21



←Looking West  
Looking East→

Soil removal completed  
adjacent to surficial soil

Confirmation soil samples  
collected following soil removal

No residual petroleum  
hydrocarbon staining or odor  
observed

PID readings:

SS-01 @ 0.75' – 2.1 ppm-v

SS-02 @ 0.75' – 4.2 ppm-v

SS-03 @ 1' – 2.0 ppm-v

SS-04 @ 1' – 1.8 ppm-v

SS-05 @ 1' – 4.9 ppm-v

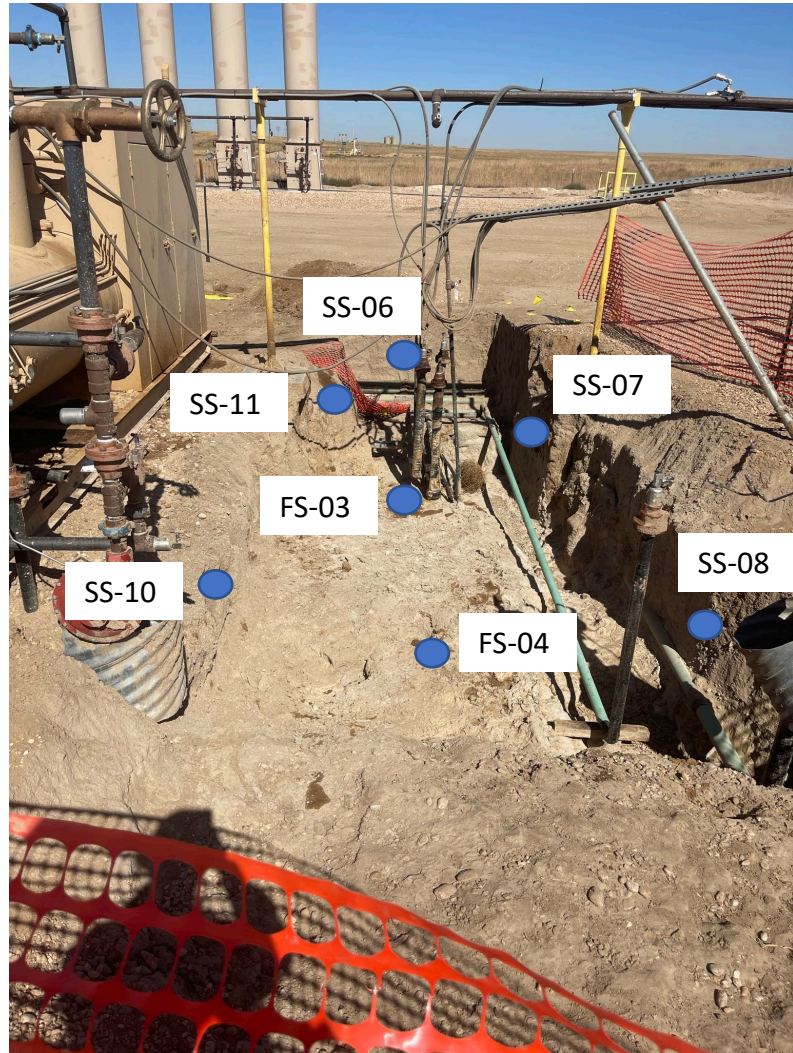
FS-01 @ 1.5' – 7.8 ppm-v

FS-02 @ 1.5' – 8.1 ppm-v





# Initial Cleanup/Confirmation Sampling – 10/05/21



← Looking North  
Looking South →

Soil removal completed  
adjacent to former separator  
location

Confirmation soil samples  
collected following soil removal

No residual petroleum  
hydrocarbon staining observed,  
slight odor observed at base of  
excavation

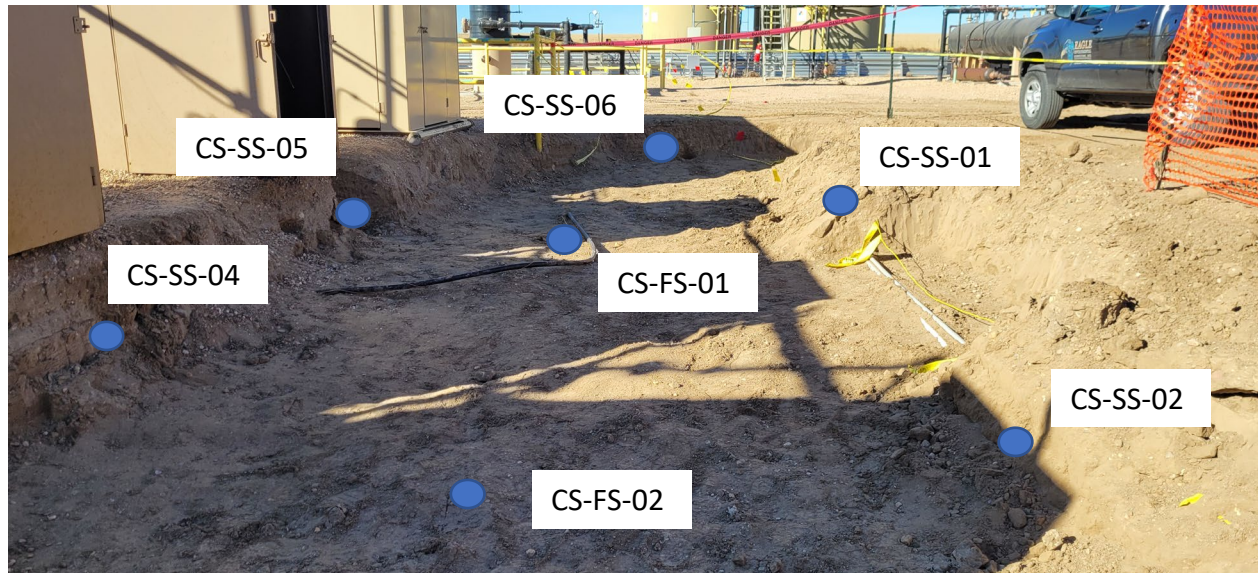
PID readings:

SS-06 @ 3' – 3.6 ppm-v  
SS-07 @ 3.5' – 1.1 ppm-v  
SS-08 @ 3.5' – 1.4 ppm-v  
SS-09 @ 3.5' – 3.3 ppm-v  
SS-10 @ 4' – 0.7 ppm-v  
SS-11 @ 4' – 1.6 ppm-v  
FS-03 @ 5' – 6.7 ppm-v  
FS-04 @ 5.5' – 2.2 ppm-v





# Over-excavation/Confirmation Sampling – 11/05/21



← Looking West

Additional soil removed  
adjacent to SS-02, SS-05, FS-01,  
and FS-02

Confirmation soil samples  
collected following soil removal

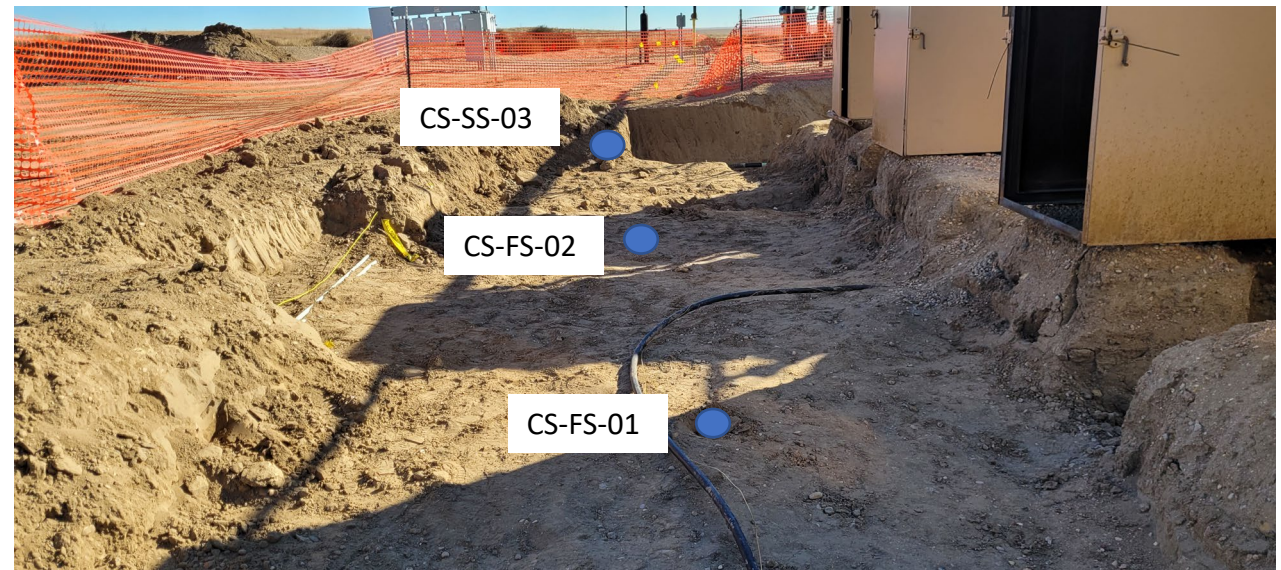
No residual petroleum  
hydrocarbon staining or odor

Looking East →

Additional soil removed  
adjacent to SS-02, SS-05, FS-01,  
and FS-02

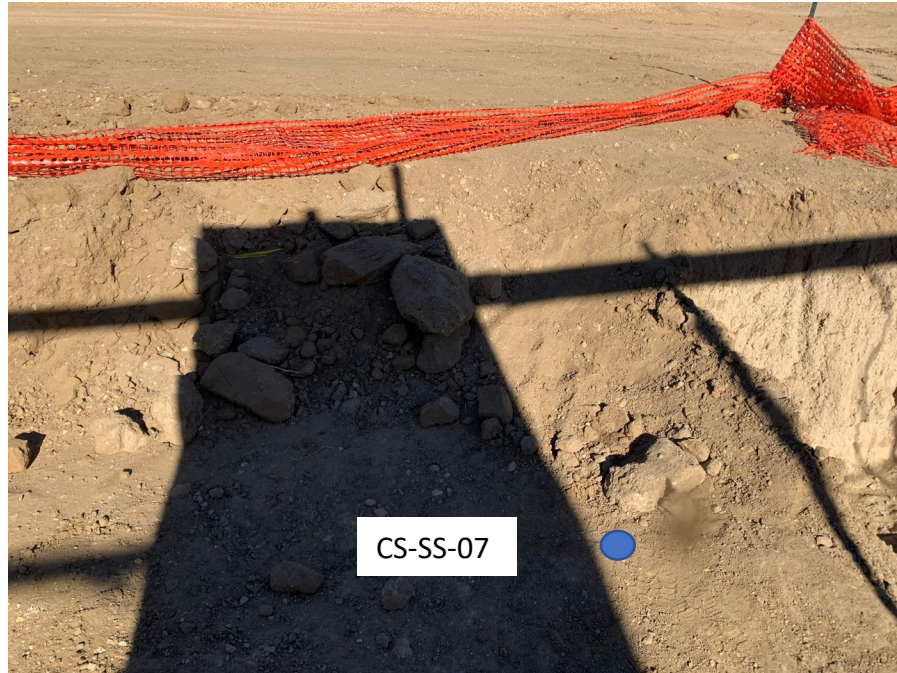
PID readings:

CS-SS-01 @ 1' – 1.3 ppm-v  
CS-SS-02 @ 1' – 2.5 ppm-v  
CS-SS-03 @ 1' – 13.9 ppm-v  
CS-SS-04 @ 1' – 4.4 ppm-v  
CS-SS-05 @ 1' – 3.8 ppm-v  
CS-SS-06 @ 1' – 5.5 ppm-v  
CS-FS-01 @ 2' – 6.3 ppm-v  
CS-FS-02 @ 2' – 5.7 ppm-v





# Over-excavation/Confirmation Sampling – 12/05/21



← Looking North

Additional soil removed  
adjacent to CS-SS-03

Looking North →

Additional soil removed  
adjacent CS-FS-03

Confirmation soil samples  
collected following soil removal

No residual petroleum  
hydrocarbon staining observed,  
slight odor observed

PID readings:

CS-SS-07 @ 1' – 7.5 ppm-v

CS-SS-08 @ 7.5' – 2.3 ppm-v

CS-SS-09 @ 7.5' – 9.6 ppm-v

CS-SS-10 @ 7.5' – 1.4 ppm-v

CS-FS-05 @ 8.5' – 5.6 ppm-v





## **ATTACHMENT B**

### **Laboratory Analytical Reports**



October 15, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - Fidncial  
6-62-34\_35SWSW**

**Project Number - -**

Attached are your analytical results for Bonanza - Fidncial 6-62-34\_35SWSW received by Origins Laboratory, Inc. October 05, 2021. This project is associated with Origins project number Y110090-01.

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: -

Project: Bonanza - Fidncial 6-62-34\_35SWSW

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@0.75'	Y110090-01	Soil	October 5, 2021 12:10	10/05/2021 14:51
SS-02@0.75'	Y110090-02	Soil	October 5, 2021 12:12	10/05/2021 14:51
SS-03@1'	Y110090-03	Soil	October 5, 2021 12:14	10/05/2021 14:51
SS-04@1'	Y110090-04	Soil	October 5, 2021 12:16	10/05/2021 14:51
SS-05@1'	Y110090-05	Soil	October 5, 2021 12:17	10/05/2021 14:51
FS-01@1.5'	Y110090-06	Soil	October 5, 2021 12:18	10/05/2021 14:51
FS-02@1.5'	Y110090-07	Soil	October 5, 2021 12:19	10/05/2021 14:51
SS-06@3'	Y110090-08	Soil	October 5, 2021 12:20	10/05/2021 14:51
SS-07@3.5'	Y110090-09	Soil	October 5, 2021 12:22	10/05/2021 14:51
SS-08@3.5'	Y110090-10	Soil	October 5, 2021 12:24	10/05/2021 14:51
SS-09@3.5'	Y110090-11	Soil	October 5, 2021 12:26	10/05/2021 14:51
SS-10@4'	Y110090-12	Soil	October 5, 2021 12:28	10/05/2021 14:51
SS-11@4'	Y110090-13	Soil	October 5, 2021 12:30	10/05/2021 14:51
FS-03@5'	Y110090-14	Soil	October 5, 2021 12:32	10/05/2021 14:51

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: -

Project: Bonanza - Fidncial 6-62-34\_35SWSW

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS-04@5.5'	Y110090-15	Soil	October 5, 2021 12:34	10/05/2021 14:51

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

4110090

page 1 of 2

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge CO, 80033  
Telephone Number: 303-433-0479  
Email Address: mce@eagle-environment.com

Project Manager: Martin Eckert III  
Project Name: Fidncial 6-62-34\_35SWSW  
Project Number: -  
Samples Collected By: MCE

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Groundwater		Soil	At Summit #	Other	Other	
SS-01 @ 0.75'	10/5/21	1210	2	X				X					
SS-02 @ 0.75'		1212											
SS-03 @ 1'		1214											
SS-04 @ 1'		1216											
SS-05 @ 1'		1217											
FS-01 @ 1.5'		1218											
FS-02 @ 1.5'		1219											
SS-06 @ 3'		1220											
SS-07 @ 3.5'		1222											
SS-08 @ 3.5'		1224											
Relinquished By: <i>Boye W. W.</i>	Date: 10/5/21	Time: 1451		Received By: <i>[Signature]</i>	Date: 10/5/21	Time: 1451		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard					

\* Bill to Luke

Temp Received: 1.0

Date Results Needed

Bonanza

Origins Laboratory, Inc.

*Jordan A. Merrill*

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

www.originslaboratory.com

page 2 of 2

**ORIGINS**  
LABORATORY, INC

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge CO 80033  
Telephone Number: 303.433-0479  
Email Address: info@originslaboratory.com

Project Manager: Martin Eckert III  
Project Name: Fidncial 6-62-34\_35 SWSW  
Project Number: -  
Samples Collected By: AN/BRW

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil		
SS-04@3.5'	10/5/21	1226	2	X							1
SS-10@4'		1228	1								2
SS-11@4'		1230	1								3
FS-03@5'		1232	1								4
FS-04@5.5'		1234	1								5
											6
											7
											8
											9
											10

Relinquished By: *Danya White* Date: 10/5/21 Time: 1451  
Relinquished By: Date: Time: 1451

Received By: *[Signature]* Date: 10/5/21 Time: 1451  
Received By: Date: Time: 1451

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Temp Received: 10 Date Results Needed: 10

Origins Laboratory, Inc.

*Jordan A. Merrill*

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 1110096

Client: Eagle

Client Project ID: Fidncial 6-62, 34 35SWSW

Checklist Completed by: KH

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

Date/time completed: 10/5/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 11.0 °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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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): dm

Date/Time Reviewed: 10-6-21

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-01@0.75'

10/5/2021 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/06/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 59.0 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0514	KDK	10/05/2021	10/07/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 121 % 70-130 " " "  
Surrogate: Toluene-d8 88.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00105	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	
2-Methylnaphthalene	0.00131	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-01@0.75'

10/5/2021 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y110090-01 (Soil)**

**PAH by 8270D SIM**

Anthracene	ND	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.00161	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	0.000801	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	103 %	33-115			"	"	"
Surrogate: 4-Terphenyl-d14	111 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	77.1 %	29-110			"	"	"

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-02@0.75'

10/5/2021 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	57.4	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 61.2 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0514	KDK	10/05/2021	10/07/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 85.6 % 70-130 " " "  
Surrogate: Toluene-d8 96.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	0.012	0.00335	mg/Kg	5	L578039		10/07/2021	10/07/2021	
2-Methylnaphthalene	0.0108	0.00335	"	"	"		"	"	
Acenaphthene	0.00283	0.00335	"	"	"		"	"	J

Origins Laboratory, Inc.

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

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

Martin C Eckert III  
Project Number: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-02@0.75'

10/5/2021 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y110090-02 (Soil)**

**PAH by 8270D SIM**

Anthracene	ND	0.00335	mg/Kg	5	L578039		10/07/2021	10/07/2021	
Benzo(a)anthracene	ND	0.00335	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00335	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00335	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00335	"	"	"		"	"	
Chrysene	0.0105	0.00335	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00335	"	"	"		"	"	
Fluoranthene	ND	0.00335	"	"	"		"	"	
Fluorene	0.0185	0.00335	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"		"	"	
Naphthalene	ND	0.00335	"	"	"		"	"	
Pyrene	ND	0.00335	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	88.9 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	98.2 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	72 %	29-110			"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-03@1'

10/5/2021 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 63.2 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0514	KDK	10/05/2021	10/07/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "  
Surrogate: Toluene-d8 89.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-03@1'

10/5/2021 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y110090-03 (Soil)**

**PAH by 8270D SIM**

Acenaphthene	ND	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	
Anthracene	0.000509	0.00067	"	"	"		"	"	J
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.00299	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.000627	0.00067	"	"	"		"	"	J

Surrogate: 2-Fluorobiphenyl	88.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	100 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	72.8 %	29-110	"	"	"

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-04@1'

10/5/2021 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 62.4 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.2 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.7 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000505	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	J
2-Methylnaphthalene	0.000554	0.00067	"	"	"		"	"	J
Acenaphthene	ND	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-04@1'

10/5/2021 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y110090-04 (Soil)**

**PAH by 8270D SIM**

Anthracene	ND	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	102 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	115 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	81.6 %	29-110		"	"	"

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-05@1'

10/5/2021 12:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	945	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	
Residual Range Organics (C28-C40)	661	100	"	"	"	KDK	"	"	

Surrogate: o-Terphenyl 92.6 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.0500	mg/kg	25	B1J0612	KDK	10/06/2021	10/11/2021	R-01, U
1,3,5-Trimethylbenzene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Benzene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Toluene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Gasoline Range Hydrocarbons	79.2	5.00	"	"	"	KDK	"	"	
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	R-01, U

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "  
Surrogate: Toluene-d8 106 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.8 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	2.09	0.0067	mg/Kg	10	L578039		10/07/2021	10/07/2021	
2-Methylnaphthalene	1.37	0.0067	"	"	"		"	"	
Acenaphthene	0.124	0.0067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-05@1'

10/5/2021 12:17:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y110090-05 (Soil)

## PAH by 8270D SIM

Anthracene	0.0283	0.0067	mg/Kg	10	L578039	10/07/2021	10/07/2021	
Benzo(a)anthracene	0.0324	0.0067	"	"	"	"	"	
Benzo(a)pyrene	0.00482	0.0067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.0169	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00294	0.0067	"	"	"	"	"	J
Chrysene	0.226	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0067	"	"	"	"	"	
Fluoranthene	0.011	0.0067	"	"	"	"	"	
Fluorene	0.528	0.0067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0067	"	"	"	"	"	
Naphthalene	0.181	0.0067	"	"	"	"	"	
Pyrene	0.0804	0.0067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	91.1 %	33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	92.6 %	33-122			"	"	"	
Surrogate: Nitrobenzene-d5	73.9 %	29-110			"	"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

FS-01@1.5'

10/5/2021 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-06 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	160	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	
Residual Range Organics (C28-C40)	160	100	"	"	"	KDK	"	"	

Surrogate: o-Terphenyl 65.3 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	1.54	0.200	"	"	"	KDK	"	"	
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.5 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.5 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	0.407	0.00335	mg/Kg	5	L578039		10/07/2021	10/07/2021	
2-Methylnaphthalene	0.278	0.00335	"	"	"		"	"	
Acenaphthene	0.0325	0.00335	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

FS-01@1.5'

10/5/2021 12:18:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y110090-06 (Soil)**

**PAH by 8270D SIM**

Anthracene	0.0111	0.00335	mg/Kg	5	L578039		10/07/2021	10/07/2021	
Benzo(a)anthracene	0.00866	0.00335	"	"	"		"	"	
Benzo(a)pyrene	0.00177	0.00335	"	"	"		"	"	J
Benzo(b)fluoranthene	0.00357	0.00335	"	"	"		"	"	
Benzo(k)fluoranthene	0.00148	0.00335	"	"	"		"	"	J
Chrysene	0.0703	0.00335	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00335	"	"	"		"	"	
Fluoranthene	0.00324	0.00335	"	"	"		"	"	J
Fluorene	0.169	0.00335	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"		"	"	
Naphthalene	0.0258	0.00335	"	"	"		"	"	
Pyrene	0.0265	0.00335	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl  
Surrogate: 4-Terphenyl-d14  
Surrogate: Nitrobenzene-d5

91.6 %	33-115	"	"	"
103 %	33-122	"	"	"
70.5 %	29-110	"	"	"

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

FS-02@1.5'

10/5/2021 12:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-07 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	503	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	
Residual Range Organics (C28-C40)	368	100	"	"	"	KDK	"	"	

Surrogate: o-Terphenyl 54.1 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	0.385	0.200	"	"	"	KDK	"	"	
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.6 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 95.1 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	0.338	0.00335	mg/Kg	5	L578039		10/07/2021	10/07/2021	
2-Methylnaphthalene	0.206	0.00335	"	"	"		"	"	
Acenaphthene	0.0676	0.00335	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

FS-02@1.5'

10/5/2021 12:19:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y110090-07 (Soil)

## PAH by 8270D SIM

Anthracene	0.0131	0.00335	mg/Kg	5	L578039	10/07/2021	10/07/2021	
Benzo(a)anthracene	0.0147	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00155	0.00335	"	"	"	"	"	J
Benzo(b)fluoranthene	0.00566	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	0.00215	0.00335	"	"	"	"	"	J
Chrysene	0.109	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00335	"	"	"	"	"	
Fluoranthene	0.00514	0.00335	"	"	"	"	"	
Fluorene	0.274	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00335	"	"	"	"	"	
Pyrene	0.0402	0.00335	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	88.7 %	33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	95.7 %	33-122			"	"	"	
Surrogate: Nitrobenzene-d5	70.4 %	29-110			"	"	"	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-06@3'

10/5/2021 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-08 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 62.8 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.4 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 93.1 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000447	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	J
2-Methylnaphthalene	0.00052	0.00067	"	"	"		"	"	J
Acenaphthene	ND	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-06@3'

10/5/2021 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y110090-08 (Soil)**

**PAH by 8270D SIM**

Anthracene	0.000345	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	J
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.000488	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.00395	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	0.00231	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	97.9 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	103 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	76.7 %	29-110			"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-07@3.5'

10/5/2021 12:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-09 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 63.9 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/12/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.4 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.1 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-07@3.5'

10/5/2021 12:22:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y110090-09 (Soil)**

**PAH by 8270D SIM**

Acenaphthene	ND	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000295	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.000554	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000959	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	95.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	105 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	76.9 %	29-110	"	"	"

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-08@3.5'

10/5/2021 12:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-10 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 67.0 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/12/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.9 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.8 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-08@3.5'

10/5/2021 12:24:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y110090-10 (Soil)**

**PAH by 8270D SIM**

Acenaphthene	ND	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000641	0.00067	"	"	"		"	"	J
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	0.000569	0.00067	"	"	"		"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	96.1 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	103 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	75.5 %	29-110		"	"	"

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-09@3.5'

10/5/2021 12:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-11 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 59.4 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/12/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.2 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.2 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000413	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	J
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-09@3.5'

10/5/2021 12:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y110090-11 (Soil)**

**PAH by 8270D SIM**

Anthracene	ND	0.00067	mg/Kg	1	L578039		10/07/2021	10/07/2021	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	91.8 %	33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	112 %	33-122			"	"	"	
Surrogate: Nitrobenzene-d5	76.7 %	29-110			"	"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-10@4'

10/5/2021 12:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-12 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 59.8 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/12/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.2 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 93.4 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L578131		10/08/2021	10/08/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-10@4'

10/5/2021 12:28:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y110090-12 (Soil)

## PAH by 8270D SIM

Acenaphthene	ND	0.00067	mg/Kg	1	L578131		10/08/2021	10/08/2021	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000274	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.000319	0.00067	"	"	"		"	"	J
Naphthalene	0.000603	0.00067	"	"	"		"	"	JB
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	81.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	78.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	71.8 %	29-110	"	"	"

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-11@4'  
10/5/2021 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y110090-13 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 58.8 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/12/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.6 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.3 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00466	0.00067	mg/Kg	1	L578131		10/08/2021	10/08/2021	
2-Methylnaphthalene	0.000533	0.00067	"	"	"		"	"	J
Acenaphthene	ND	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

SS-11@4'

10/5/2021 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y110090-13 (Soil)

## PAH by 8270D SIM

Anthracene	ND	0.00067	mg/Kg	1	L578131		10/08/2021	10/08/2021	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000565	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.00057	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000733	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	0.000835	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.000479	0.00067	"	"	"		"	"	J
Naphthalene	0.000682	0.00067	"	"	"		"	"	B
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl  
Surrogate: 4-Terphenyl-d14  
Surrogate: Nitrobenzene-d5

75.1 % 33-115  
77.5 % 33-122  
65.7 % 29-110

" "  
" "  
" "

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

FS-03@5'  
10/5/2021 12:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y110090-14 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 60.7 % 50-150 " " "

### GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/12/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.9 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.0 % 70-130 " " "

### PAH by 8270D SIM

1-Methylnaphthalene	0.0152	0.00067	mg/Kg	1	L578131		10/08/2021	10/08/2021	
2-Methylnaphthalene	0.0056	0.00067	"	"	"		"	"	
Acenaphthene	0.00218	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

FS-03@5'

10/5/2021 12:32:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y110090-14 (Soil)**

**PAH by 8270D SIM**

Anthracene	0.000789	0.00067	mg/Kg	1	L578131		10/08/2021	10/08/2021	
Benzo(a)anthracene	0.000851	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000557	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.000656	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.0075	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.000394	0.00067	"	"	"		"	"	J
Fluorene	0.0124	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00318	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl  
Surrogate: 4-Terphenyl-d14  
Surrogate: Nitrobenzene-d5

69.9 % 33-115  
71.7 % 33-122  
62 % 29-110

" "  
" "  
" "

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

FS-04@5.5'

10/5/2021 12:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y110090-15 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	KDK	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 60.3 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	KDK	10/06/2021	10/12/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.3 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 93.7 % 70-130 " " "

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00695	0.00067	mg/Kg	1	L578131		10/08/2021	10/08/2021	
2-Methylnaphthalene	0.0026	0.00067	"	"	"		"	"	
Acenaphthene	0.00159	0.00067	"	"	"		"	"	

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

FS-04@5.5'

10/5/2021 12:34:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
Y110090-15 (Soil)

**PAH by 8270D SIM**

Anthracene	0.000536	0.00067	mg/Kg	1	L578131		10/08/2021	10/08/2021	J
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000372	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.000456	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.00419	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	0.00787	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00167	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl  
Surrogate: 4-Terphenyl-d14  
Surrogate: Nitrobenzene-d5

75 % 33-115  
78.9 % 33-122  
69 % 29-110

" "  
" "  
" "

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

**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
<b>Batch B1J0514 - EPA 5030 (soil)</b>										
<b>Blank (B1J0514-BLK1)</b>					Prepared: 10/05/2021 Analyzed: 10/06/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

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**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
<b>Batch B1J0514 - EPA 5030 (soil)</b>										
<b>LCS (B1J0514-BS1)</b>					Prepared: 10/05/2021 Analyzed: 10/06/2021					
1,2,4-Trimethylbenzene	0.0463	0.00200	mg/kg	0.0500		92.6	70-130			
Naphthalene	0.0447	0.0100	"	0.0500		89.4	70-130			
1,3,5-Trimethylbenzene	0.0445	0.00200	"	0.0500		89.1	70-130			
Benzene	0.0491	0.00200	"	0.0500		98.2	70-130			
Ethylbenzene	0.0438	0.00200	"	0.0500		87.6	70-130			
m,p-Xylene	0.0913	0.00400	"	0.100		91.3	70-130			
o-Xylene	0.0452	0.00200	"	0.0500		90.3	70-130			
Toluene	0.0479	0.00200	"	0.0500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

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**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 B1J0514 - EPA 5030 (soil)**

Matrix Spike (B1J0514-MS1)		Source: Y110024-01			Prepared: 10/05/2021 Analyzed: 10/06/2021					
1,2,4-Trimethylbenzene	0.0432	0.00200	mg/kg	0.0500	ND	86.3	70-130			
Naphthalene	0.0431	0.0100	"	0.0500	ND	86.2	70-130			
1,3,5-Trimethylbenzene	0.0413	0.00200	"	0.0500	ND	82.6	70-130			
Benzene	0.0470	0.00200	"	0.0500	ND	94.1	70-130			
Ethylbenzene	0.0412	0.00200	"	0.0500	ND	82.4	70-130			
m,p-Xylene	0.0864	0.00400	"	0.100	ND	86.4	70-130			
o-Xylene	0.0431	0.00200	"	0.0500	ND	86.1	70-130			
Toluene	0.0452	0.00200	"	0.0500	ND	90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

Origins Laboratory, Inc.



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Project: Bonanza - Fidncial 6-62-34\_35SWSW

**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
<b>Batch B1J0514 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1J0514-MSD1)</b>		<b>Source: Y110024-01</b>			Prepared: 10/05/2021 Analyzed: 10/06/2021					
1,2,4-Trimethylbenzene	0.0438	0.00200	mg/kg	0.0500	ND	87.6	70-130	1.52	20	
Naphthalene	0.0426	0.0100	"	0.0500	ND	85.2	70-130	1.21	20	
1,3,5-Trimethylbenzene	0.0419	0.00200	"	0.0500	ND	83.8	70-130	1.35	20	
Benzene	0.0493	0.00200	"	0.0500	ND	98.6	70-130	4.73	20	
Ethylbenzene	0.0432	0.00200	"	0.0500	ND	86.4	70-130	4.64	20	
m,p-Xylene	0.0892	0.00400	"	0.100	ND	89.2	70-130	3.19	20	
o-Xylene	0.0445	0.00200	"	0.0500	ND	89.1	70-130	3.38	20	
Toluene	0.0475	0.00200	"	0.0500	ND	95.0	70-130	5.01	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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**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
<b>Batch B1J0612 - EPA 5030 (soil)</b>										
<b>Blank (B1J0612-BLK1)</b>					Prepared: 10/06/2021 Analyzed: 10/11/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.0	70-130			

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**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
<b>Batch B1J0612 - EPA 5030 (soil)</b>										
<b>LCS (B1J0612-BS1)</b>					Prepared: 10/06/2021 Analyzed: 10/11/2021					
1,2,4-Trimethylbenzene	0.0493	0.00200	mg/kg	0.0500		98.7	70-130			
Naphthalene	0.0520	0.0100	"	0.0500		104	70-130			
1,3,5-Trimethylbenzene	0.0469	0.00200	"	0.0500		93.8	70-130			
Benzene	0.0432	0.00200	"	0.0500		86.3	70-130			
Ethylbenzene	0.0460	0.00200	"	0.0500		92.1	70-130			
m,p-Xylene	0.0953	0.00400	"	0.100		95.3	70-130			
o-Xylene	0.0478	0.00200	"	0.0500		95.6	70-130			
Toluene	0.0480	0.00200	"	0.0500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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**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
<b>Batch B1J0612 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B1J0612-MS1)</b>		<b>Source: Y110096-01</b>			Prepared: 10/06/2021 Analyzed: 10/11/2021					
1,2,4-Trimethylbenzene	0.00744	0.00200	mg/kg	0.0500	ND	14.9	70-130			QM-07
Naphthalene	0.00718	0.0100	"	0.0500	ND	14.4	70-130			QM-07, U
1,3,5-Trimethylbenzene	0.0373	0.00200	"	0.0500	ND	74.7	70-130			
Benzene	0.0403	0.00200	"	0.0500	ND	80.5	70-130			
Ethylbenzene	0.0377	0.00200	"	0.0500	ND	75.4	70-130			
m,p-Xylene	0.0434	0.00400	"	0.100	ND	43.4	70-130			QM-07
o-Xylene	0.0391	0.00200	"	0.0500	ND	78.2	70-130			
Toluene	0.0400	0.00200	"	0.0500	ND	80.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	70-130			

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Martin C Eckert III  
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## 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
<b>Batch B1J0612 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1J0612-MSD1)</b>		<b>Source: Y110096-01</b>			Prepared: 10/06/2021 Analyzed: 10/11/2021					
1,2,4-Trimethylbenzene	0.0114	0.00200	mg/kg	0.0500	ND	22.8	70-130	42.2	20	QM-07, QR-03
Naphthalene	0.00824	0.0100	"	0.0500	ND	16.5	70-130	13.7	20	QM-07, U
1,3,5-Trimethylbenzene	0.0400	0.00200	"	0.0500	ND	80.1	70-130	6.98	20	
Benzene	0.0430	0.00200	"	0.0500	ND	86.0	70-130	6.54	20	
Ethylbenzene	0.0405	0.00200	"	0.0500	ND	81.0	70-130	7.16	20	
m,p-Xylene	0.0529	0.00400	"	0.100	ND	52.9	70-130	19.8	20	QM-07
o-Xylene	0.0418	0.00200	"	0.0500	ND	83.6	70-130	6.62	20	
Toluene	0.0430	0.00200	"	0.0500	ND	86.0	70-130	7.28	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	70-130			

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**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 B1J0613 - EPA 3550B**

**Blank (B1J0613-BLK1)**

Prepared: 10/06/2021 Analyzed: 10/06/2021

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	15		"	25.0		61.7	50-150			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III

Project Number: -

Project: Bonanza - Fidncial 6-62-34\_35SWSW

## 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 B1J0613 - EPA 3550B

### LCS (B1J0613-BS1)

Prepared: 10/06/2021 Analyzed: 10/11/2021

Diesel (C10-C28)	706	50.0	mg/kg	1000		70.6	70-130			
Residual Range Organics (C28-C40)	917	200	"	1000		91.7	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.0	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: -

Project: Bonanza - Fidncial 6-62-34\_35SWSW

## 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 B1J0613 - EPA 3550B

Matrix Spike (B1J0613-MS1)		Source: Y110096-01			Prepared: 10/06/2021 Analyzed: 10/07/2021					
Diesel (C10-C28)	606	50.0	mg/kg	1000	ND	60.6	70-130			QM-07
Residual Range Organics (C28-C40)	755	200	"	1000	ND	75.5	70-130			
Surrogate: o-Terphenyl	31		"	50.0		61.9	50-150			

Origins Laboratory, Inc.

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Project: Bonanza - Fidncial 6-62-34\_35SWSW

## 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
<b>Batch B1J0613 - EPA 3550B</b>										
<b>Matrix Spike Dup (B1J0613-MSD1)</b>										
					<b>Source: Y110096-01</b>					Prepared: 10/06/2021 Analyzed: 10/07/2021
Diesel (C10-C28)	736	50.0	mg/kg	1000	ND	73.6	70-130	19.4	35	
Residual Range Organics (C28-C40)	943	200	"	1000	ND	94.3	70-130	22.1	35	
Surrogate: o-Terphenyl	43		"	50.0		86.4	50-150			

Origins Laboratory, Inc.



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## 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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## PAH by 8270D SIM - Quality Control

### Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch L578131 - 3550B

MSD (L 97918-MSD-L578131)		Source: Y110090-12			Prepared: 10/08/2021 Analyzed: 10/08/2021					
Chrysene	0.128	0.00027	mg/Kg	0.167	<0.000270	76.6	30-130	2.3	30	
Dibenz(a,h)anthracene	0.14	0.00036	"	0.167	<0.000360	83.8	30-130	2.1	30	
Fluoranthene	0.133	0.00039	"	0.167	<0.000390	79.6	30-130	7	30	
Fluorene	0.124	0.00029	"	0.167	<0.000290	74.2	30-130	3.2	30	
Indeno(1,2,3-cd)pyrene	0.136	0.00029	"	0.167	0.000319	81.4	30-130	6.8	30	
Benzo(a)anthracene	0.131	0.00041	"	0.167	<0.000410	78.4	30-130	6.2	30	
Pyrene	0.13	0.00059	"	0.167	<0.000590	77.8	30-130	6.3	30	
Naphthalene	0.109	0.000467	"	0.167	0.000603	65.2	30-130	1.8	30	
Benzo(k)fluoranthene	0.126	0.00013	"	0.167	<0.000130	75.4	30-130	4	30	
Benzo(a)pyrene	0.132	0.00014	"	0.167	0.000274	79	30-130	3.8	30	
Anthracene	0.126	0.00033	"	0.167	<0.000330	75.4	30-130	4.8	30	
Acenaphthene	0.119	0.0003	"	0.167	<0.000300	71.2	30-130	0.8	30	
2-Methylnaphthalene	0.115	0.00039	"	0.167	<0.000390	68.8	30-130	2.6	30	
1-Methylnaphthalene	0.116	0.00033	"	0.167	<0.000330	69.4	30-130	2.6	30	
Benzo(b)fluoranthene	0.145	0.00021	"	0.167	<0.000210	86.8	30-130	4.9	30	
Surrogate: Nitrobenzene-d5	72.3		"	0.333	239	72.3	29-110			
Surrogate: 4-Terphenyl-d14	83.7		"	0.333	262	83.7	33-122			
Surrogate: 2-Fluorobiphenyl	84.9		"	0.333	272	84.9	33-115			

MS (L 97918-MS-L578131)		Source: Y110090-12			Prepared: 10/08/2021 Analyzed: 10/08/2021					
Acenaphthene	0.118	0.0003	mg/Kg	0.163	<0.000300	72.3	30-130			
1-Methylnaphthalene	0.113	0.00033	"	0.163	<0.000330	69.3	30-130			

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Project: Bonanza - Fidncial 6-62-34\_35SWSW

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L578131 - 3550B**

MS (L 97918-MS-L578131)		Source: Y110090-12			Prepared: 10/08/2021 Analyzed: 10/08/2021					
Indeno(1,2,3-cd)pyrene	0.127	0.00029	mg/Kg	0.163	0.000319	77.9	30-130			
Pyrene	0.122	0.00059	"	0.163	<0.000590	74.8	30-130			
Naphthalene	0.107	0.000467	"	0.163	0.000603	65.6	30-130			
2-Methylnaphthalene	0.112	0.00039	"	0.163	<0.000390	68.7	30-130			
Fluorene	0.12	0.00029	"	0.163	<0.000290	73.6	30-130			
Fluoranthene	0.124	0.00039	"	0.163	<0.000390	76	30-130			
Dibenz(a,h)anthracene	0.137	0.00036	"	0.163	<0.000360	84	30-130			
Chrysene	0.125	0.00027	"	0.163	<0.000270	76.6	30-130			
Benzo(k)fluoranthene	0.121	0.00013	"	0.163	<0.000130	74.2	30-130			
Benzo(b)fluoranthene	0.138	0.00021	"	0.163	<0.000210	84.6	30-130			
Benzo(a)pyrene	0.127	0.00014	"	0.163	0.000274	77.9	30-130			
Benzo(a)anthracene	0.123	0.00041	"	0.163	<0.000410	75.4	30-130			
Anthracene	0.12	0.00033	"	0.163	<0.000330	73.6	30-130			
Surrogate: 2-Fluorobiphenyl	87.1		"	0.327	272	87.1	33-115			
Surrogate: 4-Terphenyl-d14	81.9		"	0.327	262	81.9	33-122			
Surrogate: Nitrobenzene-d5	73		"	0.327	239	73	29-110			

**LCS (LCS-L578131)**

Prepared: 10/08/2021 Analyzed: 10/08/2021

Benzo(b)fluoranthene	0.131	0.00021	mg/Kg	0.167		78.4	30-130
Naphthalene	0.11	0.000467	"	0.167		65.8	30-130
1-Methylnaphthalene	0.115	0.00033	"	0.167		68.8	30-130
Fluorene	0.123	0.00029	"	0.167		73.6	30-130
Fluoranthene	0.133	0.00039	"	0.167		79.6	30-130
Dibenz(a,h)anthracene	0.161	0.00036	"	0.167		96.4	30-130
Chrysene	0.127	0.00027	"	0.167		76	30-130
Benzo(k)fluoranthene	0.145	0.00013	"	0.167		86.8	30-130
Benzo(a)pyrene	0.127	0.00014	"	0.167		76	30-130

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L578131 - 3550B**

**LCS (LCS-L578131)**

Prepared: 10/08/2021 Analyzed: 10/08/2021

Benzo(a)anthracene	0.128	0.00041	mg/Kg	0.167		76.6	30-130			
Anthracene	0.122	0.00033	"	0.167		73	30-130			
Acenaphthene	0.119	0.0003	"	0.167		71.2	30-130			
Pyrene	0.131	0.00059	"	0.167		78.4	30-130			
2-Methylnaphthalene	0.115	0.00039	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.156	0.00029	"	0.167		93.4	30-130			
Surrogate: 4-Terphenyl-d14	83.4		"	0.333		83.4	33-122			
Surrogate: 2-Fluorobiphenyl	84.3		"	0.333		84.3	33-115			
Surrogate: Nitrobenzene-d5	73.5		"	0.333		73.5	29-110			

**LRB (LRB-L578131)**

Prepared: 10/08/2021 Analyzed: 10/08/2021

Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Naphthalene	0.000473	0.00067	"				-			J
Benzo(b)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	76.5		"	0.333		76.5	29-110			

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L578131 - 3550B

LRB (LRB-L578131)

Prepared: 10/08/2021 Analyzed: 10/08/2021

Surrogate: 4-Terphenyl-d14	83.7		mg/Kg	0.333		83.7	33-122			
Surrogate: 2-Fluorobiphenyl	81.9		"	0.333		81.9	33-115			

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L578039 - 3550B**

MSD (L 97939-MSD-L578039)		Source: 97939			Prepared: 10/07/2021 Analyzed: 10/07/2021					
Benzo(k)fluoranthene	0.0958	0.00013	mg/Kg	0.166	0.00258	56.1	30-130	4.9	30	
Naphthalene	0.11	0.000467	"	0.166	<0.000467	66.2	30-130	7.5	30	
Indeno(1,2,3-cd)pyrene	0.157	0.00029	"	0.166	0.00707	90.3	30-130	17.4	30	
Fluorene	0.123	0.00029	"	0.166	<0.000290	74	30-130	6.7	30	
1-Methylnaphthalene	0.116	0.00033	"	0.166	<0.000330	69.8	30-130	7.1	30	
Fluoranthene	0.128	0.00039	"	0.166	0.00979	71.2	30-130	9.8	30	
Chrysene	0.137	0.00027	"	0.166	0.0101	76.4	30-130	9.9	30	
Pyrene	0.125	0.00059	"	0.166	0.0159	65.7	30-130	8.3	30	
Benzo(b)fluoranthene	0.0869	0.00021	"	0.166	0.00757	47.7	30-130	3.6	30	
Benzo(a)pyrene	0.157	0.00014	"	0.166	0.0124	87.1	30-130	5.2	30	
Benzo(a)anthracene	0.126	0.00041	"	0.166	0.00753	71.3	30-130	8.2	30	
Anthracene	0.122	0.00033	"	0.166	0.00051	73.4	30-130	7.6	30	
Acenaphthene	0.12	0.0003	"	0.166	<0.000300	72.2	30-130	6	30	
2-Methylnaphthalene	0.112	0.00039	"	0.166	0.000684	67	30-130	7.4	30	
Dibenz(a,h)anthracene	0.175	0.00036	"	0.166	0.000918	105	30-130	25.8	30	
Surrogate: Nitrobenzene-d5	75		"	0.332	234	75	29-110			
Surrogate: 2-Fluorobiphenyl	96.6		"	0.332	296	96.6	33-115			
Surrogate: 4-Terphenyl-d14	95.7		"	0.332	292	95.7	33-122			

MS (L 97939-MS-L578039)		Source: 97939			Prepared: 10/07/2021 Analyzed: 10/07/2021					
Chrysene	0.124	0.00027	mg/Kg	0.165	0.0101	69	30-130			
Benzo(b)fluoranthene	0.0901	0.00021	"	0.165	0.00757	50	30-130			
1-Methylnaphthalene	0.108	0.00033	"	0.165	<0.000330	65.4	30-130			
2-Methylnaphthalene	0.104	0.00039	"	0.165	0.000684	62.6	30-130			
Acenaphthene	0.113	0.0003	"	0.165	<0.000300	68.4	30-130			
Anthracene	0.113	0.00033	"	0.165	0.00051	68.4	30-130			
Fluoranthene	0.116	0.00039	"	0.165	0.00979	64.3	30-130			

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L578039 - 3550B**

MS (L 97939-MS-L578039)		Source: 97939			Prepared: 10/07/2021 Analyzed: 10/07/2021					
Benzo(a)pyrene	0.149	0.00014	mg/Kg	0.165	0.0124	82.7	30-130			
Pyrene	0.115	0.00059	"	0.165	0.0159	60	30-130			
Benzo(k)fluoranthene	0.0912	0.00013	"	0.165	0.00258	53.7	30-130			
Dibenz(a,h)anthracene	0.227	0.00036	"	0.165	0.000918	137	30-130			*
Fluorene	0.115	0.00029	"	0.165	<0.000290	69.6	30-130			
Indeno(1,2,3-cd)pyrene	0.187	0.00029	"	0.165	0.00707	109	30-130			
Naphthalene	0.102	0.000467	"	0.165	<0.000467	61.8	30-130			
Benzo(a)anthracene	0.116	0.00041	"	0.165	0.00753	65.7	30-130			
Surrogate: 2-Fluorobiphenyl	90		"	0.33	296	90	33-115			
Surrogate: 4-Terphenyl-d14	90.3		"	0.33	292	90.3	33-122			
Surrogate: Nitrobenzene-d5	70.3		"	0.33	234	70.3	29-110			

LCS (LCS-L578039)		Prepared: 10/07/2021 Analyzed: 10/07/2021								
Chrysene	0.124	0.00027	mg/Kg	0.167		74.2	30-130			
Benzo(a)anthracene	0.121	0.00041	"	0.167		72.4	30-130			
Naphthalene	0.103	0.000467	"	0.167		61.6	30-130			
Indeno(1,2,3-cd)pyrene	0.124	0.00029	"	0.167		74.2	30-130			
Fluorene	0.115	0.00029	"	0.167		68.8	30-130			
Dibenz(a,h)anthracene	0.149	0.00036	"	0.167		89.2	30-130			
Benzo(k)fluoranthene	0.095	0.00013	"	0.167		56.8	30-130			
Fluoranthene	0.126	0.00039	"	0.167		75.4	30-130			
Benzo(a)pyrene	0.148	0.00014	"	0.167		88.6	30-130			
Pyrene	0.124	0.00059	"	0.167		74.2	30-130			
Anthracene	0.117	0.00033	"	0.167		70	30-130			
Acenaphthene	0.112	0.0003	"	0.167		67	30-130			
2-Methylnaphthalene	0.105	0.00039	"	0.167		62.8	30-130			
1-Methylnaphthalene	0.108	0.00033	"	0.167		64.6	30-130			

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: -  
Project: Bonanza - Fidncial 6-62-34\_35SWSW

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L578039 - 3550B</b>										
<b>LCS (LCS-L578039)</b>					Prepared: 10/07/2021 Analyzed: 10/07/2021					
Benzo(b)fluoranthene	0.105	0.00021	mg/Kg	0.167		62.8	30-130			
Surrogate: Nitrobenzene-d5	78		"	0.333		78	29-110			
Surrogate: 4-Terphenyl-d14	108		"	0.333		108	33-122			
Surrogate: 2-Fluorobiphenyl	93.6		"	0.333		93.6	33-115			
<b>LRB (LRB-L578039)</b>					Prepared: 10/07/2021 Analyzed: 10/07/2021					
Chrysene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	95.7		"	0.333		95.7	33-122			
Surrogate: Nitrobenzene-d5	70.2		"	0.333		70.2	29-110			
Surrogate: 2-Fluorobiphenyl	86.7		"	0.333		86.7	33-115			

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: -

Project: Bonanza - Fidncial 6-62-34\_35SWSW

### Notes and Definitions

U Sample is Non-Detect.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

JB [Undefined]

J Estimated Value. Analyte below reported quantitation limit.

B Analyte detected in associated method blank.

\* QC Failure

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.



*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.*



November 12, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - Fiducial  
6-62-34\_35SWSW**

**Project Number - [none]**

Attached are your analytical results for Bonanza - Fiducial 6-62-34\_35SWSW received by Origins Laboratory, Inc. November 05, 2021. This project is associated with Origins project number Y111137-01.

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: Bonanza - Fiducial 6-62-34\_35SWSW

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-01@1'	Y111137-01	Soil	November 5, 2021 9:50	11/05/2021 15:30
CS-SS-02@1'	Y111137-02	Soil	November 5, 2021 9:51	11/05/2021 15:30
CS-SS-03@1'	Y111137-03	Soil	November 5, 2021 9:52	11/05/2021 15:30
CS-SS-04@1'	Y111137-04	Soil	November 5, 2021 9:53	11/05/2021 15:30
CS-SS-05@1'	Y111137-05	Soil	November 5, 2021 9:54	11/05/2021 15:30
CS-SS-06@1'	Y111137-06	Soil	November 5, 2021 9:55	11/05/2021 15:30
CS-FS-01@2'	Y111137-07	Soil	November 5, 2021 10:15	11/05/2021 15:30
CS-FS-02@2'	Y111137-08	Soil	November 5, 2021 10:16	11/05/2021 15:30
CS-FS-03@6'	Y111137-09	Soil	November 5, 2021 10:17	11/05/2021 15:30
CS-FS-04@6'	Y111137-10	Soil	November 5, 2021 10:18	11/05/2021 15:30

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: Bonanza - Fiducial 6-62-34\_35SWSW

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

4111137

page 1 of 1

Client: Eagle Environmental  
Address: 8000 W 44th Ave  
Wheat Ridge CO  
Telephone Number: 303.433.0479  
Email Address: mce@eagle-enviro.com

Project Manager: Martin Eckert III  
Project Name: Fiducial 6-62-34\_35SWSW  
Project Number: -  
Samples Collected By: KF

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
CS-SS-01e1'	11/5/21	0950	2	X	Soil	PAHs DEQ/RO 6-82700	1
CS-SS-02e1'		0951					2
CS-SS-03e1'		0952					3
CS-SS-04e1'		0953					4
CS-SS-05e1'		0954					5
CS-SS-06e1'		0955					6
CS-FS-01e2'		1015					7
CS-FS-02e2'		1016					8
CS-FS-03e2'		1017					9
CS-FS-04e2'		1018					10
Relinquished By: <i>Jim</i>	Date: 11/5/21	Time: 1521	Received By: <i>James Holway</i>	Date: 5/11/21	Time: 1530	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		

Temp Received: 2.2°C Date Results Needed

Origins Laboratory, Inc.

*Jordan A. Merrill*

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: Bonanza - Fiducial 6-62-34\_35SWSW

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y111137

Client: Eagle

Client Project ID: Fiducial 6-62-34-35 SWSW

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 11/18/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 12.2 °C 1 °C 1 °C (Describe) 1 °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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

Bonanza project per Andrew

<sup>(1)</sup>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: JM (Project Manager)

Date/Time Reviewed: 11-9-21

Origins Laboratory, Inc.

*Jordan A. Merrill*

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-01@1'

11/5/2021 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y111137-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.3 %	50-150	"	"	"
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.8 %	70-130	"	"	"

## PAH by 8270D SIM

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-01@1'

11/5/2021 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y111137-01 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	0.000579	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	J
2-Methylnaphthalene	0.000717	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00417	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.00401	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	42.7 %	29-110	"	"	"

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-02@1'

11/5/2021 9:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y111137-02 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.8 % 50-150 " " "

## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.8 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 93.4 % 70-130 " " "

## PAH by 8270D SIM

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-02@1'

11/5/2021 9:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y111137-02 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	0.000894	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.000312	0.00027	0.00067	"	"	"	"	"	JB
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.000743	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	57.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	77.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	45 %	29-110	"	"	"

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-03@1'

11/5/2021 9:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y111137-03 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	313	25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021
Residual Range Organics (C28-C40)	263	100	"	"	"	"	"

Surrogate: o-Terphenyl	86.6 %	50-150	"	"	"
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0219	0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021
1,3,5-Trimethylbenzene	0.0520	0.00200	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	U
Gasoline Range Hydrocarbons	4.54	0.200	"	"	"	"	"
Xylenes, total	0.0958	0.00200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.786	0.00165	0.00335	mg/Kg	5	L584066	11/10/2021	11/10/2021
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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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-03@1'

11/5/2021 9:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y111137-03 (Soil)

## PAH by 8270D SIM

2-Methylnaphthalene	0.385	0.00195	0.00335	mg/Kg	5	L584066	11/10/2021	11/10/2021
Acenaphthene	0.0645	0.0015	0.00335	"	"	"	"	"
Anthracene	0.00372	0.00165	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.0131	0.00205	0.00335	"	"	"	"	"
Benzo(a)pyrene	0.00394	0.0007	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	0.00892	0.00105	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00065	0.00335	"	"	"	"	"
Chrysene	0.135	0.00135	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0018	0.00335	"	"	"	"	"
Fluoranthene	0.00412	0.00195	0.00335	"	"	"	"	"
Fluorene	0.276	0.00145	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00145	0.00335	"	"	"	"	"
Naphthalene	0.0822	0.00234	0.00335	"	"	"	"	"
Pyrene	0.0479	0.00295	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.6 %	29-110	"	"	"

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-04@1'

11/5/2021 9:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y111137-04 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.8 %	50-150	"	"	"
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130	"	"	"

## PAH by 8270D SIM

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-04@1'

11/5/2021 9:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y111137-04 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"
Anthracene	ND	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"
Chrysene	ND	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"
Fluorene	ND	0.00029	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.00059	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	41.6 %	29-110	"	"	"

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-05@1'

11/5/2021 9:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y111137-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.2 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.9 % 70-130 " " "  
Surrogate: Toluene-d8 99.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.7 % 70-130 " " "

**PAH by 8270D SIM**

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-05@1'

11/5/2021 9:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y111137-05 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	0.000396	0.0003	0.00067	"	"	"	"	"	J
Anthracene	0.00119	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00115	0.00041	0.00067	"	"	"	"	"	B
Benzo(a)pyrene	0.000261	0.00014	0.00067	"	"	"	"	"	JB
Benzo(b)fluoranthene	0.000649	0.00021	0.00067	"	"	"	"	"	JB
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.0131	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.00799	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.00322	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	57.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	42.3 %	29-110	"	"	"

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-06@1'

11/5/2021 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y111137-06 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 101 % 50-150 " " "

## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.9 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 95.0 % 70-130 " " "

## PAH by 8270D SIM

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-06@1'

11/5/2021 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y111137-06 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	0.00129	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	0.000918	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00226	0.00027	0.00067	"	"	"	"	"	B
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.00317	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	40.8 %	29-110	"	"	"

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-FS-01@2'

11/5/2021 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y111137-07 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.9 %	50-150	"	"	"
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130	"	"	"

## PAH by 8270D SIM

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-FS-01@2'

11/5/2021 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y111137-07 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	0.000442	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	J
2-Methylnaphthalene	0.000453	0.00039	0.00067	"	"	"	"	"	J
Acenaphthene	0.000576	0.0003	0.00067	"	"	"	"	"	J
Anthracene	0.000498	0.00033	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	0.000478	0.00041	0.00067	"	"	"	"	"	JB
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000471	0.00021	0.00067	"	"	"	"	"	JB
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00798	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.008	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.00146	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	41.6 %	29-110	"	"	"

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-FS-02@2'

11/5/2021 10:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y111137-08 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.2 %	50-150	"	"	"
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130	"	"	"

## PAH by 8270D SIM

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-FS-02@2'

11/5/2021 10:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y111137-08 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00121	0.00027	0.00067	"	"	"	"	"	B
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.00113	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43.9 %	29-110	"	"	"

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-FS-03@6'

11/5/2021 10:17:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y111137-09 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	686	25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021
Residual Range Organics (C28-C40)	296	100	"	"	"	"	"

Surrogate: o-Terphenyl	104 %	50-150	"	"	"
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	3.08	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130	"	"	"

**PAH by 8270D SIM**

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-FS-03@6'

11/5/2021 10:17:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y111137-09 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	0.00276	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	0.000641	0.00039	0.00067	"	"	"	"	"	J
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00298	0.00027	0.00067	"	"	"	"	"	B
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.0043	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	41.8 %	29-110	"	"	"

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-FS-04@6'

11/5/2021 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y111137-10 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.9 %	50-150	"	"	"
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130	"	"	"
Surrogate: Toluene-d8	99.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130	"	"	"

## PAH by 8270D SIM

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: Bonanza - Fiducial 6-62-34\_35SWSW

CS-FS-04@6'

11/5/2021 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y111137-10 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00119	0.00027	0.00067	"	"	"	"	"	B
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.000678	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	42.5 %	29-110	"	"	"

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: Bonanza - Fiducial 6-62-34\_35SWSW

## 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 B1K0809 - EPA 5030 (soil)										
Blank (B1K0809-BLK1)					Prepared: 11/08/2021 Analyzed: 11/10/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	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: Bonanza - Fiducial 6-62-34\_35SWSW

**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 B1K0809 - EPA 5030 (soil)**

**LCS (B1K0809-BS1)**

Prepared: 11/08/2021 Analyzed: 11/10/2021

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
Naphthalene	0.105	0.0100	"	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.211	0.00400	"	0.200		105	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
Toluene	0.0978	0.00200	"	0.100		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	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: Bonanza - Fiducial 6-62-34\_35SWSW

**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
<b>Batch B1K0809 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B1K0809-MS1)</b>		<b>Source: Y111137-01</b>			Prepared: 11/08/2021 Analyzed: 11/10/2021					
1,2,4-Trimethylbenzene	0.124	0.00200	mg/kg	0.100	0.000580	123	70-130			
Naphthalene	0.120	0.0100	"	0.100	0.00498	115	70-130			
1,3,5-Trimethylbenzene	0.121	0.00200	"	0.100	ND	121	70-130			
Benzene	0.133	0.00200	"	0.100	ND	133	70-130			QM-07
Ethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130			
m,p-Xylene	0.242	0.00400	"	0.200	ND	121	70-130			
o-Xylene	0.126	0.00200	"	0.100	ND	126	70-130			
Toluene	0.120	0.00200	"	0.100	ND	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.3	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: Bonanza - Fiducial 6-62-34\_35SWSW

**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
<b>Batch B1K0809 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1K0809-MSD1)</b>		<b>Source: Y111137-01</b>			Prepared: 11/08/2021 Analyzed: 11/10/2021					
1,2,4-Trimethylbenzene	0.217	0.00200	mg/kg	0.100	0.000580	216	70-130	54.9	20	QM-07
Naphthalene	0.214	0.0100	"	0.100	0.00498	209	70-130	56.3	20	QM-07
1,3,5-Trimethylbenzene	0.213	0.00200	"	0.100	ND	213	70-130	54.8	20	QM-07
Benzene	0.202	0.00200	"	0.100	ND	202	70-130	41.0	20	QM-07
Ethylbenzene	0.210	0.00200	"	0.100	ND	210	70-130	57.5	20	QM-07
m,p-Xylene	0.436	0.00400	"	0.200	ND	218	70-130	57.3	20	QM-07
o-Xylene	0.225	0.00200	"	0.100	ND	225	70-130	56.3	20	QM-07
Toluene	0.206	0.00200	"	0.100	ND	206	70-130	52.8	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	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: Bonanza - Fiducial 6-62-34\_35SWSW

**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 B1K0814 - EPA 3550B										
Blank (B1K0814-BLK1)					Prepared: 11/08/2021 Analyzed: 11/10/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		103	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: Bonanza - Fiducial 6-62-34\_35SWSW

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 B1K0814 - EPA 3550B

LCS (B1K0814-BS1)

Prepared: 11/08/2021 Analyzed: 11/10/2021

Diesel (C10-C28)	1110	50.0	mg/kg	1000		111	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	64		"	49.8		128	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: Bonanza - Fiducial 6-62-34\_35SWSW

**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 B1K0814 - EPA 3550B**

Matrix Spike (B1K0814-MS1)		Source: Y111137-01			Prepared: 11/08/2021 Analyzed: 11/10/2021					
Diesel (C10-C28)	962	50.0	mg/kg	1000	ND	96.2	70-130			
Residual Range Organics (C28-C40)	939	200	"	1000	ND	93.9	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.3	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: Bonanza - Fiducial 6-62-34\_35SWSW

## 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 B1K0814 - EPA 3550B

Matrix Spike Dup (B1K0814-MSD1)		Source: Y111137-01			Prepared: 11/08/2021 Analyzed: 11/10/2021					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	11.8	35	
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130	17.8	35	
Surrogate: o-Terphenyl	55		"	49.8		110	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: Bonanza - Fiducial 6-62-34\_35SWSW

## 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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## PAH by 8270D SIM - Quality Control

### Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L584066 - 3550B

MSD (L 95758-MSD-L584066)		Source: 95758			Prepared: 11/10/2021 Analyzed: 11/10/2021					
Benzo(b)fluoranthene	0.114	0.00105	mg/Kg	0.162	<0.00105	70.3	30-130	0.8	30	
Benzo(a)pyrene	0.119	0.0007	"	0.162	<0.000700	73.4	30-130	3.3	30	
1-Methylnaphthalene	0.0957	0.00165	"	0.162	<0.00165	59	30-130	1.2	30	
2-Methylnaphthalene	0.0884	0.00195	"	0.162	<0.00195	54.5	30-130	1.3	30	
Acenaphthene	0.11	0.0015	"	0.162	<0.00150	67.9	30-130	1.8	30	
Anthracene	0.105	0.00165	"	0.162	<0.00165	64.8	30-130	2.8	30	
Pyrene	0.105	0.00295	"	0.162	<0.00295	64.8	30-130	3.7	30	
Naphthalene	0.0874	0.00234	"	0.162	<0.00234	53.9	30-130	2.4	30	
Indeno(1,2,3-cd)pyrene	0.0923	0.00145	"	0.162	<0.00145	56.9	30-130	2.7	30	
Fluorene	0.106	0.00145	"	0.162	<0.00145	65.4	30-130	0.9	30	
Fluoranthene	0.108	0.00195	"	0.162	<0.00195	66.6	30-130	1.8	30	
Dibenz(a,h)anthracene	0.103	0.0018	"	0.162	<0.00180	63.5	30-130	0	30	
Chrysene	0.125	0.00135	"	0.162	<0.00135	77.1	30-130	0	30	
Benzo(k)fluoranthene	0.1	0.00065	"	0.162	<0.000650	61.7	30-130	0.9	30	
Benzo(a)anthracene	0.121	0.00205	"	0.162	<0.00205	74.6	30-130	1.6	30	
Surrogate: 2-Fluorobiphenyl	51.3		"	0.325	151	51.3	33-115			
Surrogate: 4-Terphenyl-d14	70.1		"	0.325	202	70.1	33-122			
Surrogate: Nitrobenzene-d5	39		"	0.325	118	39	29-110			

MS (L 95758-MS-L584066)		Source: 95758			Prepared: 11/10/2021 Analyzed: 11/10/2021					
Benzo(a)pyrene	0.123	0.0007	mg/Kg	0.166	<0.000700	74	30-130			
Chrysene	0.125	0.00135	"	0.166	<0.00135	75.3	30-130			

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: Bonanza - Fiducial 6-62-34\_35SWSW

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L584066 - 3550B**

MS (L 95758-MS-L584066)		Source: 95758			Prepared: 11/10/2021 Analyzed: 11/10/2021					
Pyrene	0.109	0.00295	mg/Kg	0.166	<0.00295	65.6	30-130			
Naphthalene	0.0896	0.00234	"	0.166	<0.00234	53.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0949	0.00145	"	0.166	<0.00145	57.1	30-130			
Fluorene	0.105	0.00145	"	0.166	<0.00145	63.2	30-130			
Fluoranthene	0.11	0.00195	"	0.166	<0.00195	66.2	30-130			
Dibenz(a,h)anthracene	0.103	0.0018	"	0.166	<0.00180	62	30-130			
Benzo(b)fluoranthene	0.113	0.00105	"	0.166	<0.00105	68	30-130			
Benzo(a)anthracene	0.123	0.00205	"	0.166	<0.00205	74	30-130			
Anthracene	0.108	0.00165	"	0.166	<0.00165	65	30-130			
Acenaphthene	0.108	0.0015	"	0.166	<0.00150	65	30-130			
2-Methylnaphthalene	0.0896	0.00195	"	0.166	<0.00195	53.9	30-130			
1-Methylnaphthalene	0.0969	0.00165	"	0.166	<0.00165	58.3	30-130			
Benzo(k)fluoranthene	0.101	0.00065	"	0.166	<0.000650	60.8	30-130			
Surrogate: Nitrobenzene-d5	38.2		"	0.332	118	38.2	29-110			
Surrogate: 2-Fluorobiphenyl	47.8		"	0.332	151	47.8	33-115			
Surrogate: 4-Terphenyl-d14	72.2		"	0.332	202	72.2	33-122			

**LCS (LCS-L584066)**

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

Dibenz(a,h)anthracene	0.134	0.00036	mg/Kg	0.167		80.2	30-130
Fluoranthene	0.125	0.00039	"	0.167		74.8	30-130
Fluorene	0.118	0.00029	"	0.167		70.6	30-130
Indeno(1,2,3-cd)pyrene	0.115	0.00029	"	0.167		68.8	30-130
Naphthalene	0.102	0.000467	"	0.167		61	30-130
Pyrene	0.125	0.00059	"	0.167		74.8	30-130
Chrysene	0.134	0.00027	"	0.167		80.2	30-130
1-Methylnaphthalene	0.109	0.00033	"	0.167		65.2	30-130
Benzo(b)fluoranthene	0.124	0.00021	"	0.167		74.2	30-130

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: Bonanza - Fiducial 6-62-34\_35SWSW

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L584066 - 3550B**

**LCS (LCS-L584066)**

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

Benzo(a)pyrene	0.138	0.00014	mg/Kg	0.167		82.6	30-130			
Benzo(a)anthracene	0.131	0.00041	"	0.167		78.4	30-130			
Acenaphthene	0.115	0.0003	"	0.167		68.8	30-130			
2-Methylnaphthalene	0.106	0.00039	"	0.167		63.4	30-130			
Anthracene	0.117	0.00033	"	0.167		70	30-130			
Benzo(k)fluoranthene	0.119	0.00013	"	0.167		71.2	30-130			
Surrogate: 4-Terphenyl-d14	84.6		"	0.333		84.6	33-122			
Surrogate: Nitrobenzene-d5	44.4		"	0.333		44.4	29-110			
Surrogate: 2-Fluorobiphenyl	60.3		"	0.333		60.3	33-115			

**LRB (LRB-L584066)**

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

Chrysene	0.000348	0.00067	mg/Kg				-			J
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	0.000414	0.00067	"				-			J
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	0.000576	0.00067	"				-			J
Benzo(a)pyrene	0.000346	0.00067	"				-			J
Benzo(a)anthracene	0.000604	0.00067	"				-			J
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	79.2		"	0.333		79.2	33-122			

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: Bonanza - Fiducial 6-62-34\_35SWSW

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L584066 - 3550B

LRB (LRB-L584066)

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

Surrogate: Nitrobenzene-d5	44.4		mg/Kg	0.333		44.4	29-110			
Surrogate: 2-Fluorobiphenyl	59.1		"	0.333		59.1	33-115			

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: Bonanza - Fiducial 6-62-34\_35SWSW

### Notes and Definitions

U Sample is Non-Detect.

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

JB [Undefined]

J Estimated Value. Analyte below reported quantitation limit.

B Analyte detected in associated method blank.

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.*



December 23, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - Fiducial  
6-62-34\_35SWSW**

**Project Number - -**

Attached are your analytical results for Bonanza - Fiducial 6-62-34\_35SWSW received by Origins Laboratory, Inc. December 01, 2021. This project is associated with Origins project number Y112063-01.

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: -

Project: Bonanza - Fiducial 6-62-34\_35SWSW

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-FS-05@8.5'	Y112063-01	Soil	December 1, 2021 12:15	12/01/2021 15:32
CS-SS-07@1'	Y112063-02	Soil	December 1, 2021 12:05	12/01/2021 15:32
CS-SS-08@7.5'	Y112063-03	Soil	December 1, 2021 12:17	12/01/2021 15:32
CS-SS-09@7.5'	Y112063-04	Soil	December 1, 2021 12:19	12/01/2021 15:32
CS-SS-10@7.5'	Y112063-05	Soil	December 1, 2021 12:21	12/01/2021 15:32

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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 11120063

Client: Eagle

Client Project ID: Fiducial 6-62-34

Checklist Completed by: KH

Shipped Via: HD

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

Date/time completed: 12/2/12

Airbill #: 11A

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

Cooler Number/Temperature: 1 5.4 °C      °C      °C (Describe)      °C

Thermometer ID: 1123

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<u>/</u>			
Is there ice present (document if blue ice is used)	<u>/</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Were all samples received intact <sup>(1)</sup> ?	<u>/</u>			
Was adequate sample volume provided <sup>(1)</sup> ?	<u>/</u>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<u>/</u>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<u>/</u>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<u>/</u>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>/</u>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<u>/</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>/</u>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<u>/</u>	
Additional Comments (if any):				

<sup>(1)</sup>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): [Signature]

12/3/12  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III  
Project Number: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

CS-FS-05@8.5'

12/1/2021 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y112063-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	160	25.0	mg/kg	1	B1L0831	12/08/2021	12/11/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	51.4 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0145	0.00200	mg/kg	1	B1L0308	12/03/2021	12/03/2021	
1,3,5-Trimethylbenzene	0.0147	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	4.82	0.200	"	"	"	"	"	
Xylenes, total	0.00328	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

## PAH by 8270D SIM

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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

CS-FS-05@8.5'

12/1/2021 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y112063-01 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	0.148	0.00033	0.00067	mg/Kg	1	L588091	12/04/2021	12/05/2021
2-Methylnaphthalene	0.0484	0.00039	0.00067	"	"	"	"	"
Acenaphthene	0.0115	0.0003	0.00067	"	"	"	"	"
Anthracene	0.00295	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00196	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00133	0.00014	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.0011	0.00021	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"
Chrysene	0.0177	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00113	0.00036	0.00067	"	"	"	"	"
Fluoranthene	0.000821	0.00039	0.00067	"	"	"	"	"
Fluorene	0.0477	0.00029	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"
Naphthalene	0.00302	0.000467	0.00067	"	"	"	"	"
Pyrene	0.00835	0.00059	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.6 %	29-110	"	"	"

Origins Laboratory, Inc.

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-07@1'

12/1/2021 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y112063-02 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1L0831	12/08/2021	12/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	52.8 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L0308	12/03/2021	12/03/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130	"	"	"

## PAH by 8270D SIM

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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-07@1'

12/1/2021 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y112063-02 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	0.00448	0.00033	0.00067	mg/Kg	1	L588091	12/04/2021	12/05/2021
2-Methylnaphthalene	0.00261	0.00039	0.00067	"	"	"	"	"
Acenaphthene	0.00241	0.0003	0.00067	"	"	"	"	"
Anthracene	0.000673	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.000681	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000816	0.00014	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"
Chrysene	0.0077	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00104	0.00036	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"
Fluorene	0.014	0.00029	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	0.00316	0.00059	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	50.5 %	29-110	"	"	"

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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

## CS-SS-08@7.5'

12/1/2021 12:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y112063-03 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	178	25.0	mg/kg	1	B1L0831	12/08/2021	12/11/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.6 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00232	0.00200	mg/kg	1	B1L0308	12/03/2021	12/03/2021	
1,3,5-Trimethylbenzene	0.00212	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.798	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 98.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.4 % 70-130 " " "

### PAH by 8270D SIM

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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-08@7.5'

12/1/2021 12:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y112063-03 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	0.0388	0.00033	0.00067	mg/Kg	1	L588091	12/04/2021	12/05/2021	
2-Methylnaphthalene	0.0266	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	0.00491	0.0003	0.00067	"	"	"	"	"	
Anthracene	0.00212	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000768	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000896	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000438	0.00021	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00942	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000808	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	0.000713	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.0214	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	0.00159	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.00482	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	42 %	29-110	"	"	"

Origins Laboratory, Inc.

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

## CS-SS-09@7.5'

12/1/2021 12:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y112063-04 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1L0831	12/08/2021	12/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 59.0 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L0308	12/03/2021	12/03/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 99.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.7 % 70-130 " " "

### PAH by 8270D SIM

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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-09@7.5'

12/1/2021 12:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y112063-04 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L588091	12/04/2021	12/05/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000288	0.00014	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00129	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.00125	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	44.1 %	29-110	"	"	"

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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

## CS-SS-10@7.5'

12/1/2021 12:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y112063-05 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1L0831	12/08/2021	12/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L0308	12/03/2021	12/03/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 98.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.6 % 70-130 " " "

### PAH by 8270D SIM

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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

CS-SS-10@7.5'

12/1/2021 12:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y112063-05 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	0.00106	0.00033	0.00067	mg/Kg	1	L588091	12/04/2021	12/05/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"
Anthracene	ND	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"
Chrysene	0.00129	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"
Fluorene	0.00126	0.00029	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.00059	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.9 %	29-110	"	"	"

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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

**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
<b>Batch B1L0308 - EPA 5030 (soil)</b>										
<b>Blank (B1L0308-BLK1)</b>					Prepared: 12/03/2021 Analyzed: 12/03/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

**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
<b>Batch B1L0308 - EPA 5030 (soil)</b>										
<b>LCS (B1L0308-BS1)</b>					Prepared: 12/03/2021 Analyzed: 12/03/2021					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
Naphthalene	0.0981	0.0100	"	0.100		98.1	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.227	0.00400	"	0.200		113	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
Toluene	0.111	0.00200	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	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: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

**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 B1L0308 - EPA 5030 (soil)**

Matrix Spike (B1L0308-MS1)		Source: Y112045-01			Prepared: 12/03/2021 Analyzed: 12/03/2021					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	0.00118	99.3	70-130			
Naphthalene	0.105	0.0100	"	0.100	0.00342	101	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	0.00114	99.2	70-130			
Benzene	0.110	0.00200	"	0.100	ND	110	70-130			
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130			
m,p-Xylene	0.223	0.00400	"	0.200	ND	111	70-130			
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130			
Toluene	0.111	0.00200	"	0.100	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Bonanza - Fiducial 6-62-34\_35SWSW

**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
<b>Batch B1L0308 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1L0308-MSD1)</b>	<b>Source: Y112045-01</b>				Prepared: 12/03/2021 Analyzed: 12/03/2021					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	0.00118	101	70-130	1.72	20	
Naphthalene	0.111	0.0100	"	0.100	0.00342	107	70-130	5.85	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	0.00114	99.9	70-130	0.715	20	
Benzene	0.115	0.00200	"	0.100	ND	115	70-130	4.50	20	
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	0.198	20	
m,p-Xylene	0.225	0.00400	"	0.200	ND	112	70-130	0.867	20	
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130	0.320	20	
Toluene	0.113	0.00200	"	0.100	ND	113	70-130	2.12	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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**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 B1L0831 - EPA 3550B										
Blank (B1L0831-BLK1)					Prepared: 12/08/2021 Analyzed: 12/11/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	17		"	24.9		66.5	50-150			

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**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 B1L0831 - EPA 3550B

**LCS (B1L0831-BS1)**

Prepared: 12/08/2021 Analyzed: 12/11/2021

Diesel (C10-C28)	914	50.0	mg/kg	1000		91.4	70-130			
Residual Range Organics (C28-C40)	845	200	"	1000		84.5	70-130			
Surrogate: o-Terphenyl	35		"	49.8		69.9	50-150			

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Project: Bonanza - Fiducial 6-62-34\_35SWSW

**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 B1L0831 - EPA 3550B**

Matrix Spike (B1L0831-MS1)		Source: Y112079-01			Prepared: 12/08/2021 Analyzed: 12/11/2021					
Diesel (C10-C28)	973	50.0	mg/kg	1000	42.7	93.0	70-130			
Residual Range Organics (C28-C40)	852	200	"	1000	ND	85.2	70-130			
Surrogate: o-Terphenyl	32		"	49.8		64.4	50-150			

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Project: Bonanza - Fiducial 6-62-34\_35SWSW

**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 B1L0831 - EPA 3550B

Matrix Spike Dup (B1L0831-MSD1)		Source: Y112079-01			Prepared: 12/08/2021 Analyzed: 12/11/2021					
Diesel (C10-C28)	933	50.0	mg/kg	1000	42.7	89.0	70-130	4.24	35	
Residual Range Organics (C28-C40)	839	200	"	1000	ND	83.9	70-130	1.52	35	
Surrogate: o-Terphenyl	32		"	49.8		64.4	50-150			

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Project: Bonanza - Fiducial 6-62-34\_35SWSW

## 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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## PAH by 8270D SIM - Quality Control

### Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L588091 - 3550B

MSD (L 90839-MSD-L588091)		Source: Y112063-01			Prepared: 12/04/2021 Analyzed: 12/05/2021					
Benzo(a)pyrene	0.114	0.00014	mg/Kg	0.166	0.00133	67.8	30-130	4.4	30	
1-Methylnaphthalene	0.217	0.00033	"	0.166	0.148	41.5	30-130	27.7	30	
2-Methylnaphthalene	0.149	0.00039	"	0.166	0.0484	60.6	30-130	14.9	30	
Acenaphthene	0.12	0.0003	"	0.166	0.0115	65.3	30-130	2.5	30	
Anthracene	0.0929	0.00033	"	0.166	0.00295	54.1	30-130	26.3	30	
Benzo(b)fluoranthene	0.114	0.00021	"	0.166	0.0011	68	30-130	0.8	30	
Pyrene	0.119	0.00059	"	0.166	0.00835	66.6	30-130	6	30	
Naphthalene	0.108	0.000467	"	0.166	0.00302	63.2	30-130	1.8	30	
Indeno(1,2,3-cd)pyrene	0.16	0.00029	"	0.166	90839	96.3	30-130	1.8	30	
Fluorene	0.152	0.00029	"	0.166	0.0477	62.8	30-130	6.3	30	
Fluoranthene	0.12	0.00039	"	0.166	0.000821	71.7	30-130	8.6	30	
Dibenz(a,h)anthracene	0.194	0.00036	"	0.166	0.00113	116	30-130	3.5	30	
Chrysene	0.125	0.00027	"	0.166	0.0177	64.6	30-130	6.9	30	
Benzo(k)fluoranthene	0.118	0.00013	"	0.166	90839	71	30-130	8.8	30	
Benzo(a)anthracene	0.124	0.00041	"	0.166	0.00196	73.5	30-130	10.1	30	
Surrogate: 2-Fluorobiphenyl	59.6		%	0.332	181	59.6	33-115			
Surrogate: 4-Terphenyl-d14	62.3		"	0.332	187	62.3	33-122			
Surrogate: Nitrobenzene-d5	50.9		"	0.332	158	50.9	29-110			

MS (L 90839-MS-L588091)		Source: Y112063-01			Prepared: 12/04/2021 Analyzed: 12/05/2021					
Benzo(a)pyrene	0.109	0.00014	mg/Kg	0.166	0.00133	64.8	30-130			
Chrysene	0.134	0.00027	"	0.166	0.0177	70	30-130			

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Project: Bonanza - Fiducial 6-62-34\_35SWSW

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L588091 - 3550B**

MS (L 90839-MS-L588091)		Source: Y112063-01			Prepared: 12/04/2021 Analyzed: 12/05/2021					
Pyrene	0.112	0.00059	mg/Kg	0.166	0.00835	62.4	30-130			
Naphthalene	0.11	0.000467	"	0.166	0.00302	64.4	30-130			
Indeno(1,2,3-cd)pyrene	0.163	0.00029	"	0.166	90839	98.1	30-130			
Fluorene	0.162	0.00029	"	0.166	0.0477	68.8	30-130			
Fluoranthene	0.11	0.00039	"	0.166	0.000821	65.7	30-130			
Dibenz(a,h)anthracene	0.201	0.00036	"	0.166	0.00113	120	30-130			
Benzo(b)fluoranthene	0.113	0.00021	"	0.166	0.0011	67.4	30-130			
Benzo(a)anthracene	0.112	0.00041	"	0.166	0.00196	66.2	30-130			
Anthracene	0.0713	0.00033	"	0.166	0.00295	41.1	30-130			
Acenaphthene	0.117	0.0003	"	0.166	0.0115	63.5	30-130			
2-Methylnaphthalene	0.173	0.00039	"	0.166	0.0484	75	30-130			
1-Methylnaphthalene	0.287	0.00033	"	0.166	0.148	83.7	30-130			
Benzo(k)fluoranthene	0.108	0.00013	"	0.166	90839	65	30-130			
Surrogate: Nitrobenzene-d5	49.8		%	0.331	158	49.8	29-110			
Surrogate: 2-Fluorobiphenyl	58.3		"	0.331	181	58.3	33-115			
Surrogate: 4-Terphenyl-d14	58.3		"	0.331	187	58.3	33-122			

**LCS (LCS-L588091)**

Prepared: 12/04/2021 Analyzed: 12/05/2021

Dibenz(a,h)anthracene	0.188	0.00036	mg/Kg	0.167		113	30-130
Fluoranthene	0.128	0.00039	"	0.167		76.6	30-130
Fluorene	0.127	0.00029	"	0.167		76	30-130
Indeno(1,2,3-cd)pyrene	0.158	0.00029	"	0.167		94.6	30-130
Naphthalene	0.112	0.000467	"	0.167		67	30-130
Pyrene	0.128	0.00059	"	0.167		76.6	30-130
Chrysene	0.131	0.00027	"	0.167		78.4	30-130
1-Methylnaphthalene	0.115	0.00033	"	0.167		68.8	30-130
Benzo(b)fluoranthene	0.13	0.00021	"	0.167		77.8	30-130

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L588091 - 3550B**

**LCS (LCS-L588091)**

Prepared: 12/04/2021 Analyzed: 12/05/2021

Benzo(a)pyrene	0.128	0.00014	mg/Kg	0.167		76.6	30-130			
Benzo(a)anthracene	0.12	0.00041	"	0.167		71.8	30-130			
Acenaphthene	0.123	0.0003	"	0.167		73.6	30-130			
2-Methylnaphthalene	0.114	0.00039	"	0.167		68.2	30-130			
Anthracene	0.125	0.00033	"	0.167		74.8	30-130			
Benzo(k)fluoranthene	0.148	0.00013	"	0.167		88.6	30-130			
Surrogate: 4-Terphenyl-d14	86.4		%	0.333		86.4	33-122			
Surrogate: Nitrobenzene-d5	51.9		"	0.333		51.9	29-110			
Surrogate: 2-Fluorobiphenyl	68.4		"	0.333		68.4	33-115			

**LRB (LRB-L588091)**

Prepared: 12/04/2021 Analyzed: 12/05/2021

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	75.9		%	0.333		75.9	33-122			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L588091 - 3550B

LRB (LRB-L588091)

Prepared: 12/04/2021 Analyzed: 12/05/2021

Surrogate: Nitrobenzene-d5	49.5	%	0.333	49.5	29-110
Surrogate: 2-Fluorobiphenyl	63	"	0.333	63	33-115

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Project Number: -

Project: Bonanza - Fiducial 6-62-34\_35SWSW

### Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation 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.

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