

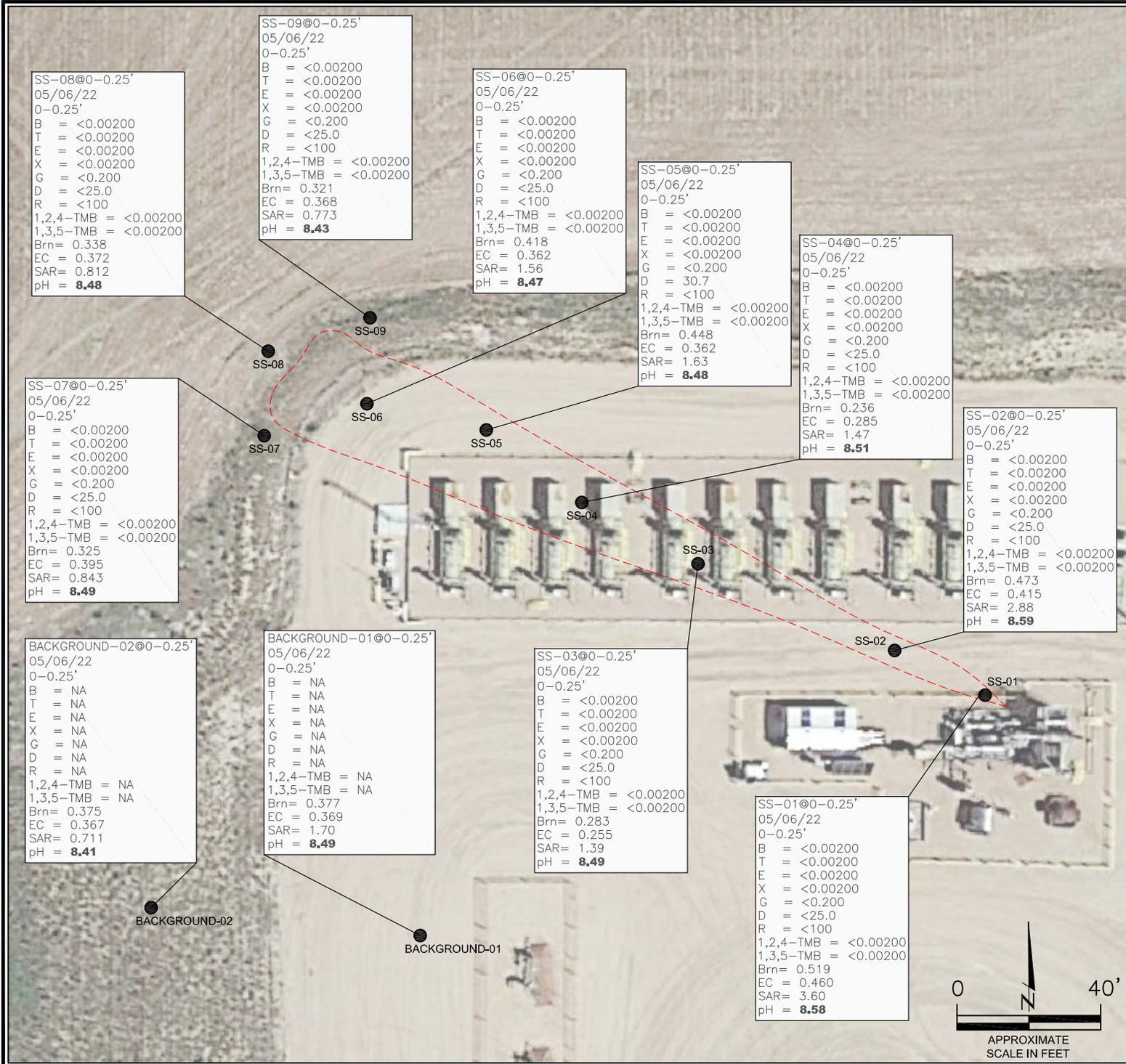


## **FIGURES**

**Figure 1: Soil Analytical Map**

**Figure 2: Polycyclic Aromatic Hydrocarbons Map**

**Figure 3: Metals in Soil Map**



**LEGEND**

- - - - APPROXIMATE 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)
Brn	= BORON (mg/L)
EC	= SPECIFIC CONDUCTANCE (mmhos/cm)
SAR	= SODIUM ADSORPTION RATIO
pH	= pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM  
 mg/L = MILLIGRAMS PER LITER  
 mmhos/cm = MILLIHOS PER CENTIMETER

NA - NOT ANALYZED

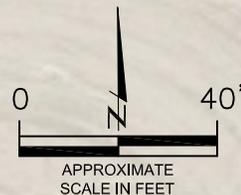
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS THAT EXCEED COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

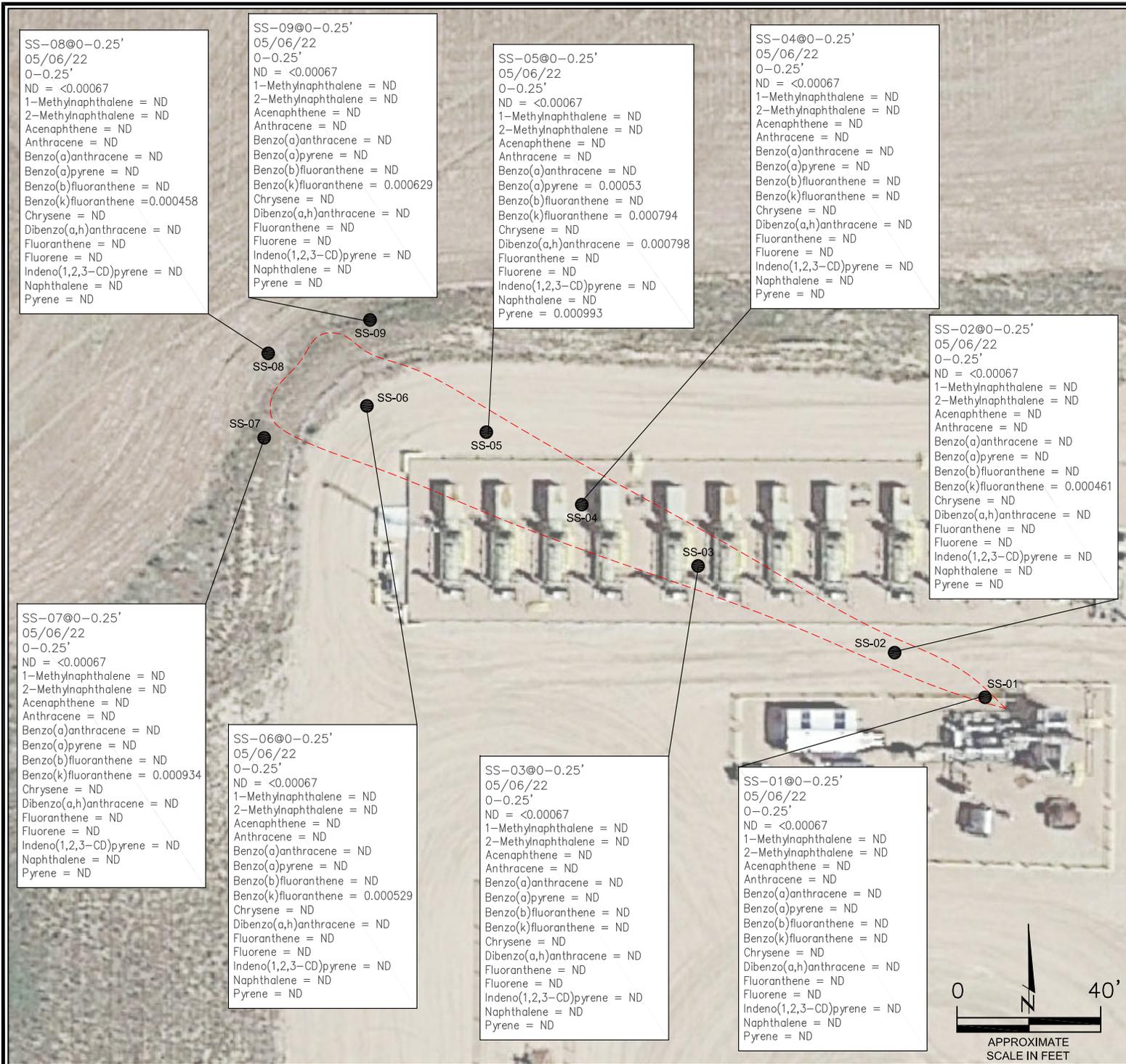
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**SOIL ANALYTICAL MAP**  
 JANSSEN 8-G PAD  
 SURFACE RELEASE  
 40.503560 / -104.687816  
 SE 1/4 NE 1/4 SEC.8 T6N R65W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 443758  
 SPILL ID 482070



DATE:  
06/09/22  
 DRAWN BY:  
TC  
 FIG. NO. 1

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



**LEGEND**

- APPROXIMATE ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES 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

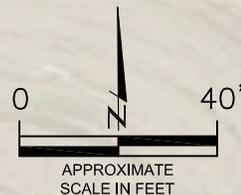
ND = NON-DETECT

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 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP  
JANSSEN 8-G PAD  
SURFACE RELEASE  
40.503560 / -104.687816  
SE¼ NE¼ SEC.8 T6N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 443758  
SPILL ID 482070

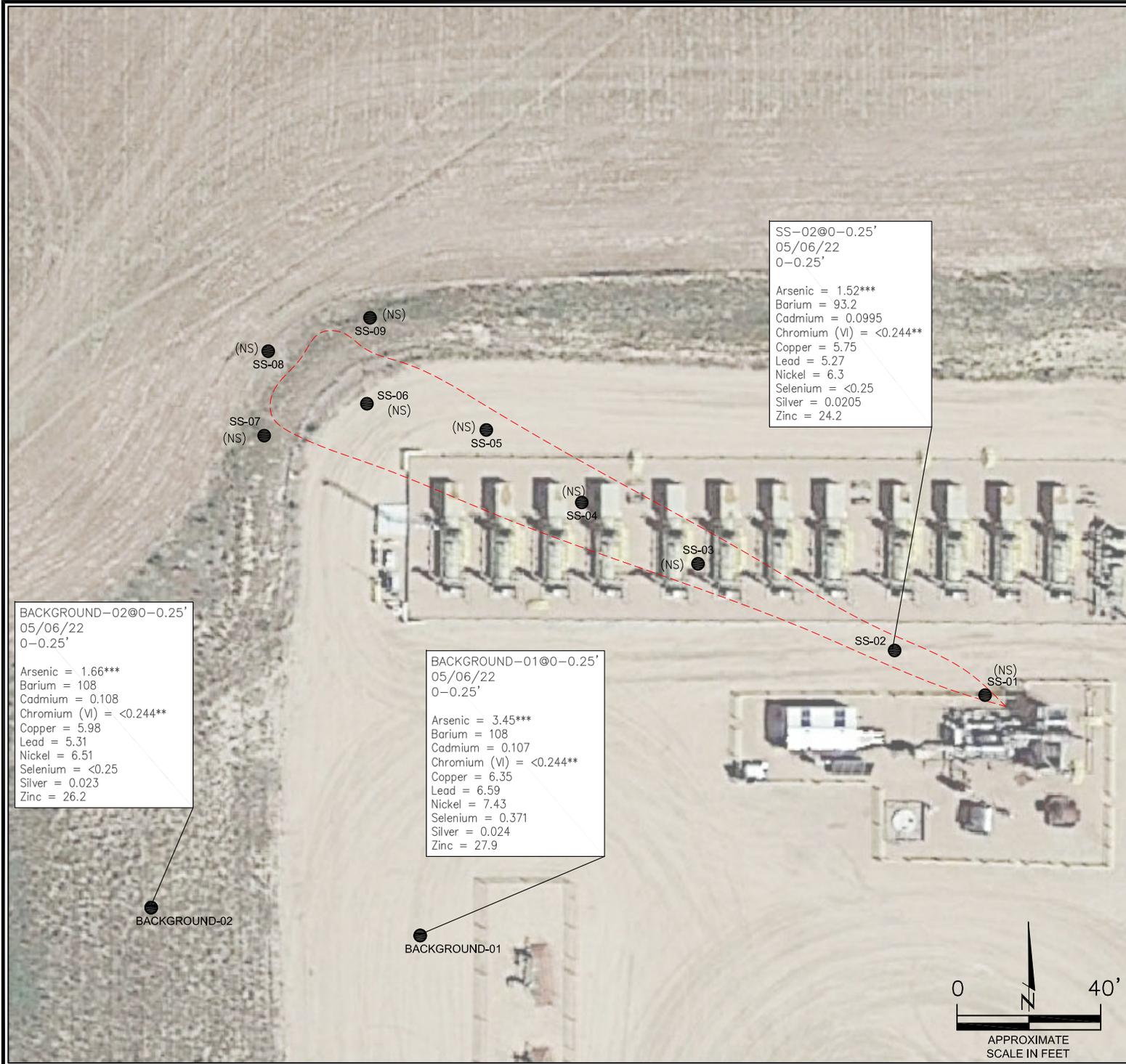


DATE:  
06/09/22

DRAWN BY:  
TC

FIG. NO. 2

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



**LEGEND**

- - - - APPROXIMATE ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

SAMPLE LOCATION  
 DATE SAMPLE COLLECTED  
 APPROXIMATE DEPTH  
 Arsenic = (mg/kg)  
 Barium = (mg/kg)  
 Cadmium = (mg/kg)  
 Chromium (VI) = (mg/kg)  
 Copper = (mg/kg)  
 Lead = (mg/kg)  
 Nickel = (mg/kg)  
 Selenium = (mg/kg)  
 Silver = (mg/kg)  
 Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NA – NOT ANALYZED

(NS) – NOT SAMPLED

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

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

\*VAUES EXCEED COGCC TABLE 915-1 "PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS" FOR THAT COMPOUND.

\*\*ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

\*\*\*ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL "CLEAN-UP LEVEL" (3.2 mg/kg) is 1.25\*BACKGROUND AVERAGE (2.56 mg/kg).

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

BACKGROUND-02@0-0.25'  
 05/06/22  
 0-0.25'  
 Arsenic = 1.66\*\*\*  
 Barium = 108  
 Cadmium = 0.108  
 Chromium (VI) = <0.244\*\*  
 Copper = 5.98  
 Lead = 5.31  
 Nickel = 6.51  
 Selenium = <0.25  
 Silver = 0.023  
 Zinc = 26.2

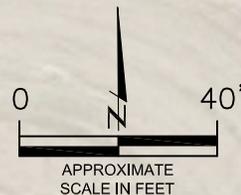
BACKGROUND-01@0-0.25'  
 05/06/22  
 0-0.25'  
 Arsenic = 3.45\*\*\*  
 Barium = 108  
 Cadmium = 0.107  
 Chromium (VI) = <0.244\*\*  
 Copper = 6.35  
 Lead = 6.59  
 Nickel = 7.43  
 Selenium = 0.371  
 Silver = 0.024  
 Zinc = 27.9

SS-02@0-0.25'  
 05/06/22  
 0-0.25'  
 Arsenic = 1.52\*\*\*  
 Barium = 93.2  
 Cadmium = 0.0995  
 Chromium (VI) = <0.244\*\*  
 Copper = 5.75  
 Lead = 5.27  
 Nickel = 6.3  
 Selenium = <0.25  
 Silver = 0.0205  
 Zinc = 24.2

METALS IN SOIL MAP  
 JANSSEN 8-G PAD  
 SURFACE RELEASE  
 40.503560 / -104.687816  
 SE¼ NE¼ SEC.8 T6N R65W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 443758  
 SPILL ID 482070

DATE:  
 06/09/22  
 DRAWN BY:  
 TC  
 FIG.  
 NO. 3

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





## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

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

**Table 4: Metals Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**JANSSEN 8-G PAD**  
**SURFACE RELEASE**  
**40.503560 / -104.687816**  
**SE1/4 NE1/4 SEC.8 T6N R65W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 443758**  
**SPILL ID 482070**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
SS-01 @ 0-0.25' (40.503612 / -104.687920)	05/06/22	0-0.25	10.4	Y
SS-02 @ 0-0.25' (40.503638 / -104.687994)	05/06/22	0-0.25	10.8	Y
SS-03 @ 0-0.25' (40.50366 / -104.688124)	05/06/22	0-0.25	9.8	Y
SS-04 @ 0-0.25' (40.503729 / -104.688241)	05/06/22	0-0.25	9.3	Y
SS-05 @ 0-0.25' (40.503775 / -104.688333)	05/06/22	0-0.25	6.1	Y
SS-06 @ 0-0.25' (40.503798 / -104.688456)	05/06/22	0-0.25	6.5	Y
SS-07 @ 0-0.25' (40.503753 / -104.688567)	05/06/22	0-0.25	3.8	Y
SS-08 @ 0-0.25' (40.503861 / -104.688542)	05/06/22	0-0.25	4.2	Y
SS-09 @ 0-0.25' (40.503902 / -104.688416)	05/06/22	0-0.25	3.7	Y
Background-01 @ 0-0.25' (40.503408 / -104.688391)	05/06/22	0-0.25	5.6	Y
Background-02 @ 0-0.25' (40.503430 / -104.688654)	05/06/22	0-0.25	3.4	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
JANSSEN 8-G PAD  
SURFACE RELEASE  
40.503560 / -104.687816  
SE1/4 NE1/4 SEC.8 T6N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 443758  
SPILL ID 482070

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)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
<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>2</b>	<b>&lt;4</b>	<b>6-8.3</b>	<b>&lt;6</b>
SS-01 @ 0-0.25' (40.503612 / -104.687920)	05/06/22	0-0.25	10.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.519	0.460	<b>8.58</b>	3.60
SS-02 @ 0-0.25' (40.503638 / -104.687994)	05/06/22	0-0.25	10.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.473	0.415	<b>8.59</b>	2.88
SS-03 @ 0-0.25' (40.50366 / -104.688124)	05/06/22	0-0.25	9.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.283	0.255	<b>8.49</b>	1.39
SS-04 @ 0-0.25' (40.503729 / -104.688241)	05/06/22	0-0.25	9.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.236	0.285	<b>8.51</b>	1.47
SS-05 @ 0-0.25' (40.503775 / -104.688333)	05/06/22	0-0.25	6.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	30.7	<100	<0.00200	<0.00200	0.448	0.362	<b>8.48</b>	1.63
SS-06 @ 0-0.25' (40.503798 / -104.688456)	05/06/22	0-0.25	6.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.418	0.362	<b>8.47</b>	1.56
SS-07 @ 0-0.25' (40.503753 / -104.688567)	05/06/22	0-0.25	3.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.325	0.395	<b>8.49</b>	0.843
SS-08 @ 0-0.25' (40.503861 / -104.688542)	05/06/22	0-0.25	4.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.338	0.372	<b>8.48</b>	0.812
SS-09 @ 0-0.25' (40.503902 / -104.688416)	05/06/22	0-0.25	3.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.321	0.368	<b>8.43</b>	0.773
Background-01 @ 0-0.25' (40.503408 / -104.688391)	05/06/22	0-0.25	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.377	0.369	<b>8.49</b>	1.70
Background-02 @ 0-0.25' (40.503430 / -104.688654)	05/06/22	0-0.25	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.375	0.367	<b>8.41</b>	0.711
COGCC = Colorado Oil and Gas Conservation Commission      NA - Not Analyzed mg/kg = milligrams per kilogram      TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics      1,2,4-TMB = 1,2,4-Trimethylbenzene mmhos/cm = millimhos per centimeter      TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics      1,3,5-TMB = 1,3,5-Trimethylbenzene PID = Photoionization Detector      TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics ppm-v = parts per million by volume      mg/L = milligrams per liter SAR = Sodium Adsorption Ratio 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 COGCC Table 915-1 Regulatory Limits.																

TABLE 3  
PAH ANALYTICAL RESULTS SUMMARY  
JANSSEN 8-G PAD  
SURFACE RELEASE  
40.503560 / -104.687816  
SE1/4 NE1/4 SEC.8 T6N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 443758  
SPILL ID 482070

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)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)	
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>2</b>	<b>180</b>	
SS-01 @ 0-0.25' (40.503612 / -104.687920)	05/06/22	0-0.25	10.4	<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	<0.00067
SS-02 @ 0-0.25' (40.503638 / -104.687994)	05/06/22	0-0.25	10.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000461	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-03 @ 0-0.25' (40.503966 / -104.688124)	05/06/22	0-0.25	9.8	<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	<0.00067
SS-04 @ 0-0.25' (40.503729 / -104.688241)	05/06/22	0-0.25	9.3	<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	<0.00067
SS-05 @ 0-0.25' (40.503775 / -104.688333)	05/06/22	0-0.25	6.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00053	<0.00067	0.000794	<0.00067	<0.00067	0.000798	<0.00067	<0.00067	<0.00067	<0.00067	0.000993
SS-06 @ 0-0.25' (40.503798 / -104.688456)	05/06/22	0-0.25	6.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000529	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-07 @ 0-0.25' (40.503753 / -104.688567)	05/06/22	0-0.25	3.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000934	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-08 @ 0-0.25' (40.503861 / -104.688542)	05/06/22	0-0.25	4.2	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000458	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-09 @ 0-0.25' (40.503902 / -104.688416)	05/06/22	0-0.25	3.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000629	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067

COGCC = Colorado Oil and Gas Conservation Commission      PID = Photoionization Detector  
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 limit.  
Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits

TABLE 4  
 METALS ANALYTICAL RESULTS SUMMARY  
 JANSSEN 8-G PAD  
 SURFACE RELEASE  
 40.503560 / -104.687816  
 SE1/4 NE1/4 SEC.8 T6N R65W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 443758  
 SPILL ID 482070

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>			<b>0.68***</b>	<b>15,000</b>	<b>71</b>	<b>0.3**</b>	<b>3,100</b>	<b>400</b>	<b>1,500</b>	<b>390</b>	<b>390</b>	<b>23,000</b>
<b>Local Cleanup Levels</b>			<b>3.2***</b>	--	--	<b>0.1 to 1**</b>	--	--	--	--	--	--
SS-02 @ 0-0.25' (40.503568 / -104.687994)	05/06/22	0-0.25	1.52***	93.2	0.0995	<0.244**	5.75	5.27	6.3	<0.25	0.0205	24.2
Background-01 @ 0-0.25' (40.503408 / -104.688291)	05/06/22	0-0.25	3.45***	108	0.107	<0.244**	6.35	6.59	7.43	0.371	0.024	27.9
Background-02 @ 0-0.25' (40.503430 / -104.688654)	05/06/22	0-0.25	1.66***	108	0.108	<0.244**	5.98	5.31	6.51	<0.25	0.023	26.2
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels. Values presented in <b>BOLD</b> contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Arsenic is naturally occurring in Colorado. Local clean-up level (3.19 mg/kg) is 1.25*average background (2.55 mg/kg).												



## **ATTACHMENT A**

### **Photolog**

# Janssen 8-GPad

SENE Sec.8 T6N R65W 6PM

Weld County, CO

Location ID 443758

Spill ID 482070

Surface Release

April - May 2022



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.

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



# Initial Release – 04/22/22



Condensate mist NW to pad boundary. Mist observed on fencing and presumed impacts offsite – confirmation pending

Release cleanup, offsite impact confirmation, and confirmation soil sampling coordinated

# Release Assessment - 05/06/22



Looking west

No petroleum hydrocarbon staining or odor observed  
Samples collected:  
SS-01@0-0.25' – 10.4 ppm-v  
SS-02@0-0.25' – 10.8 ppm-v



Looking south

No petroleum hydrocarbon staining or odor observed  
Samples collected:  
SS-03@0-0.25' – 9.8 ppm-v



Looking south

No petroleum hydrocarbon staining or odor observed  
Samples collected:  
SS-04@0-0.25' – 9.3 ppm-v

# Release Assessment - 05/06/22



Looking west

No petroleum hydrocarbon staining or odor observed  
Samples collected:  
SS-05@0-0.25' – 6.1 ppm-v  
SS-06@0-0.25' – 6.5 ppm-v



Looking southwest

No petroleum hydrocarbon staining or odor observed  
Samples collected:  
SS-07@0-0.25' – 3.8 ppm-v  
SS-08@0-0.25' – 4.2 ppm-v



Looking east

No petroleum hydrocarbon staining or odor observed  
Samples collected:  
SS-09@0-0.25' – 3.7 ppm-v



## **ATTACHMENT B**

### **Laboratory Analytical Reports**



May 25, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Janssen 8-G Pad

Project Number - [none]

Attached are your analytical results for Bonanza - Janssen 8-G Pad received by Origins Laboratory, Inc. May 06, 2022. This project is associated with Origins project number Y205174-01.

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 - Janssen 8-G Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@0-0.25'	Y205174-01	Soil	May 6, 2022 10:15	05/06/2022 14:55
SS-02@0-0.25'	Y205174-02	Soil	May 6, 2022 10:20	05/06/2022 14:55
SS-03@0-0.25'	Y205174-03	Soil	May 6, 2022 10:25	05/06/2022 14:55
SS-04@0-0.25'	Y205174-04	Soil	May 6, 2022 10:30	05/06/2022 14:55
SS-05@0-0.25'	Y205174-05	Soil	May 6, 2022 10:35	05/06/2022 14:55
SS-06@0-0.25'	Y205174-06	Soil	May 6, 2022 10:40	05/06/2022 14:55
SS-07@0-0.25'	Y205174-07	Soil	May 6, 2022 10:45	05/06/2022 14:55
SS-08@0-0.25'	Y205174-08	Soil	May 6, 2022 10:50	05/06/2022 14:55
SS-09@0-0.25'	Y205174-09	Soil	May 6, 2022 10:55	05/06/2022 14:55

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

*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 - Janssen 8-G Pad



7205174

www.originslaboratory.com

page 1 of 1

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave  
 Wheat Ridge, CO 80033  
 Telephone Number: 303-433-0479  
 Email Address: mee3@eagle-enviro.com

Project Manager: Martin Eckert III  
 Project Name: Janssen 8-G Pad  
 Project Number: \_\_\_\_\_  
 Samples Collected By: TZ

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analyst	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil		
SS-01 @ 0-0.25'	05-06-22	1015	2 X					X		EL, SM, pH =	1
SS-02 @ 0-0.25'		1020									2
SS-03 @ 0-0.25'		1025								Submerged, Note Pop	3
SS-04 @ 0-0.25'		1030									4
SS-05 @ 0-0.25'		1035								Ⓢ MILKs needed	5
SS-06 @ 0-0.25'		1040									6
SS-07 @ 0-0.25'		1045									7
SS-08 @ 0-0.25'		1050									8
SS-09 @ 0-0.25'		1055									9
											10
Relinquished by: <i>Tear Sample</i>	Date: 05-06-22	Time: 1455	Received by: <i>[Signature]</i>	Date: 5/6/22	Time: 1455	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>					
Relinquished by:	Date:	Time:	Received by:	Date:	Time:						

Temp Received: 3.4  
 Date Results Needed: Bonanza  
 Bill to Luke

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

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

**Sample Receipt Checklist**

Origins Work Order: Y205174 Client: Eagle  
 Client Project ID: Janssen 8-G Pad

Checklist Completed by: JG Shipped Via: HD  
 Date/time completed: 5/9/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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

Cooler Number/Temperature: 1, 3.4 °C  °C  °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 5°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <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 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) JG Date/Time Reviewed 5-10-22

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 - Janssen 8-G Pad

**SS-01@0-0.25'**  
**5/6/2022 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.519		0.0999	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1004	05/10/2022	05/13/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0916	05/09/2022	05/09/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-01@0-0.25'**  
**5/6/2022 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	90.4 %		70-130			B2E09 16	05/09/2022	05/09/2022	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.883</b>		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>2.84</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-01@0-0.25'**  
**5/6/2022 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205174-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	49.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.2 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.58			pH Units	1	B2E1010	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	3.60			SAR	1	B2E1009	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.460		0.00500	mmhos/cm	1	B2E1010	05/10/2022	05/11/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-02@0-0.25'**  
**5/6/2022 10:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.473		0.0986	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1004	05/10/2022	05/13/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0916	05/09/2022	05/09/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-02@0-0.25'**  
**5/6/2022 10:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.5 %		70-130			B2E09 16	05/09/2022	05/09/2022	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.12		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.47		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000461	0.000437	0.00067	"	"	"	"	"	J
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-02@0-0.25'**  
**5/6/2022 10:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205174-02 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	44.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.59			pH Units	1	B2E1010	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	2.88			SAR	1	B2E1009	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.415		0.00500	mmhos/cm	1	B2E1010	05/10/2022	05/11/2022	
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**Total Metals by 6020B**

Arsenic	1.52	0.0855	0.25	mg/Kg	5	L615973	05/13/2022	05/18/2022	
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Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-02@0-0.25'**  
**5/6/2022 10:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205174-02 (Soil)**

**Total Metals by 6020B**

Barium	93.2	0.042	0.25	mg/Kg	5	L615973	05/13/2022	05/18/2022	
Cadmium	0.0995	0.0259	0.25	"	"	"	"	"	J
Copper	5.75	0.0806	0.25	"	"	"	"	"	
Lead	5.27	0.031	0.25	"	"	"	"	"	
Nickel	6.3	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0205	0.0067	0.25	"	"	"	"	"	J
Zinc	24.2	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L616389	05/06/2022	05/16/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-03@0-0.25'**  
**5/6/2022 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.283		0.101	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1004	05/10/2022	05/13/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0916	05/09/2022	05/09/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-03@0-0.25'**  
**5/6/2022 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	88.5 %		70-130			B2E09 16	05/09/2022	05/09/2022	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.793</b>		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>1.06</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-03@0-0.25'**  
**5/6/2022 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205174-03 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	50 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.49			pH Units	1	B2E1010	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	1.39			SAR	1	B2E1009	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.255		0.00500	mmhos/cm	1	B2E1010	05/10/2022	05/11/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-04@0-0.25'**  
**5/6/2022 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.236		0.0985	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1004	05/10/2022	05/13/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0916	05/09/2022	05/09/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-04@0-0.25'**  
**5/6/2022 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	92.4 %		70-130			B2E09 16	05/09/2022	05/09/2022	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.908</b>		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>1.20</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-04@0-0.25'**  
**5/6/2022 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205174-04 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.51			pH Units	1	B2E1010	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	1.47			SAR	1	B2E1009	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.285		0.00500	mmhos/cm	1	B2E1010	05/10/2022	05/11/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-05@0-0.25'**  
**5/6/2022 10:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.448		0.102	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	30.7		25.0	mg/kg	1	B2E1004	05/10/2022	05/16/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	99.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0916	05/09/2022	05/09/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
Surrogate: Toluene-d8	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 - Janssen 8-G Pad

SS-05@0-0.25'  
 5/6/2022 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y205174-05 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	99.7 %		70-130			B2E09 16	05/09/2022	05/09/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.22		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.51		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00053	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000794	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000798	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-05@0-0.25'**  
**5/6/2022 10:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205174-05 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	<b>0.000993</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	51.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.8 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.48</b>			pH Units	1	B2E1010	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	<b>1.63</b>			SAR	1	B2E1009	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.362</b>		0.00500	mmhos/cm	1	B2E1010	05/10/2022	05/11/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-06@0-0.25'**  
**5/6/2022 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.418		0.0995	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1004	05/10/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0916	05/09/2022	05/09/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-06@0-0.25'**  
**5/6/2022 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-06 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.5 %		70-130			B2E09 16	05/09/2022	05/09/2022	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>1.24</b>		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>1.47</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	<b>0.000529</b>	<b>0.000437</b>	0.00067	"	"	"	"	"	J
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-06@0-0.25'**  
**5/6/2022 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205174-06 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	66 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.47			pH Units	1	B2E1010	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	1.56			SAR	1	B2E1009	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.362		0.00500	mmhos/cm	1	B2E1010	05/10/2022	05/11/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-07@0-0.25'**  
**5/6/2022 10:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.325		0.102	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1004	05/10/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0916	05/09/2022	05/09/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-07@0-0.25'**  
**5/6/2022 10:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-07 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	99.3 %		70-130			B2E09 16	05/09/2022	05/09/2022	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.87		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.966		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000934	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-07@0-0.25'**  
**5/6/2022 10:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205174-07 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.4 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.49</b>			pH Units	1	B2E1010	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	<b>0.843</b>			SAR	1	B2E1009	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.395</b>		0.00500	mmhos/cm	1	B2E1010	05/10/2022	05/11/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-08@0-0.25'**  
**5/6/2022 10:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.338		0.0993	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1004	05/10/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	108 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0916	05/09/2022	05/09/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-08@0-0.25'**  
**5/6/2022 10:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-08 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.3 %		70-130			B2E09 16	05/09/2022	05/09/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.78		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.909		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000458	0.000437	0.00067	"	"	"	"	"	J
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-08@0-0.25'**  
**5/6/2022 10:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205174-08 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	51.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.2 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.48			pH Units	1	B2E1010	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	0.812			SAR	1	B2E1009	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.372		0.00500	mmhos/cm	1	B2E1010	05/10/2022	05/11/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

**SS-09@0-0.25'**  
**5/6/2022 10:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.321		0.100	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1004	05/10/2022	05/13/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	05/16/2022	U

Surrogate: o-Terphenyl	94.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0916	05/09/2022	05/09/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-09@0-0.25'**  
**5/6/2022 10:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205174-09 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.0 %		70-130			B2E09 16	05/09/2022	05/09/2022	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>1.95</b>		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>0.896</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	<b>0.000629</b>	<b>0.000437</b>	0.00067	"	"	"	"	"	J
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**SS-09@0-0.25'**  
**5/6/2022 10:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205174-09 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L616483	05/17/2022	05/17/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	50.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.7 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.43			pH Units	1	B2E1010	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	0.773			SAR	1	B2E1009	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.368		0.00500	mmhos/cm	1	B2E1010	05/10/2022	05/11/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2E0916 - EPA 5030 (soil)**

**Blank (B2E0916-BLK1)**

Prepared: 05/09/2022 Analyzed: 05/09/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	108		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.8		70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E0916 - EPA 5030 (soil)

**LCS (B2E0916-BS1)**

Prepared: 05/09/2022 Analyzed: 05/09/2022

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.0997	0.00200	"	0.100		99.7	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.0989	0.00200	"	0.100		98.9	70-130			
Naphthalene	0.0972	0.0100	"	0.100		97.2	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.0981	0.00200	"	0.100		98.1	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E0916 - EPA 5030 (soil)

Matrix Spike (B2E0916-MS1)	Source: Y205174-01			Prepared: 05/09/2022 Analyzed: 05/09/2022						
1,2,4-Trimethylbenzene	0.0993	0.00200	mg/kg	0.100	ND	99.3	70-130			
1,3,5-Trimethylbenzene	0.0992	0.00200	"	0.100	ND	99.2	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Naphthalene	0.0997	0.0100	"	0.100	ND	99.7	70-130			
Toluene	0.106	0.00200	"	0.100	ND	106	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E0916 - EPA 5030 (soil)

Matrix Spike Dup (B2E0916-MSD1)	Source: Y205174-01			Prepared: 05/09/2022 Analyzed: 05/09/2022						
1,2,4-Trimethylbenzene	0.0829	0.00200	mg/kg	0.100	ND	82.9	70-130	18.0	20	
1,3,5-Trimethylbenzene	0.0825	0.00200	"	0.100	ND	82.5	70-130	18.4	20	
Benzene	0.0909	0.00200	"	0.100	ND	90.9	70-130	14.1	20	
Ethylbenzene	0.0820	0.00200	"	0.100	ND	82.0	70-130	20.3	20	QM-07
Naphthalene	0.0852	0.0100	"	0.100	ND	85.2	70-130	15.8	20	
Toluene	0.0875	0.00200	"	0.100	ND	87.5	70-130	18.7	20	
o-Xylene	0.0830	0.00200	"	0.100	ND	83.0	70-130	19.3	20	
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.7	70-130	20.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2E1004 - EPA 3580</b>										
<b>Blank (B2E1004-BLK1)</b>										
					Prepared: 05/10/2022 Analyzed: 05/13/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		109	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2E1004 - EPA 3580**

**LCS (B2E1004-BS1)**

Prepared: 05/10/2022 Analyzed: 05/13/2022

Diesel (C10-C28)	963	50.0	mg/kg	1000		96.3	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.9	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2E1004 - EPA 3580**

<b>Matrix Spike (B2E1004-MS1)</b>	<b>Source: Y205174-01</b>			<b>Prepared: 05/10/2022 Analyzed: 05/13/2022</b>						
Diesel (C10-C28)	979	50.0	mg/kg	1000	ND	97.9	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.7	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2E1004 - EPA 3580**

<b>Matrix Spike Dup (B2E1004-MSD1)</b>	<b>Source: Y205174-01</b>			<b>Prepared: 05/10/2022 Analyzed: 05/13/2022</b>						
Diesel (C10-C28)	840	50.0	mg/kg	1000	ND	84.0	70-130	15.3	35	
Residual Range Organics (C28-C40)	916	200	"	1000	ND	91.6	70-130	21.2	35	
Surrogate: o-Terphenyl	41		"	49.8		82.4	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2E1011 - Default Prep Metals**

**Blank (B2E1011-BLK1)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Boron	ND	0.100	mg/L							U
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**Duplicate (B2E1011-DUP1)**

**Source: Y205174-01**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Boron	0.338	0.0995	mg/L		0.519			42.2	50	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2E1010 - NO PREP**

**Blank (B2E1010-BLK1)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

pH	0.00		pH Units							U
Specific Conductance (EC)	ND	0.0300	mmhos/cm							U

**Duplicate (B2E1010-DUP1)**

**Source: Y205164-08**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Specific Conductance (EC)	0.982	0.0300	mmhos/cm		0.771			24.0	25	
pH	7.97		pH Units		8.22			3.09	25	

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**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 L616483 - 3550B**

<b>MSD (L 91162-MSD-L616483)</b>		<b>Source: 91162</b>			Prepared: 05/17/2022 Analyzed: 05/17/2022					
Acenaphthene	0.0901	0.00152	mg/Kg	0.165	0.00167	53.5	30-130	17.6	30	
Fluorene	0.0824	0.00143	"	0.165	<0.00143	49.9	30-130	20.9	30	
Fluoranthene	0.0937	0.00197	"	0.165	<0.00197	56.7	30-130	6.9	30	
Dibenz(a,h)anthracene	0.0795	0.00307	"	0.165	<0.00307	48.1	30-130	7	30	
Chrysene	0.109	0.00312	"	0.165	<0.00312	66	30-130	11.6	30	
Benzo(k)fluoranthene	0.115	0.00219	"	0.165	0.00283	67.9	30-130	11	30	
Benzo(b)fluoranthene	0.0619	0.00293	"	0.165	<0.00293	37.5	30-130	25.7	30	
Benzo(a)anthracene	0.0893	0.00247	"	0.165	<0.00247	54.1	30-130	12.1	30	
Indeno(1,2,3-cd)pyrene	0.0494	0.00314	"	0.165	<0.00314	29.9	30-130	6.9	30	*
2-Methylnaphthalene	0.0773	0.00323	"	0.165	<0.00323	46.8	30-130	26.8	30	
1-Methylnaphthalene	0.107	0.00182	"	0.165	<0.00182	64.8	30-130	12.6	30	
Anthracene	0.0977	0.00167	"	0.165	<0.00167	59.2	30-130	7.3	30	
Benzo(a)pyrene	0.1	0.00234	"	0.165	<0.00234	60.6	30-130	13.5	30	
Pyrene	0.0943	0.00322	"	0.165	<0.00322	57.1	30-130	12	30	
Naphthalene	0.0873	0.00242	"	0.165	<0.00242	52.9	30-130	16.8	30	
Surrogate: 2-Fluorobiphenyl	51.2		"	0.33	172	51.2	33-115			
Surrogate: Nitrobenzene-d5	58.4		"	0.33	211	58.4	29-110			
Surrogate: 4-Terphenyl-d14	63.3		"	0.33	214	63.3	33-122			

<b>MS (L 91162-MS-L616483)</b>		<b>Source: 91162</b>			Prepared: 05/17/2022 Analyzed: 05/17/2022					
Chrysene	0.097	0.00312	mg/Kg	0.163	<0.00312	59.5	30-130			
Fluoranthene	0.0874	0.00197	"	0.163	<0.00197	53.6	30-130			
Fluorene	0.0668	0.00143	"	0.163	<0.00143	40.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0461	0.00314	"	0.163	<0.00314	28.2	30-130			*
Naphthalene	0.0737	0.00242	"	0.163	<0.00242	45.2	30-130			
Pyrene	0.0836	0.00322	"	0.163	<0.00322	51.2	30-130			
Dibenz(a,h)anthracene	0.0741	0.00307	"	0.163	<0.00307	45.4	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 - Janssen 8-G Pad

**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 L616483 - 3550B**

<b>MS (L 91162-MS-L616483)</b>		<b>Source: 91162</b>			Prepared: 05/17/2022 Analyzed: 05/17/2022					
Benzo(k)fluoranthene	0.103	0.00219	mg/Kg	0.163	0.00283	61.4	30-130			
Acenaphthene	0.0755	0.00152	"	0.163	0.00167	45.2	30-130			
Benzo(a)pyrene	0.0873	0.00234	"	0.163	<0.00234	53.5	30-130			
1-Methylnaphthalene	0.0943	0.00182	"	0.163	<0.00182	57.8	30-130			
Benzo(a)anthracene	0.0791	0.00247	"	0.163	<0.00247	48.5	30-130			
Anthracene	0.0908	0.00167	"	0.163	<0.00167	55.7	30-130			
Benzo(b)fluoranthene	0.0478	0.00293	"	0.163	<0.00293	29.3	30-130			*
2-Methylnaphthalene	0.059	0.00323	"	0.163	<0.00323	36.1	30-130			

Surrogate: Nitrobenzene-d5 53.2  
 Surrogate: 2-Fluorobiphenyl 42.8  
 Surrogate: 4-Terphenyl-d14 56.8

<b>LCS (LCS-L616483)</b>		Prepared: 05/17/2022 Analyzed: 05/17/2022								
Benzo(a)anthracene	0.0935	0.000493	mg/Kg	0.167		55.9	30-130			
Anthracene	0.0922	0.000334	"	0.167		55.2	30-130			
1-Methylnaphthalene	0.0801	0.000364	"	0.167		47.9	30-130			
2-Methylnaphthalene	0.08	0.000645	"	0.167		47.9	30-130			
Benzo(a)pyrene	0.0997	0.000468	"	0.167		59.7	30-130			
Naphthalene	0.0809	0.000484	"	0.167		48.4	30-130			
Acenaphthene	0.0845	0.000304	"	0.167		50.5	30-130			
Pyrene	0.0935	0.000643	"	0.167		55.9	30-130			
Benzo(k)fluoranthene	0.0999	0.000437	"	0.167		59.8	30-130			
Chrysene	0.0993	0.000624	"	0.167		59.4	30-130			
Dibenz(a,h)anthracene	0.112	0.000614	"	0.167		67	30-130			
Fluoranthene	0.0931	0.000394	"	0.167		55.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0955	0.000627	"	0.167		57.1	30-130			
Benzo(b)fluoranthene	0.0937	0.000585	"	0.167		56.1	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**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 L616483 - 3550B**

**LCS (LCS-L616483)**

Prepared: 05/17/2022 Analyzed: 05/17/2022

Fluorene	0.0844	0.000286	mg/Kg	0.167		50.5	30-130			
Surrogate: 4-Terphenyl-d14	66.9		"	0.333		66.9	33-122			
Surrogate: 2-Fluorobiphenyl	49.5		"	0.333		49.5	33-115			
Surrogate: Nitrobenzene-d5	58.8		"	0.333		58.8	29-110			

**LRB (LRB-L616483)**

Prepared: 05/17/2022 Analyzed: 05/17/2022

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(a)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	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	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	57.9		"	0.333		57.9	33-115			
Surrogate: 4-Terphenyl-d14	72.6		"	0.333		72.6	33-122			
Surrogate: Nitrobenzene-d5	63.9		"	0.333		63.9	29-110			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615973 - 3050B**

<b>MSD (L 89114-MSD-L615973)</b>		<b>Source: 89114</b>			Prepared: 05/13/2022 Analyzed: 05/18/2022					
Lead	12.1	0.031	mg/Kg	2.46	9.73	96	75-125	3.2	80	
Zinc	69	0.534	"	24.6	47.8	86	75-125	7.6	80	
Silver	0.492	0.0067	"	0.492	0.0395	92	75-125	3.3	80	
Nickel	15.9	0.0633	"	2.46	13.3	106	75-125	3.7	80	
Copper	13.2	0.0806	"	2.46	11.3	77	75-125	8.6	80	
Cadmium	0.609	0.0259	"	0.492	0.191	85	75-125	8.7	80	
Barium	188	0.042	"	4.92	160	570	75-125	6	80	*
Arsenic	3.76	0.0855	"	2.46	2.38	56	75-125	1	80	I*
Selenium	2.61	0.103	"	4.92	<0.103	53	75-125	1.1	80	I*

<b>MS (L 89114-MS-L615973)</b>		<b>Source: 89114</b>			Prepared: 05/13/2022 Analyzed: 05/18/2022					
Arsenic	3.8	0.0855	mg/Kg	2.48	2.38	57	75-125			I*
Barium	177	0.042	"	4.97	160	342	75-125			*
Cadmium	0.665	0.0259	"	0.497	0.191	95	75-125			
Copper	14.4	0.0806	"	2.48	11.3	125	75-125			
Lead	12.5	0.031	"	2.48	9.73	112	75-125			
Nickel	16.5	0.0633	"	2.48	13.3	129	75-125			*
Selenium	2.64	0.103	"	4.97	<0.103	53	75-125			I*
Silver	0.509	0.0067	"	0.497	0.0395	95	75-125			
Zinc	74.5	0.534	"	24.8	47.8	108	75-125			

<b>LCS (LCS-L615973)</b>					Prepared: 05/13/2022 Analyzed: 05/18/2022					
Nickel	2.39	0.0633	mg/Kg	2.5		96	80-120			
Zinc	24.3	0.534	"	25		97	80-120			
Arsenic	2.47	0.0855	"	2.5		99	80-120			
Barium	5.02	0.042	"	5		100	80-120			
Cadmium	0.468	0.0259	"	0.5		94	80-120			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615973 - 3050B**

**LCS (LCS-L615973)**

Prepared: 05/13/2022 Analyzed: 05/18/2022

Copper	2.35	0.0806	mg/Kg	2.5		94	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			
Silver	0.492	0.0067	"	0.5		98	80-120			
Selenium	4.48	0.103	"	5		90	80-120			

**LRB (LRB-L615973)**

Prepared: 05/13/2022 Analyzed: 05/18/2022

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

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

*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 - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L616389 -</b>										
<b>DUP (L 89057-DUP)</b>		<b>Source: 89057</b>			Prepared: Analyzed: 05/16/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500		-	0	20	
<b>MS (L 89057-MS)</b>		<b>Source: 89057</b>			Prepared: Analyzed: 05/16/2022					
Chromium, Hexavalent	4.54	0.244	mg/Kg	7.81	<0.244	58	75-125			*
<b>LCS (LCS)</b>		Prepared: Analyzed: 05/16/2022								
Chromium, Hexavalent	7.4	0.244	mg/Kg	8		93	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 05/16/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Janssen 8-G Pad

---

**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.

J Estimated Value. Analyte below reported quantitation limit.

I\* [Undefined]

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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May 23, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Janssen 8-G Pad

Project Number - [none]

Attached are your analytical results for Bonanza - Janssen 8-G Pad received by Origins Laboratory, Inc. May 06, 2022. This project is associated with Origins project number Y205178-01.

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



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

Martin C Eckert III  
Project Number: [none]  
Project: Bonanza - Janssen 8-G Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@0-0.25'	Y205178-01	Soil	May 6, 2022 11:10	05/06/2022 14:55
Background-02@0-0.25'	Y205178-02	Soil	May 6, 2022 11:20	05/06/2022 14:55

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 - Janssen 8-G Pad

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

**Sample Receipt Checklist**

Origins Work Order: Y205178 Client: Eagle  
 Client Project ID: Janssen 8-G Pad

Checklist Completed by: JG Shipped Via: HD  
 Date/time completed: 5/9/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7004

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <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 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) JG Date/Time Reviewed 5-10-22

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 - Janssen 8-G Pad

**Background-01@0-0.25'**  
**5/6/2022 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205178-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.377		0.0993	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.24		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.59		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.49			pH Units	1	B2E1013	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	1.70			SAR	1	B2E1012	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.369		0.00500	mmhos/cm	1	B2E1013	05/10/2022	05/11/2022	
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**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L616389	05/06/2022	05/16/2022	
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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 - Janssen 8-G Pad

**Background-01@0-0.25'**

**5/6/2022 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y205178-01 (Soil)**

**Total Metals by 6020B**

Arsenic	3.45	0.0855	0.25	mg/Kg	5	L615564	05/11/2022	05/19/2022	
Barium	108	0.042	0.25	"	"	"	"	"	
Cadmium	0.107	0.0259	0.25	"	"	"	"	"	J
Copper	6.35	0.0806	0.25	"	"	"	"	"	
Lead	6.59	0.031	0.25	"	"	"	"	"	
Nickel	7.43	0.0633	0.25	"	"	"	"	"	
Selenium	0.371	0.103	0.25	"	"	"	"	"	
Silver	0.024	0.0067	0.25	"	"	"	"	"	J
Zinc	27.9	0.534	2.5	"	"	"	"	"	

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 - Janssen 8-G Pad

**Background-02@0-0.25'**

**5/6/2022 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205178-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.375		0.0988	mg/L	1	B2E1011	05/10/2022	05/11/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.83		0.499	meq/L	10	[CALC]	05/10/2022	05/11/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.809		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.41			pH Units	1	B2E1013	05/10/2022	05/11/2022	
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**SAR by 20B Saturated Paste**

SAR	0.711			SAR	1	B2E1012	05/10/2022	05/11/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.367		0.00500	mmhos/cm	1	B2E1013	05/10/2022	05/11/2022	
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**Total Metals by 6020B**

Arsenic	1.66	0.0855	0.25	mg/Kg	5	L615973	05/13/2022	05/18/2022	
Barium	108	0.042	0.25	"	"	"	"	"	
Cadmium	0.108	0.0259	0.25	"	"	"	"	"	J
Copper	5.98	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

**Background-02@0-0.25'**

**5/6/2022 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y205178-02 (Soil)**

**Total Metals by 6020B**

Lead	5.31	0.031	0.25	mg/Kg	5	L615973	05/13/2022	05/18/2022	
Nickel	6.51	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.023	0.0067	0.25	"	"	"	"	"	J
Zinc	26.2	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L616389	05/06/2022	05/16/2022	
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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 - Janssen 8-G Pad

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2E1013 - NO PREP**

**Blank (B2E1013-BLK1)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Specific Conductance (EC)	0.00110	0.0300	mmhos/cm
pH	0.00		pH Units

**Duplicate (B2E1013-DUP1)**

**Source: Y205175-06**

Prepared: 05/10/2022 Analyzed: 05/11/2022

pH	8.12		pH Units	8.16		0.491	25
Specific Conductance (EC)	1.84	0.0300	mmhos/cm	1.89		2.42	25

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615973 - 3050B**

<b>MSD (L 89114-MSD-L615973)</b>		<b>Source: 89114</b>			Prepared: 05/13/2022 Analyzed: 05/18/2022					
Arsenic	3.76	0.0855	mg/Kg	2.46	2.38	56	75-125	1	80	I*
Barium	188	0.042	"	4.92	160	570	75-125	6	80	*
Cadmium	0.609	0.0259	"	0.492	0.191	85	75-125	8.7	80	
Copper	13.2	0.0806	"	2.46	11.3	77	75-125	8.6	80	
Lead	12.1	0.031	"	2.46	9.73	96	75-125	3.2	80	
Nickel	15.9	0.0633	"	2.46	13.3	106	75-125	3.7	80	
Selenium	2.61	0.103	"	4.92	89114	53	75-125	1.1	80	I*
Silver	0.492	0.0067	"	0.492	0.0395	92	75-125	3.3	80	
Zinc	69	0.534	"	24.6	47.8	86	75-125	7.6	80	

<b>MS (L 89114-MS-L615973)</b>		<b>Source: 89114</b>			Prepared: 05/13/2022 Analyzed: 05/18/2022					
Nickel	16.5	0.0633	mg/Kg	2.48	13.3	129	75-125			*
Silver	0.509	0.0067	"	0.497	0.0395	95	75-125			
Selenium	2.64	0.103	"	4.97	89114	53	75-125			I*
Zinc	74.5	0.534	"	24.8	47.8	108	75-125			
Copper	14.4	0.0806	"	2.48	11.3	125	75-125			
Cadmium	0.665	0.0259	"	0.497	0.191	95	75-125			
Arsenic	3.8	0.0855	"	2.48	2.38	57	75-125			I*
Barium	177	0.042	"	4.97	160	342	75-125			*
Lead	12.5	0.031	"	2.48	9.73	112	75-125			

<b>LCS (LCS-L615973)</b>		Prepared: 05/13/2022 Analyzed: 05/18/2022								
Copper	2.35	0.0806	mg/Kg	2.5		94	80-120			
Arsenic	2.47	0.0855	"	2.5		99	80-120			
Zinc	24.3	0.534	"	25		97	80-120			
Cadmium	0.468	0.0259	"	0.5		94	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			

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 - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615973 - 3050B**

**LCS (LCS-L615973)**

Prepared: 05/13/2022 Analyzed: 05/18/2022

Nickel	2.39	0.0633	mg/Kg	2.5		96	80-120			
Selenium	4.48	0.103	"	5		90	80-120			
Silver	0.492	0.0067	"	0.5		98	80-120			
Barium	5.02	0.042	"	5		100	80-120			

**LRB (LRB-L615973)**

Prepared: 05/13/2022 Analyzed: 05/18/2022

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

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Bonanza - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L616389 -</b>										
<b>DUP (L 89057-DUP)</b>		<b>Source: 89057</b>			Prepared: Analyzed: 05/16/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		89057		-	0	20	
<b>MS (L 89057-MS)</b>		<b>Source: 89057</b>			Prepared: Analyzed: 05/16/2022					
Chromium, Hexavalent	4.54	0.244	mg/Kg	7.81	89057	58	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 05/16/2022					
Chromium, Hexavalent	7.4	0.244	mg/Kg	8		93	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 05/16/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615564 - 3050B**

<b>MSD (L 89061-MSD-L615564)</b>		<b>Source: Y205178-01</b>			<b>Prepared: 05/11/2022 Analyzed: 05/19/2022</b>					
Silver	0.48	0.0067	mg/Kg	0.46	0.024	99	75-125	3	80	
Zinc	48.7	0.534	"	23	27.9	90	75-125	5.2	80	
Selenium	4.17	0.103	"	4.6	0.371	83	75-125	7.1	80	
Nickel	9.3	0.0633	"	2.3	7.43	81	75-125	4.1	80	
Lead	7.67	0.031	"	2.3	6.59	47	75-125	2.8	80	*
Copper	8.45	0.0806	"	2.3	6.35	91	75-125	0.8	80	
Cadmium	0.564	0.0259	"	0.46	0.107	99	75-125	1.9	80	
Barium	110	0.042	"	4.6	108	43	75-125	4.4	80	*
Arsenic	4.94	0.0855	"	2.3	3.45	65	75-125	7	80	*

<b>MS (L 89061-MS-L615564)</b>		<b>Source: Y205178-01</b>			<b>Prepared: 05/11/2022 Analyzed: 05/19/2022</b>					
Barium	115	0.042	mg/Kg	4.72	108	148	75-125			*
Cadmium	0.575	0.0259	"	0.472	0.107	99	75-125			
Copper	8.52	0.0806	"	2.36	6.35	92	75-125			
Lead	7.89	0.031	"	2.36	6.59	55	75-125			*
Nickel	9.69	0.0633	"	2.36	7.43	96	75-125			
Selenium	4.48	0.103	"	4.72	0.371	87	75-125			
Silver	0.495	0.0067	"	0.472	0.024	100	75-125			
Arsenic	5.3	0.0855	"	2.36	3.45	78	75-125			
Zinc	51.3	0.534	"	23.6	27.9	99	75-125			

<b>LCS (LCS-L615564)</b>		<b>Prepared: 05/11/2022 Analyzed: 05/19/2022</b>								
Lead	2.38	0.031	mg/Kg	2.5		95	80-120			
Arsenic	2.46	0.0855	"	2.5		98	80-120			
Cadmium	0.506	0.0259	"	0.5		101	80-120			
Copper	2.43	0.0806	"	2.5		97	80-120			
Nickel	2.42	0.0633	"	2.5		97	80-120			

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 - Janssen 8-G Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615564 - 3050B**

**LCS (LCS-L615564)**

Prepared: 05/11/2022 Analyzed: 05/19/2022

Selenium	5.01	0.103	mg/Kg	5		100	80-120			
Silver	0.495	0.0067	"	0.5		99	80-120			
Zinc	24.9	0.534	"	25		100	80-120			
Barium	4.97	0.042	"	5		99	80-120			

**LRB (LRB-L615564)**

Prepared: 05/11/2022 Analyzed: 05/19/2022

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

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
Project Number: [none]  
Project: Bonanza - Janssen 8-G Pad

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### Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

I\* [Undefined]

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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