

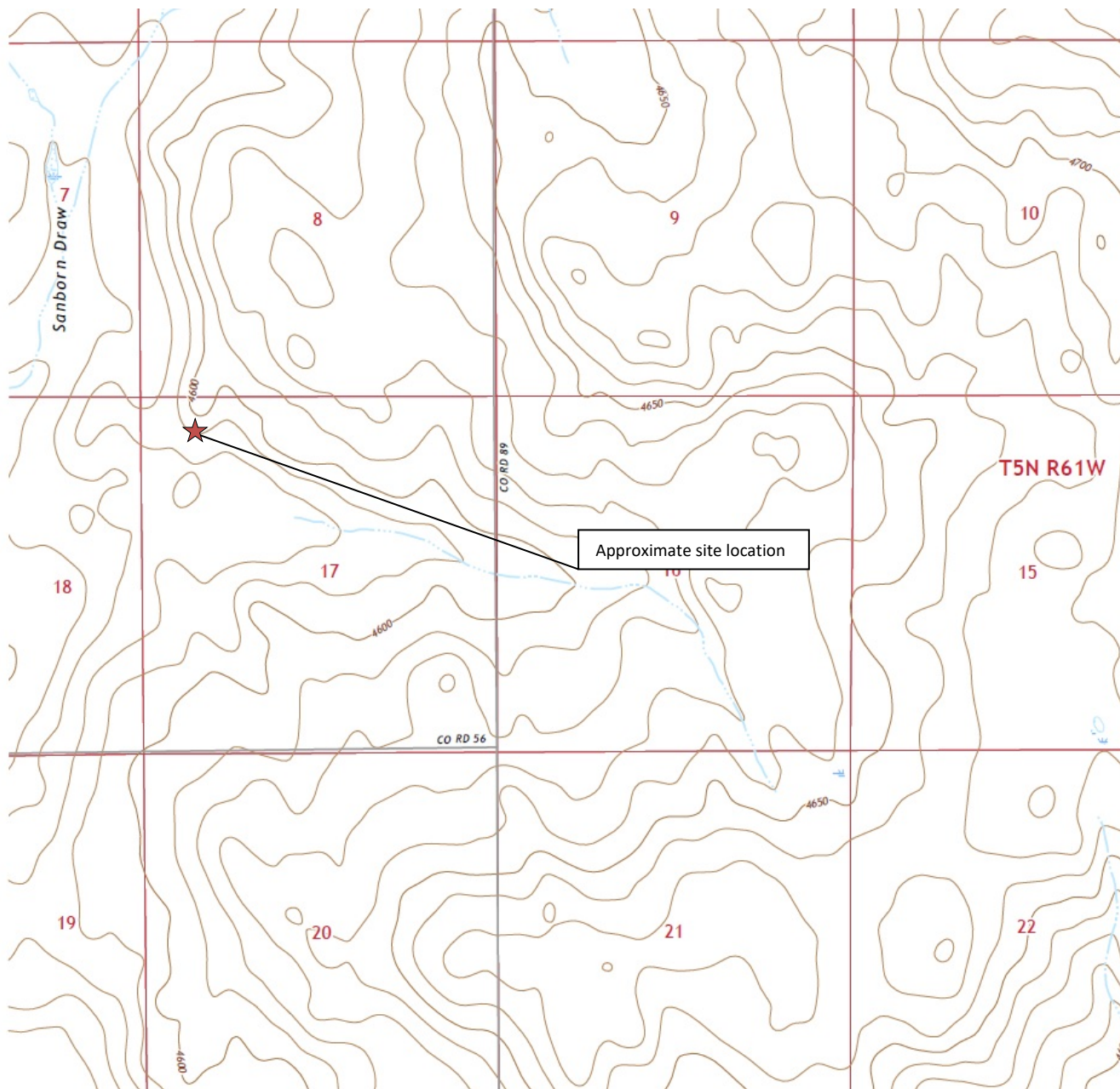


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Sample Location Map



Topographic Site Location Map
 Pronghorn F-17 Pad
 Separator Release
 40.407069 / -104.239348
 NW¼ NW¼ SEC.17 T5N R61W 6PM
 Weld County, Colorado
 Location ID 437059
 Spill ID 482001



EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.

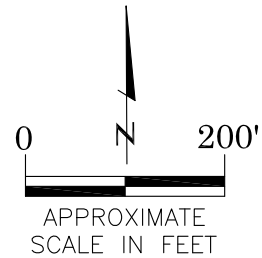
Source: USGS 7.5 Minute Topographic
 Map, Greasewood Lake, CO
 Quadrangle 2022

Figure 1



LEGEND

- APPROXIMATE FACILITY BOUNDARIES
- APPROXIMATE RELEASE LOCATION



AERIAL SITE LOCATION MAP
 PRONGHORN F-17 PAD
 SEPARATOR RELEASE
 40.407069 / -104.239348
 NW¼ NW¼ SEC.17 T5N R61W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 437059
 SPILL ID 482001

DATE: 05/25/22

FIG. NO.
2

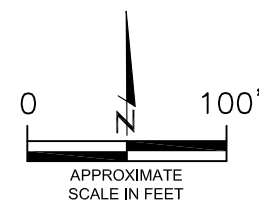
DRAWN BY:
AMN



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

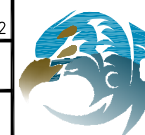
LEGEND

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



SOIL SAMPLE LOCATION MAP
PRONGHORN F-17 PAD
SEPARATOR RELEASE
40.407069 / -104.239348
NW¼ NW¼ SEC.17 T5N R614W 6PM
WELD COUNTY, COLORADO
LOCATION ID 437059
SPILL ID 482001

DATE:
05/25/22
DRAWN BY:
AMN
FIG.
NO. 3



EAGLE
ENVIRONMENTAL
CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary

Table 4: Metals Analytical Results Summary

TABLE 1
PID READING SUMMARY
PRONGHORN F-17 PAD
SEPARATOR RELEASE
40.407069 / -104.239348
NW1/4 NW1/4 SEC.17 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 437059
SPILL ID 482001

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
SS-01 @ 0.25' (40.407053228 / -104.239390317)	04/27/22	0.25	6.3	Y
SS-02 @ 0.25' (40.407002359 / -104.239461701)	04/27/22	0.25	16.4	Y
SS-03 @ 0.25' (40.407007708 / -104.239568442)	04/27/22	0.25	15.9	Y
SS-04 @ 0.25' (40.406943868 / -104.239633084)	04/27/22	0.25	14.2	Y
SS-05 @ 0.25' (40.406953502 / -104.239768346)	04/27/22	0.25	13.4	Y
SS-06 @ 0.25' (40.406919025 / -104.239848061)	04/27/22	0.25	12.7	Y
Background-01 @ 0-0.25' (40.407271668 / -104.239286114)	04/27/22	0-0.25	16.4	Y
Background-02 @ 0-0.25' (40.406633417 / -104.239685472)	04/27/22	0-0.25	16.7	Y
SS-07 @ 0-0.25' (40.406960798 / -104.239992927)	04/29/22	0-0.25	4.3	Y
SS-08 @ 0-0.25' (40.406930993 / -104.240101161)	04/29/22	0-0.25	6.2	Y
SS-09 @ 0-0.25' (40.406900419 / -104.240215113)	04/29/22	0-0.25	5.5	Y
SS-10 @ 0-0.25' (40.406865393 / -104.240324057)	04/29/22	0-0.25	3.9	Y
SS-11 @ 0-0.25' (40.406838315 / -104.240434353)	04/29/22	0-0.25	6.1	Y
SS-12 @ 0-0.25' (40.406808186 / -104.240546192)	04/29/22	0-0.25	4.6	Y
SS-13 @ 0-0.25' (40.406767605 / -104.240653409)	04/29/22	0-0.25	5.3	Y
SS-14 @ 0-0.25' (40.406731061 / -104.240758313)	04/29/22	0-0.25	7.1	Y
SS-15 @ 0-0.25' (40.406692579 / -104.240871529)	04/29/22	0-0.25	6.6	Y
SS-16 @ 0-0.25' (40.406652587 / -104.241000291)	04/29/22	0-0.25	6.7	Y
SS-17 @ 0-0.25' (40.406658969 / -104.24099716)	05/02/22	0-0.25	7.2	Y
SS-18 @ 0-0.25' (40.406692508 / -104.240894991)	05/02/22	0-0.25	6.9	Y
SS-19 @ 0-0.25' (40.406723646 / -104.240773468)	05/02/22	0-0.25	7.7	Y
SS-20 @ 0-0.25' (40.406754399 / -104.240663572)	05/02/22	0-0.25	8.1	Y
SS-21 @ 0-0.25' (40.406781255 / -104.240538061)	05/02/22	0-0.25	6.4	Y
SS-22 @ 0-0.25' (40.406807731 / -104.240434181)	05/02/22	0-0.25	7.5	Y
SS-23 @ 0-0.25' (40.406835249 / -104.240314301)	05/02/22	0-0.25	7.2	Y
SS-24 @ 0-0.25' (40.406852237 / -104.240200595)	05/02/22	0-0.25	6.8	Y

TABLE 1
PID READING SUMMARY
PRONGHORN F-17 PAD
SEPARATOR RELEASE
40.407069 / -104.239348
NW1/4 NW1/4 SEC.17 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 437059
SPILL ID 482001

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
SS-25 @ 0-0.25' (40.406881015 / -104.240089751)	05/02/22	0-0.25	7.1	Y
SS-26 @ 0-0.25' (40.40689999 / -104.239970024)	05/02/22	0-0.25	7.3	Y
SS-27 @ 0-0.25' (40.406865687 / -104.23996722)	05/02/22	0-0.25	8.4	Y
SS-28 @ 0-0.25' (40.406839177 / -104.240080183)	05/02/22	0-0.25	6.9	Y
SS-29 @ 0-0.25' (40.406817712 / -104.240197273)	05/02/22	0-0.25	9.2	Y
SS-30 @ 0-0.25' (40.406788016 / -104.240309769)	05/02/22	0-0.25	5.9	Y
SS-31 @ 0-0.25' (40.406755041 / -104.240422552)	05/02/22	0-0.25	6.2	Y
SS-32 @ 0-0.25' (40.406728102 / -104.240537783)	05/02/22	0-0.25	6.4	Y
SS-33 @ 0-0.25' (40.406696782 / -104.240648673)	05/02/22	0-0.25	5.8	Y
SS-34 @ 0-0.25' (40.406661208 / -104.240758235)	05/02/22	0-0.25	6.7	Y
SS-35 @ 0-0.25' (40.406623399 / -104.240864494)	05/02/22	0-0.25	7.3	Y
SS-36 @ 0-0.25' (40.406583632 / -104.240967782)	05/02/22	0-0.25	6.6	Y
SS-37 @ 0-0.25' (40.406560846 / -104.240949661)	05/02/22	0-0.25	6.1	Y
SS-38 @ 0-0.25' (40.406623274 / -104.240864301)	05/02/22	0-0.25	7.4	Y
SS-39 @ 0-0.25' (40.406583941 / -104.240834758)	05/02/22	0-0.25	6.8	Y
SS-40 @ 0-0.25' (40.406611291 / -104.240718195)	05/02/22	0-0.25	6.7	Y
SS-41 @ 0-0.25' (40.406636239 / -104.240604022)	05/02/22	0-0.25	5.5	Y
SS-42 @ 0-0.25' (40.406657688 / -104.240490151)	05/02/22	0-0.25	6.2	Y
SS-43 @ 0-0.25' (40.406688357 / -104.240381126)	05/02/22	0-0.25	6.1	Y
SS-44 @ 0-0.25' (40.406715451 / -104.240265752)	05/02/22	0-0.25	5.7	Y
SS-45 @ 0-0.25' (40.406749463 / -104.240155015)	05/02/22	0-0.25	7.1	Y
SS-46 @ 0-0.25' (40.406791495 / -104.240040257)	05/02/22	0-0.25	6.5	Y
SS-47 @ 0-0.25' (40.406809863 / -104.2399454)	05/02/22	0-0.25	6.2	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
PRONGHORN F-17 PAD
SEPARATOR RELEASE
40.407069 / -104.239348
NW1/4 NW1/4 SEC.17 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 437059
SPILL ID 482001

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
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
SS-01 @ 0.25' (40.407053228 / -104.239390317)	04/27/22	0.25	6.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.161	0.398	8.38	0.332
SS-02 @ 0.25' (40.407002359 / -104.239461701)	04/27/22	0.25	16.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.222	0.436	8.34	0.290
SS-03 @ 0.25' (40.407007708 / -104.239568442)	04/27/22	0.25	15.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.218	0.463	8.36	0.298
SS-04 @ 0.25' (40.406943868 / -104.239633084)	04/27/22	0.25	14.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.282	1.54	8.07	0.106
SS-05 @ 0.25' (40.406953502 / -104.239768346)	04/27/22	0.25	13.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.303	0.633	7.57	0.0730
SS-06 @ 0.25' (40.406919025 / -104.239848061)	04/27/22	0.25	12.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.300	0.481	7.84	0.0689
Background-01 @ 0-0.25' (40.407271668 / -104.239286114)	04/27/22	0-0.25	16.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.218	0.421	8.37	0.0754
Background-02 @ 0-0.25' (40.406633417 / -104.239685472)	04/27/22	0-0.25	16.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.223	0.488	8.42	0.0764
SS-07 @ 0-0.25' (40.406960798 / -104.239992927)	04/29/22	0-0.25	4.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	0.0134	0.00206	0.180	0.214	8.42	0.108
SS-08 @ 0-0.25' (40.406930993 / -104.240101161)	04/29/22	0-0.25	6.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.182	0.221	8.40	0.0630
SS-09 @ 0-0.25' (40.406900419 / -104.240215113)	04/29/22	0-0.25	5.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.198	0.220	8.42	0.0593
SS-10 @ 0-0.25' (40.406865393 / -104.240324057)	04/29/22	0-0.25	3.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.243	0.263	8.46	0.0424
SS-11 @ 0-0.25' (40.406838315 / -104.240434353)	04/29/22	0-0.25	6.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.279	0.334	8.40	0.0470
SS-12 @ 0-0.25' (40.406808186 / -104.240546192)	04/29/22	0-0.25	4.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.301	0.357	8.39	0.0449
SS-13 @ 0-0.25' (40.406767605 / -104.240653409)	04/29/22	0-0.25	5.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.298	0.417	8.39	0.0488
SS-14 @ 0-0.25' (40.406731061 / -104.240758313)	04/29/22	0-0.25	7.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.321	0.368	8.14	0.0444
SS-15 @ 0-0.25' (40.406692579 / -104.240871529)	04/29/22	0-0.25	6.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.256	0.439	8.17	0.0497
SS-16 @ 0-0.25' (40.406652587 / -104.241000291)	04/29/22	0-0.25	6.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.236	0.415	8.16	0.0440
SS-17 @ 0-0.25' (40.406658969 / -104.24099716)	05/02/22	0-0.25	7.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.103	0.203	8.35	0.184
SS-18 @ 0-0.25' (40.406692508 / -104.240894991)	05/02/22	0-0.25	6.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0998	0.187	8.46	0.215
SS-19 @ 0-0.25' (40.406723646 / -104.240773468)	05/02/22	0-0.25	7.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.101	0.193	8.50	0.168
SS-20 @ 0-0.25' (40.406754399 / -104.240663572)	05/02/22	0-0.25	8.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0999	0.177	8.48	0.195
SS-21 @ 0-0.25' (40.406781255 / -104.240538061)	05/02/22	0-0.25	6.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0996	0.186	8.50	0.196
SS-22 @ 0-0.25' (40.406807731 / -104.240434181)	05/02/22	0-0.25	7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.101	0.0414	8.37	0.173
SS-23 @ 0-0.25' (40.406835249 / -104.240314301)	05/02/22	0-0.25	7.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.118	0.187	8.41	0.169

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
PRONGHORN F-17 PAD
SEPARATOR RELEASE
40.407069 / -104.239348
NW1/4 NW1/4 SEC.17 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 437059
SPILL ID 482001

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
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
SS-24 @ 0-0.25' (40.406852237 / -104.240200595)	05/02/22	0-0.25	6.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0987	0.190	8.43	0.158
SS-25 @ 0-0.25' (40.406881015 / -104.240089751)	05/02/22	0-0.25	7.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.0989	0.195	8.40	0.128
SS-26 @ 0-0.25' (40.40689999 / -104.239970024)	05/02/22	0-0.25	7.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0997	0.203	8.48	0.145
SS-27 @ 0-0.25' (40.406865687 / -104.23996722)	05/02/22	0-0.25	8.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.182	8.48	0.144
SS-28 @ 0-0.25' (40.406839177 / -104.240080183)	05/02/22	0-0.25	6.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.0989	0.190	8.45	0.134
SS-29 @ 0-0.25' (40.406817712 / -104.240197273)	05/02/22	0-0.25	9.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0987	0.188	8.47	0.163
SS-30 @ 0-0.25' (40.406788016 / -104.240309769)	05/02/22	0-0.25	5.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.177	0.233	8.31	0.0364
SS-31 @ 0-0.25' (40.406755041 / -104.240422552)	05/02/22	0-0.25	6.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.199	0.235	8.51	0.0428
SS-32 @ 0-0.25' (40.406728102 / -104.240537783)	05/02/22	0-0.25	6.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.101	0.192	8.49	0.144
SS-33 @ 0-0.25' (40.406696782 / -104.240648673)	05/02/22	0-0.25	5.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0988	0.183	8.49	0.162
SS-34 @ 0-0.25' (40.406661208 / -104.240758235)	05/02/22	0-0.25	6.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.141	0.185	8.44	0.0862
SS-35 @ 0-0.25' (40.406623399 / -104.240864494)	05/02/22	0-0.25	7.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.178	0.216	8.50	0.0551
SS-36 @ 0-0.25' (40.406583632 / -104.240967782)	05/02/22	0-0.25	6.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.160	0.182	8.49	0.0847
SS-37 @ 0-0.25' (40.406560846 / -104.240949661)	05/02/22	0-0.25	6.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.139	0.193	8.55	0.0898
SS-38 @ 0-0.25' (40.406623274 / -104.240864301)	05/02/22	0-0.25	7.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.120	0.183	8.46	0.0867
SS-39 @ 0-0.25' (40.406583941 / -104.240834758)	05/02/22	0-0.25	6.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.178	0.218	8.42	0.0390
SS-40 @ 0-0.25' (40.406611291 / -104.240718195)	05/02/22	0-0.25	6.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.161	0.210	8.49	0.116
SS-41 @ 0-0.25' (40.406636239 / -104.240604022)	05/02/22	0-0.25	5.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.137	0.217	8.49	0.128
SS-42 @ 0-0.25' (40.406657688 / -104.240490151)	05/02/22	0-0.25	6.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.160	0.244	8.37	0.0720

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
PRONGHORN F-17 PAD
SEPARATOR RELEASE
40.407069 / -104.239348
NW1/4 NW1/4 SEC.17 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 437059
SPILL ID 482001

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
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
SS-43 @ 0-0.25' (40.406688357 / -104.240381126)	05/02/22	0-0.25	6.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.139	0.249	8.41	0.0754
SS-44 @ 0-0.25' (40.406715451 / -104.240265752)	05/02/22	0-0.25	5.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.160	0.259	8.36	0.0736
SS-45 @ 0-0.25' (40.406749463 / -104.240155015)	05/02/22	0-0.25	7.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.179	0.260	8.41	0.0724
SS-46 @ 0-0.25' (40.406791495 / -104.240040257)	05/02/22	0-0.25	6.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.159	0.208	8.46	0.0963
SS-47 @ 0-0.25' (40.406809863 / -104.2399454)	05/02/22	0-0.25	6.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.181	0.224	8.50	0.0629
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector 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 BOLD contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels.																

TABLE 3
PAH ANALYTICAL RESULTS SUMMARY
PRONGHORN F-17 PAD
SEPARATOR RELEASE
40.407069 / -104.239348
NW1/4 NW1/4 SEC.17 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 437059
SPILL ID 482001

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)
COGCC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
SS-01 @ 0.25' (40.407053228 / -104.239390317)	04/27/22	0.25	6.3	<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
SS-02 @ 0.25' (40.407002359 / -104.239461701)	04/27/22	0.25	16.4	<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
SS-03 @ 0.25' (40.407007708 / -104.239568442)	04/27/22	0.25	15.9	<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 @ 0.25' (40.406943869 / -104.239633084)	04/27/22	0.25	14.2	0.00122	0.00127	<0.00067	<0.00067	<0.00067	0.00119	<0.00067	<0.00067	0.000905	<0.00067	<0.00067	0.000641	<0.00067	<0.00067	0.000742
SS-05 @ 0.25' (40.406953502 / -104.239768346)	04/27/22	0.25	13.4	0.00113	0.00118	<0.00067	<0.00067	<0.00067	0.00105	<0.00067	<0.00067	0.000691	<0.00067	<0.00067	0.00056	<0.00067	<0.00067	0.000761
SS-06 @ 0.25' (40.406919025 / -104.239848061)	04/27/22	0.25	12.7	0.000973	0.00106	<0.00067	<0.00067	<0.00067	0.00111	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00037	<0.00067	<0.00067	<0.00067
SS-07 @ 0-0.25' (40.406960798 / -104.239992927)	04/29/22	0-0.25	4.3	<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
SS-08 @ 0-0.25' (40.406930993 / -104.240101161)	04/29/22	0-0.25	6.2	<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-09 @ 0-0.25' (40.406900419 / -104.240215113)	04/29/22	0-0.25	5.5	<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-10 @ 0-0.25' (40.406865393 / -104.240324057)	04/29/22	0-0.25	3.9	<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-11 @ 0-0.25' (40.406838315 / -104.240434353)	04/29/22	0-0.25	6.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-12 @ 0-0.25' (40.406808186 / -104.240546192)	04/29/22	0-0.25	4.6	<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-13 @ 0-0.25' (40.406767605 / -104.240653409)	04/29/22	0-0.25	5.3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000784	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-14 @ 0-0.25' (40.406731061 / -104.240758313)	04/29/22	0-0.25	7.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00108	0.000948	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000957	<0.00067	<0.00067
SS-15 @ 0-0.25' (40.406692579 / -104.240871529)	04/29/22	0-0.25	6.6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000881	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-16 @ 0-0.25' (40.406652587 / -104.241000291)	04/29/22	0-0.25	6.7	<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-17 @ 0-0.25' (40.406658969 / -104.24099716)	05/02/22	0-0.25	7.2	<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-18 @ 0-0.25' (40.406692508 / -104.240894991)	05/02/22	0-0.25	6.9	<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-19 @ 0-0.25' (40.406723646 / -104.240773468)	05/02/22	0-0.25	7.7	<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-20 @ 0-0.25' (40.406754399 / -104.240663572)	05/02/22	0-0.25	8.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-21 @ 0-0.25' (40.406781255 / -104.240538061)	05/02/22	0-0.25	6.4	<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
SS-22 @ 0-0.25' (40.406807731 / -104.240434181)	05/02/22	0-0.25	7.5	<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-23 @ 0-0.25' (40.406835249 / -104.240314301)	05/02/22	0-0.25	7.2	<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-24 @ 0-0.25' (40.406852237 / -104.240200595)	05/02/22	0-0.25	6.8	<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
SS-25 @ 0-0.25' (40.406881015 / -104.24089751)	05/02/22	0-0.25	7.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-26 @ 0-0.25' (40.40689999 / -104.239970024)	05/02/22	0-0.25	7.3	<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
SS-27 @ 0-0.25' (40.406865687 / -104.23996722)	05/02/22	0-0.25	8.4	<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
SS-28 @ 0-0.25' (40.406839177 / -104.240808183)	05/02/22	0-0.25	6.9	<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-29 @ 0-0.25' (40.406817712 / -104.240197273)	05/02/22	0-0.25	9.2	<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-30 @ 0-0.25' (40.406788016 / -104.240309769)	05/02/22	0-0.25	5.9	<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-31 @ 0-0.25' (40.406755041 / -104.240422552)	05/02/22	0-0.25	6.2	<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-32 @ 0-0.25' (40.406728102 / -104.240537783)	05/02/22	0-0.25	6.4	<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
SS-33 @ 0-0.25' (40.406969782 / -104.240648673)	05/02/22	0-0.25	5.8	<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

TABLE 3
PAH ANALYTICAL RESULTS SUMMARY
PRONGHORN F-17 PAD
SEPARATOR RELEASE
40.407069 / -104.239348
NW1/4 NW1/4 SEC.17 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 437059
SPILL ID 482001

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)
COGCC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
SS-34 @ 0-0.25' (40.406661208 / -104.240758235)	05/02/22	0-0.25	6.7	<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-35 @ 0-0.25' (40.406623399 / -104.240864494)	05/02/22	0-0.25	7.3	<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
SS-36 @ 0-0.25' (40.406583632 / -104.240967782)	05/02/22	0-0.25	6.6	<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-37 @ 0-0.25' (40.406560846 / -104.240949661)	05/02/22	0-0.25	6.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-38 @ 0-0.25' (40.406623274 / -104.240864301)	05/02/22	0-0.25	7.4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000788	<0.00067	<0.00067	0.00175	<0.00067	<0.00067
SS-39 @ 0-0.25' (40.406583941 / -104.240834758)	05/02/22	0-0.25	6.8	<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
SS-40 @ 0-0.25' (40.406611291 / -104.240718195)	05/02/22	0-0.25	6.7	<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-41 @ 0-0.25' (40.406636239 / -104.240604022)	05/02/22	0-0.25	5.5	<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-42 @ 0-0.25' (40.406657688 / -104.240490151)	05/02/22	0-0.25	6.2	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000554	<0.00067	<0.00067	<0.00067	0.000257	<0.00067	<0.00067	0.00273	<0.00067	<0.00067
SS-43 @ 0-0.25' (40.406688357 / -104.240381126)	05/02/22	0-0.25	6.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-44 @ 0-0.25' (40.406715451 / -104.240265752)	05/02/22	0-0.25	5.7	<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-45 @ 0-0.25' (40.406749463 / -104.240155015)	05/02/22	0-0.25	7.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000722	0.0006	<0.00067	<0.00067	0.000646	<0.00067	<0.00067	0.00162	<0.00067	<0.00067
SS-46 @ 0-0.25' (40.406791495 / -104.24040257)	05/02/22	0-0.25	6.5	<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-47 @ 0-0.25' (40.406809863 / -104.2399454)	05/02/22	0-0.25	6.2	<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
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
PRONGHORN F-17 PAD
SEPARATOR RELEASE
40.407069 / -104.239348
NW1/4 NW1/4 SEC.17 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 437059
SPILL ID 482001

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)
COGCC Table 915-1 Residential Screening Levels			0.68***	15,000	71	0.3**	3,100	400	1,500	390	390	23,000
Local Cleanup Levels			5.61***	--	--	0.1 to 1**	--	--	--	--	--	--
SS-02 @ 0.25' (40.407003359 / -104.239461701)	04/27/22	0.25	3.1***	60.5	0.0717	<0.504**	5.38	6.78	7.53	0.286	0.02	34.3
Background-01 @ 0-0.25' (40.407271668 / -104.239286114)	04/27/22	0-0.25	6.43***	75.1	0.0907	<0.504**	5.87	6.42	6.95	0.205	0.0149	26.7
Background-02 @ 0-0.25' (40.406633417 / -104.239685472)	04/27/22	0-0.25	2.56***	54.5	0.0473	<0.5**	3.77	5.25	4.62	<0.25	0.0188	21.6
SS-14 @ 0-0.25' (40.406731061 / -104.240758313)	04/29/22	0-0.25	2.41***	67.5	0.0865	<0.512**	4.03	5.67	5.04	0.211	0.0143	24
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 BOLD 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 (5.61 mg/kg) is 1.25*average background (4.49 mg/kg).												



ATTACHMENT A

Photolog

Pronghorn F-17 Pad

NWNW Sec.17 T5N R61W 6PM

Weld County, CO

Location ID 437059

Spill ID 482001

Separator 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 – 04/16/22



Oil release from separator to tank battery/pad surface and adjacent vegetation

Release cleanup / confirmation sampling coordinated

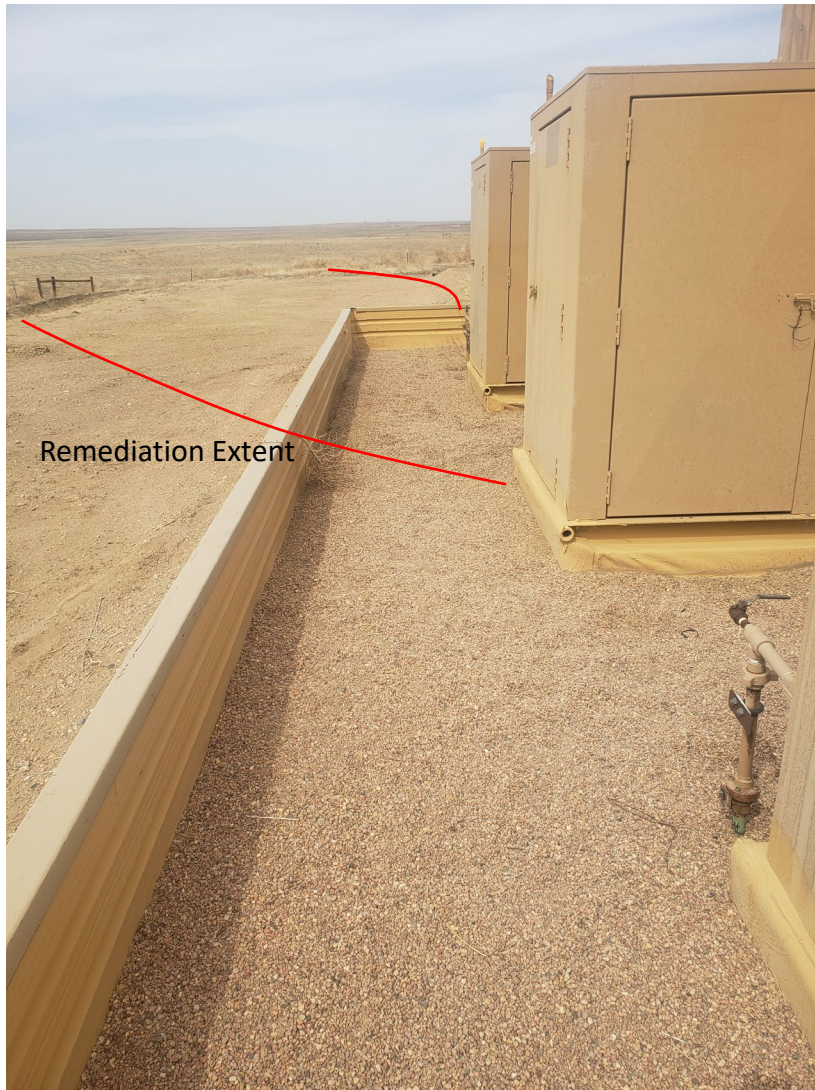
Initial Release – 04/16/22



Oil release from separator to tank battery/pad surface and adjacent vegetation

Release cleanup / confirmation sampling coordinated

Release Assessment / Confirmation Sampling – 04/27/22-05/02/22

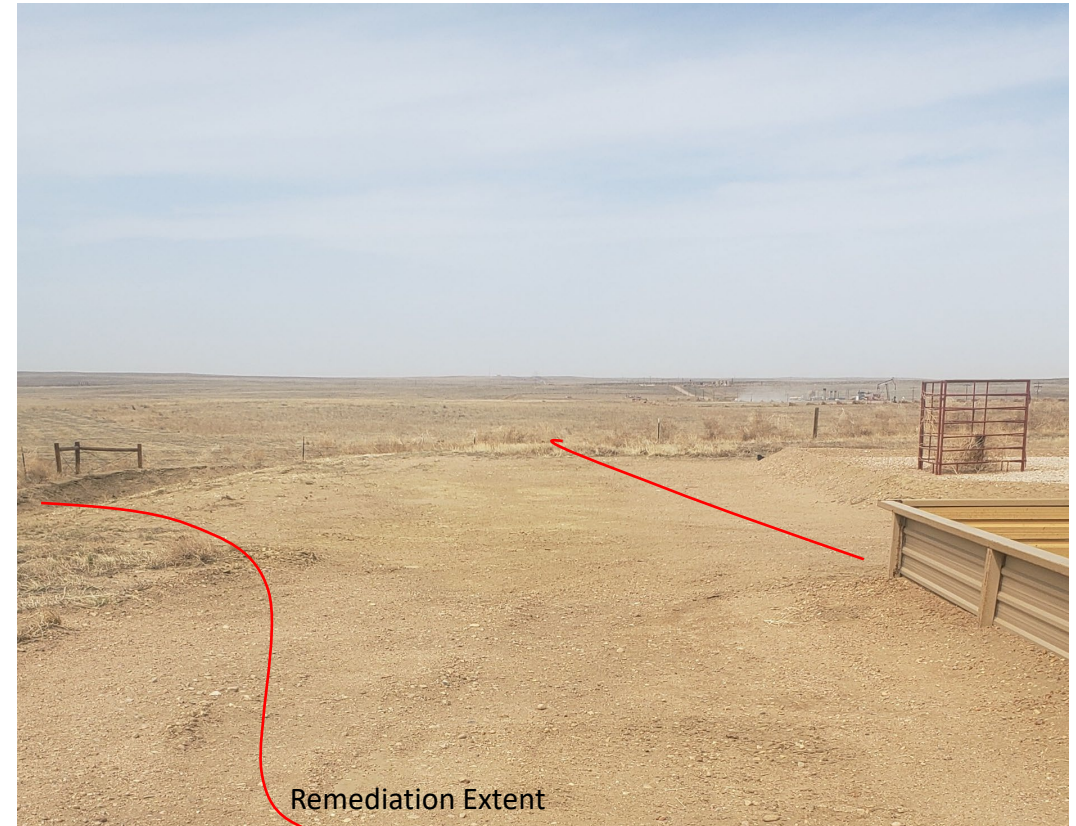


Looking west

Surficial spray/hydrocarbon staining removed

No residual petroleum hydrocarbon staining or odor observed

Surficial confirmation samples, SS-01 through SS-47, collected (~1 / 500 sqft)



Release Assessment / Confirmation Sampling – 04/27/22-05/02/22



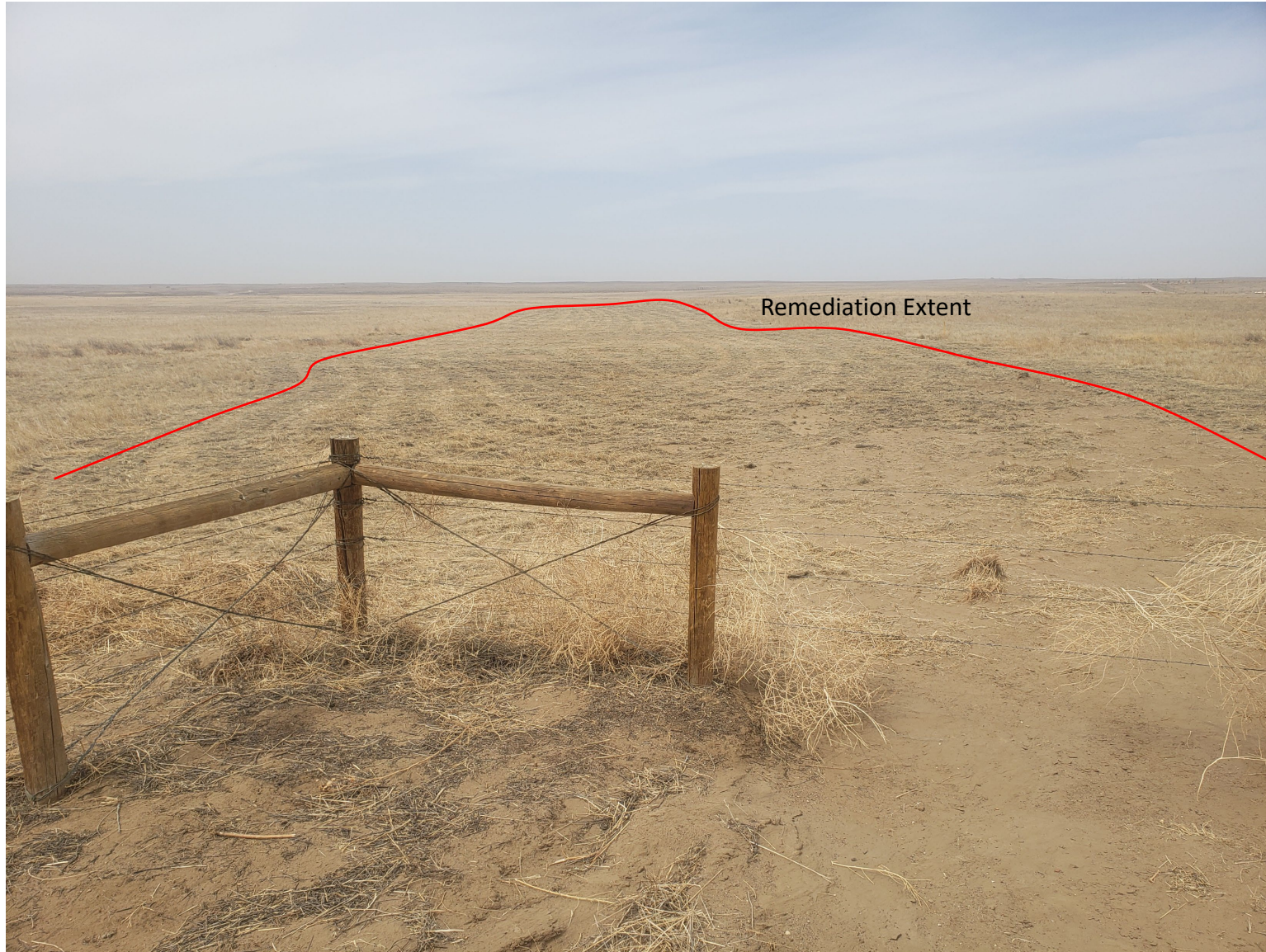
Looking east

Surficial spray/hydrocarbon staining removed

No residual petroleum hydrocarbon staining or odor observed

Surficial confirmation samples, SS-01 through SS-47, collected (~1 / 500 sqft)

Release Assessment / Confirmation Sampling – 04/27/22-05/02/22



Looking west

Surficial spray/hydrocarbon staining removed

No residual petroleum hydrocarbon staining or odor observed

Surficial confirmation samples, SS-01 through SS-47, collected (~1 / 500 sqft)



ATTACHMENT B

Laboratory Analytical Reports



May 11, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Pronghorn F-17 Pad

Project Number - [none]

Attached are your analytical results for Bonanza - Pronghorn F-17 Pad received by Origins Laboratory, Inc. April 27, 2022. This project is associated with Origins project number Y204645-01.

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 - Pronghorn F-17 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@0.25'	Y204645-01	Soil	April 27, 2022 11:15	04/27/2022 15:40
SS-02@0.25'	Y204645-02	Soil	April 27, 2022 11:20	04/27/2022 15:40
SS-03@0.25'	Y204645-03	Soil	April 27, 2022 11:25	04/27/2022 15:40
SS-04@0.25'	Y204645-04	Soil	April 27, 2022 11:30	04/27/2022 15:40
SS-05@0.25'	Y204645-05	Soil	April 27, 2022 11:35	04/27/2022 15:40
SS-06@0.25'	Y204645-06	Soil	April 27, 2022 11:40	04/27/2022 15:40

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 - Pronghorn F-17 Pad

ORIGINS
LABORATORY, INC

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: mce3@eagle-enviro.com

Project Manager: Martin Eckert III
Project Name: Pronghorn F-17 PAD
Project Number: [blank]
Samples Collected By: TC

www.originslaboratory.com

page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	Preservative				Matrix		Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summa		
SS-01 @ 0.25'	04-27-22	1115	X				X		EC-SMA pH-	1
SS-02 @ 0.25'		1120						X	Substant Paste Pig?	2
SS-03 @ 0.25'		1125						X		3
SS-04 @ 0.25'		1130						X		4
SS-05 @ 0.25'		1135						X		5
SS-06 @ 0.25'		1140						X		6
										7
										8
										9
										10

Relinquished By: Trevor Copple

Relinquished By: [blank]

Date: 04-27-22

Date: [blank]

Time: 1540

Time: [blank]

Received By: [Signature]

Received By: [blank]

Date: 4/27/22

Date: [blank]

Time: 1540

Time: [blank]

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

Temp Received: 0.1

Date Results Needed: Bonanza

Origins Laboratory, Inc.

J. Bynon

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y204645

Client: Eagle

Client Project ID: Pronghorn F-17 Pad

Checklist Completed by: SG

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

Date/time completed: 4/28/22

Airbill #: N/A

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

Cooler Number/Temperature: 1, 0.1 °C 1 °C 1 °C 1 °C

Thermometer ID: T004

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

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

Reviewed by (Project Manager) [Signature]

4/29/22
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-01@0.25'

4/27/2022 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-01 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.161	0.101	mg/L	1	B2D2823	KAP	04/28/2022	04/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D2901	ZZZ	04/29/2022	05/03/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	80.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2813	ZZZ	04/28/2022	04/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"

Metals by Saturated Paste by EPA 6010

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 - Pronghorn F-17 Pad

SS-01@0.25'

4/27/2022 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Y204645-01 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	1.65	0.499	meq/L	10	[CALC]	KAP	04/28/2022	04/29/2022
Magnesium	1.19	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.38		pH Units	1	B2D2824	TCT	04/28/2022	04/29/2022
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SAR by 20B Saturated Paste

SAR	0.332		SAR	1	B2D2804	KAP	04/28/2022	04/29/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.398	0.00500	mmhos/cm	1	B2D2825	TCT	04/28/2022	04/29/2022
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Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-01@0.25'

4/27/2022 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Y204645-01 (Soil)
Waypoint Analytical, Inc.

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	66.9 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	89.4 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	61.7 %	29-110		"	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-02@0.25'

4/27/2022 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-02 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.222	0.101	mg/L	1	B2D2823	KAP	04/28/2022	04/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D2901	ZZZ	04/29/2022	05/03/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	86.5 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2813	ZZZ	04/28/2022	04/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"

Metals by Saturated Paste by EPA 6010

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 - Pronghorn F-17 Pad

SS-02@0.25'

4/27/2022 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Y204645-02 (Soil)

Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	1.72	0.499	meq/L	10	[CALC]	KAP	04/28/2022	04/29/2022
Magnesium	1.23	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.34		pH Units	1	B2D2824	TCT	04/28/2022	04/29/2022
----	------	--	----------	---	---------	-----	------------	------------

SAR by 20B Saturated Paste

SAR	0.290		SAR	1	B2D2804	KAP	04/28/2022	04/29/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.436	0.00500	mmhos/cm	1	B2D2825	TCT	04/28/2022	04/29/2022
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Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-02@0.25'

4/27/2022 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-02 (Soil)
Waypoint Analytical, Inc.

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	63 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	79.4 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	59.7 %	29-110			"		"	"	

Total Metals by 6020B

Arsenic	3.1	0.25	mg/Kg	5	L613817		05/02/2022	05/04/2022	
Barium	60.5	0.25	"	"	"		"	"	
Cadmium	0.0717	0.25	"	"	"		"	"	J
Copper	5.38	0.25	"	"	"		"	"	
Lead	6.78	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 - Pronghorn F-17 Pad

SS-02@0.25'

4/27/2022 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-02 (Soil)

Waypoint Analytical, Inc.

Total Metals by 6020B

Nickel	7.53	0.25	mg/Kg	5	L613817		05/02/2022	05/04/2022	
Selenium	0.286	0.25	"	"	"		"	"	
Silver	0.02	0.25	"	"	"		"	"	J
Zinc	34.3	2.5	"	"	"		"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.504	mg/Kg	1	L614483		04/27/2022	05/06/2022	
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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 - Pronghorn F-17 Pad

SS-03@0.25'

4/27/2022 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-03 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.218	0.0989	mg/L	1	B2D2823	KAP	04/28/2022	04/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D2901	ZZZ	04/29/2022	05/03/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	71.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2813	ZZZ	04/28/2022	04/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130			"	"	"

Metals by Saturated Paste by EPA 6010

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 - Pronghorn F-17 Pad

SS-03@0.25'

4/27/2022 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-03 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	1.93	0.499	meq/L	10	[CALC]	KAP	04/28/2022	04/29/2022
Magnesium	1.37	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.36		pH Units	1	B2D2824	TCT	04/28/2022	04/29/2022
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SAR by 20B Saturated Paste

SAR	0.298		SAR	1	B2D2804	KAP	04/28/2022	04/29/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.463	0.00500	mmhos/cm	1	B2D2825	TCT	04/28/2022	04/29/2022
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Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-03@0.25'

4/27/2022 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-03 (Soil)
Waypoint Analytical, Inc.

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	61.7 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	77.1 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	57.5 %	29-110		"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-04@0.25'

4/27/2022 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-04 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.282	0.101	mg/L	1	B2D2823	KAP	04/28/2022	04/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D2901	ZZZ	04/29/2022	05/03/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	58.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2813	ZZZ	04/28/2022	04/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"

Metals by Saturated Paste by EPA 6010

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 - Pronghorn F-17 Pad

SS-04@0.25'

4/27/2022 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-04 (Soil)

Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	2.43	0.499	meq/L	10	[CALC]	KAP	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.07		pH Units	1	B2D2824	TCT	04/28/2022	04/29/2022
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SAR by 20B Saturated Paste

SAR	0.106		SAR	1	B2E0305	KAP	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.54	0.00500	mmhos/cm	1	B2D2825	TCT	04/28/2022	04/29/2022
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Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	0.00122	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022
2-Methylnaphthalene	0.00127	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-04@0.25'

4/27/2022 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-04 (Soil)

Waypoint Analytical, Inc.

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022	
Benzo(a)pyrene	0.00119	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000905	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	0.000641	0.00067	"	"	"		"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.000742	0.00067	"	"	"		"	"	
Surrogate: 2-Fluorobiphenyl	64.6 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	79.6 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	60.1 %	29-110			"		"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-05@0.25'

4/27/2022 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-05 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.303	0.101	mg/L	1	B2D2823	KAP	04/28/2022	04/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D2901	ZZZ	04/29/2022	05/03/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	86.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2813	ZZZ	04/28/2022	04/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Metals by Saturated Paste by EPA 6010

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 - Pronghorn F-17 Pad

SS-05@0.25'

4/27/2022 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-05 (Soil)

Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	3.59	0.499	meq/L	10	[CALC]	KAP	04/29/2022	05/02/2022
Magnesium	1.21	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.57		pH Units	1	B2D2917	TSH	04/29/2022	04/30/2022
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SAR by 20B Saturated Paste

SAR	0.0730		SAR	1	B2D2913	KAP	04/29/2022	05/02/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.633	0.00500	mmhos/cm	1	B2D2916	TSH	04/29/2022	04/30/2022
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Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	0.00113	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022
2-Methylnaphthalene	0.00118	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-05@0.25'

4/27/2022 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-05 (Soil)
Waypoint Analytical, Inc.

PAH by 8270D SIM

Benzo(a)pyrene	0.00105	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000691	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	0.00056	0.00067	"	"	"		"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.000761	0.00067	"	"	"		"	"	
Surrogate: 2-Fluorobiphenyl	69.8 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	85.1 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	63.7 %	29-110			"		"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-06@0.25'

4/27/2022 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-06 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.300	0.0999	mg/L	1	B2D2823	KAP	04/28/2022	04/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D2901	ZZZ	04/29/2022	05/03/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	64.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2813	ZZZ	04/28/2022	04/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	154 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	124 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	72.9 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

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 - Pronghorn F-17 Pad

SS-06@0.25'

4/27/2022 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-06 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	2.90	0.499	meq/L	10	[CALC]	KAP	04/29/2022	05/02/2022
Magnesium	0.955	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.84		pH Units	1	B2D2917	TSH	04/29/2022	04/30/2022
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SAR by 20B Saturated Paste

SAR	0.0689		SAR	1	B2D2913	KAP	04/29/2022	05/02/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.481	0.00500	mmhos/cm	1	B2D2916	TSH	04/29/2022	04/30/2022
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Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	0.000973	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022
2-Methylnaphthalene	0.00106	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-06@0.25'

4/27/2022 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204645-06 (Soil)
Waypoint Analytical, Inc.

PAH by 8270D SIM

Benzo(a)pyrene	0.00111	0.00067	mg/Kg	1	L614354		05/06/2022	05/06/2022	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	0.00037	0.00067	"	"	"		"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	68.8 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	82.4 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	63 %	29-110		"	"	"

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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 - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D2813 - EPA 5030 (soil)										
Blank (B2D2813-BLK1)					Prepared: 04/28/2022 Analyzed: 04/28/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D2813 - EPA 5030 (soil)										
LCS (B2D2813-BS1)					Prepared: 04/28/2022 Analyzed: 04/28/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.0963	0.0100	"	0.100		96.3	70-130			
Toluene	0.111	0.00200	"	0.100		111	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.209	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D2813 - EPA 5030 (soil)										
Matrix Spike (B2D2813-MS1)		Source: Y204645-01			Prepared: 04/28/2022 Analyzed: 04/28/2022					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Naphthalene	0.0986	0.0100	"	0.100	ND	98.6	70-130			
Toluene	0.110	0.00200	"	0.100	ND	110	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
m,p-Xylene	0.209	0.00400	"	0.200	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D2813 - EPA 5030 (soil)										
Matrix Spike Dup (B2D2813-MSD1)		Source: Y204645-01			Prepared: 04/28/2022 Analyzed: 04/28/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	1.11	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	4.58	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	1.20	20	
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	0.843	20	
Naphthalene	0.135	0.0100	"	0.100	ND	135	70-130	31.5	20	QM-07
Toluene	0.118	0.00200	"	0.100	ND	118	70-130	6.96	20	
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130	5.76	20	
m,p-Xylene	0.212	0.00400	"	0.200	ND	106	70-130	1.24	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.4	70-130			

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Bonanza - Pronghorn F-17 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 B2D2901 - EPA 3550B

Blank (B2D2901-BLK1)

Prepared: 04/29/2022 Analyzed: 05/03/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.6	50-150			

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8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Bonanza - Pronghorn F-17 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 B2D2901 - EPA 3550B

LCS (B2D2901-BS1)

Prepared: 04/29/2022 Analyzed: 05/03/2022

Diesel (C10-C28)	742	50.0	mg/kg	1000		74.2	70-130			
Residual Range Organics (C28-C40)	871	200	"	1000		87.1	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Bonanza - Pronghorn F-17 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 B2D2901 - EPA 3550B

Matrix Spike (B2D2901-MS1)		Source: Y204645-01			Prepared: 04/29/2022 Analyzed: 05/03/2022					
Diesel (C10-C28)	675	50.0	mg/kg	1000	ND	67.5	70-130			QM-07
Residual Range Organics (C28-C40)	792	200	"	1000	ND	79.2	70-130			
Surrogate: o-Terphenyl	38		"	49.8		77.1	50-150			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 B2D2901 - EPA 3550B

Matrix Spike Dup (B2D2901-MSD1)		Source: Y204645-01			Prepared: 04/29/2022 Analyzed: 05/03/2022					
Diesel (C10-C28)	753	50.0	mg/kg	1000	ND	75.3	70-130	11.0	35	
Residual Range Organics (C28-C40)	877	200	"	1000	ND	87.7	70-130	10.1	35	
Surrogate: o-Terphenyl	42		"	49.8		84.3	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D2824 - NO PREP

Duplicate (B2D2824-DUP1)		Source: Y204632-06		Prepared: 04/28/2022 Analyzed: 04/29/2022						
pH	8.35		pH Units		8.28			0.842	25	

Batch B2D2825 - NO PREP

Blank (B2D2825-BLK1)		Prepared: 04/28/2022 Analyzed: 04/29/2022								
Specific Conductance (EC)	0.00110	0.00500	mmhos/cm							
Duplicate (B2D2825-DUP1)		Source: Y204632-06		Prepared: 04/28/2022 Analyzed: 04/29/2022						
Specific Conductance (EC)	0.307	0.00500	mmhos/cm		0.364			17.0	25	

Batch B2D2916 - NO PREP

Blank (B2D2916-BLK1)		Prepared: 04/29/2022 Analyzed: 04/30/2022								
Specific Conductance (EC)	0.00200	0.00500	mmhos/cm							
Duplicate (B2D2916-DUP1)		Source: Y204645-05		Prepared: 04/29/2022 Analyzed: 04/30/2022						
Specific Conductance (EC)	0.828	0.00500	mmhos/cm		0.633			26.7	25	QR-DUP

Batch B2D2917 - NO PREP

Duplicate (B2D2917-DUP1)		Source: Y204645-05		Prepared: 04/29/2022 Analyzed: 04/30/2022						
pH	7.79		pH Units		7.57			2.86	25	

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 L614354 - 3550B

MSD (L 92702-MSD-L614354)		Source: Y204645-01			Prepared: 05/06/2022 Analyzed: 05/06/2022					
Fluoranthene	0.153	0.000394	mg/Kg	0.163	92702	93.8	30-130	5.3	30	
Fluorene	0.125	0.000286	"	0.163	92702	76.6	30-130	11.8	30	
Indeno(1,2,3-cd)pyrene	0.153	0.000627	"	0.163	92702	93.8	30-130	17	30	
Chrysene	0.121	0.000624	"	0.163	92702	74.2	30-130	4.2	30	
Naphthalene	0.103	0.000484	"	0.163	92702	63.1	30-130	10.8	30	
Benzo(a)pyrene	0.131	0.000468	"	0.163	92702	80.3	30-130	4.6	30	
Pyrene	0.148	0.000643	"	0.163	92702	90.7	30-130	4.8	30	
Benzo(b)fluoranthene	0.12	0.000585	"	0.163	92702	73.6	30-130	8.6	30	
Dibenz(a,h)anthracene	0.156	0.000614	"	0.163	92702	95.7	30-130	15.1	30	
Anthracene	0.144	0.000334	"	0.163	92702	88.3	30-130	10.2	30	
Benzo(k)fluoranthene	0.108	0.000437	"	0.163	92702	66.2	30-130	8	30	
1-Methylnaphthalene	0.106	0.000364	"	0.163	92702	65	30-130	12.2	30	
2-Methylnaphthalene	0.105	0.000645	"	0.163	92702	64.4	30-130	11.6	30	
Acenaphthene	0.133	0.000304	"	0.163	92702	81.5	30-130	11.9	30	
Benzo(a)anthracene	0.131	0.000493	"	0.163	92702	80.3	30-130	5.4	30	
Surrogate: Nitrobenzene-d5	50.6		"	0.326	203	50.6	29-110			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.326	220	56.1	33-115			
Surrogate: 4-Terphenyl-d14	79.1		"	0.326	294	79.1	33-122			

MS (L 92702-MS-L614354)		Source: Y204645-01			Prepared: 05/06/2022 Analyzed: 05/06/2022					
Pyrene	0.141	0.000643	mg/Kg	0.166	92702	84.9	30-130			
2-Methylnaphthalene	0.0934	0.000645	"	0.166	92702	56.2	30-130			
1-Methylnaphthalene	0.0938	0.000364	"	0.166	92702	56.5	30-130			
Acenaphthene	0.118	0.000304	"	0.166	92702	71	30-130			
Anthracene	0.13	0.000334	"	0.166	92702	78.3	30-130			
Naphthalene	0.0924	0.000484	"	0.166	92702	55.6	30-130			
Dibenz(a,h)anthracene	0.134	0.000614	"	0.166	92702	80.7	30-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 L614354 - 3550B

MS (L 92702-MS-L614354)		Source: Y204645-01			Prepared: 05/06/2022 Analyzed: 05/06/2022					
Indeno(1,2,3-cd)pyrene	0.129	0.000627	mg/Kg	0.166	92702	77.7	30-130			
Fluorene	0.111	0.000286	"	0.166	92702	66.8	30-130			
Fluoranthene	0.145	0.000394	"	0.166	92702	87.3	30-130			
Benzo(a)pyrene	0.125	0.000468	"	0.166	92702	75.3	30-130			
Benzo(b)fluoranthene	0.11	0.000585	"	0.166	92702	66.2	30-130			
Benzo(k)fluoranthene	0.0996	0.000437	"	0.166	92702	60	30-130			
Chrysene	0.116	0.000624	"	0.166	92702	69.8	30-130			
Benzo(a)anthracene	0.124	0.000493	"	0.166	92702	74.6	30-130			
Surrogate: 2-Fluorobiphenyl	55.5		"	0.331	220	55.5	33-115			
Surrogate: Nitrobenzene-d5	52.2		"	0.331	203	52.2	29-110			
Surrogate: 4-Terphenyl-d14	84.5		"	0.331	294	84.5	33-122			

LCS (LCS-L614354)

Prepared: 05/06/2022 Analyzed: 05/06/2022

Benzo(a)pyrene	0.126	0.000468	mg/Kg	0.167		75.4	30-130			
2-Methylnaphthalene	0.0986	0.000645	"	0.167		59	30-130			
Benzo(a)anthracene	0.124	0.000493	"	0.167		74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.146	0.000627	"	0.167		87.4	30-130			
Benzo(k)fluoranthene	0.0925	0.000437	"	0.167		55.3	30-130			
Chrysene	0.117	0.000624	"	0.167		70	30-130			
Dibenz(a,h)anthracene	0.139	0.000614	"	0.167		83.2	30-130			
Fluoranthene	0.134	0.000394	"	0.167		80.2	30-130			
Acenaphthene	0.105	0.000304	"	0.167		62.8	30-130			
Fluorene	0.114	0.000286	"	0.167		68.2	30-130			
Anthracene	0.131	0.000334	"	0.167		78.4	30-130			
Benzo(b)fluoranthene	0.103	0.000585	"	0.167		61.6	30-130			
1-Methylnaphthalene	0.0979	0.000364	"	0.167		58.6	30-130			
Pyrene	0.129	0.000643	"	0.167		77.2	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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
Batch L614354 - 3550B										
LCS (LCS-L614354)					Prepared: 05/06/2022 Analyzed: 05/06/2022					
Naphthalene	0.098	0.000484	mg/Kg	0.167		58.6	30-130			
Surrogate: Nitrobenzene-d5	61.2		"	0.333		61.2	29-110			
Surrogate: 2-Fluorobiphenyl	67.5		"	0.333		67.5	33-115			
Surrogate: 4-Terphenyl-d14	86.4		"	0.333		86.4	33-122			
LRB (LRB-L614354)					Prepared: 05/06/2022 Analyzed: 05/06/2022					
Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	82.2		"	0.333		82.2	33-122			
Surrogate: Nitrobenzene-d5	59.7		"	0.333		59.7	29-110			
Surrogate: 2-Fluorobiphenyl	64.8		"	0.333		64.8	33-115			

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 - Pronghorn F-17 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 L613817 - 3050B

MSD (L 92719-MSD-L613817)			Source: 92719			Prepared: 05/02/2022 Analyzed: 05/04/2022				
Arsenic	3.17	0.0855	mg/Kg	2.43	0.792	98	75-125	2.2	80	
Cadmium	0.582	0.0259	"	0.487	0.112	97	75-125	6.9	80	
Copper	9.14	0.0806	"	2.43	5.6	145	75-125	14.9	80	*
Lead	8.4	0.031	"	2.43	4.77	149	75-125	18.1	80	*
Nickel	8.86	0.0633	"	2.43	5.5	138	75-125	3.3	80	*
Selenium	3.92	0.103	"	4.87	0.304	74	75-125	12.2	80	*
Silver	0.552	0.0067	"	0.487	0.0211	109	75-125	9.2	80	
Zinc	52.9	0.534	"	24.3	26	111	75-125	3.4	80	
Barium	66.5	0.042	"	4.87	47.7	386	75-125	16.6	80	*
MS (L 92719-MS-L613817)			Source: 92719			Prepared: 05/02/2022 Analyzed: 05/04/2022				
Cadmium	0.624	0.0259	mg/Kg	0.496	0.112	103	75-125			
Silver	0.503	0.0067	"	0.496	0.0211	97	75-125			
Selenium	4.43	0.103	"	4.96	0.304	83	75-125			
Nickel	8.57	0.0633	"	2.48	5.5	124	75-125			
Copper	7.87	0.0806	"	2.48	5.6	92	75-125			
Barium	56.3	0.042	"	4.96	47.7	173	75-125			*
Zinc	51.1	0.534	"	24.8	26	101	75-125			
Arsenic	3.1	0.0855	"	2.48	0.792	93	75-125			
Lead	7	0.031	"	2.48	4.77	90	75-125			
LCS (LCS-L613817)			Prepared: 05/02/2022 Analyzed: 05/04/2022							
Arsenic	2.44	0.0855	mg/Kg	2.5		98	80-120			
Silver	0.472	0.0067	"	0.5		94	80-120			
Selenium	5.1	0.103	"	5		102	80-120			
Nickel	2.51	0.0633	"	2.5		100	80-120			
Lead	2.41	0.031	"	2.5		96	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 - Pronghorn F-17 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 L613817 - 3050B

LCS (LCS-L613817)

Prepared: 05/02/2022 Analyzed: 05/04/2022

Copper	2.45	0.0806	mg/Kg	2.5		98	80-120			
Cadmium	0.505	0.0259	"	0.5		101	80-120			
Barium	5.18	0.042	"	5		104	80-120			
Zinc	24.4	0.534	"	25		98	80-120			

LRB (LRB-L613817)

Prepared: 05/02/2022 Analyzed: 05/04/2022

Silver	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Nickel	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 - Pronghorn F-17 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
Batch L614483 -										
DUP (L 99777-DUP)	Source: 99777				Prepared: Analyzed: 05/06/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		99777	-		0	20	
MS (L 99777-MS)	Source: 99777				Prepared: Analyzed: 05/06/2022					
Chromium, Hexavalent	6.41	0.246	mg/Kg	8.08	99777	79	75-125			
LCS (LCS)					Prepared: Analyzed: 05/06/2022					
Chromium, Hexavalent	6.12	0.244	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared: Analyzed: 05/06/2022					
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 - Pronghorn F-17 Pad

Notes and Definitions

U Sample is Non-Detect.

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



May 12, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Pronghorn F-17 Pad

Project Number - [none]

Attached are your analytical results for Bonanza - Pronghorn F-17 Pad received by Origins Laboratory, Inc. April 27, 2022. This project is associated with Origins project number Y204648-01.

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 - Pronghorn F-17 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@0-0.25'	Y204648-01	Soil	April 27, 2022 12:05	04/27/2022 15:40
Background-02@0-0.25'	Y204648-02	Soil	April 27, 2022 12:10	04/27/2022 15:40

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.

Page 3 of 15

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4204648 Client: Eagle
Client Project ID: Pronghorn F-17 Pad
Checklist Completed by: SG Shipped Via: HD
Date/time completed: 4/28/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): X Soil/Solid Water Other:
(Describe)
Cooler Number/Temperature: 1, 0.1 °C / °C / °C / °C
Thermometer ID: T004

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

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

Reviewed by MP (Project Manager)

Date/Time Reviewed 4/29/22

Origins Laboratory, Inc.

J. Bynon

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

Background-01@0-0.25'

4/27/2022 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204648-01 (Soil) Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.218	0.0990	mg/L	1	B2D2910	KAP	04/29/2022	05/02/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.35	0.499	meq/L	10	[CALC]	KAP	04/29/2022	05/02/2022
Magnesium	0.872	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.37		pH Units	1	B2D2917	TSH	04/29/2022	04/30/2022
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SAR by 20B Saturated Paste

SAR	0.0754		SAR	1	B2D2913	KAP	04/29/2022	05/02/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.421	0.00500	mmhos/cm	1	B2D2916	TSH	04/29/2022	04/30/2022
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Waypoint Analytical, LLC.

Total Metals by 6020B

Arsenic	6.43	0.25	mg/Kg	5	L614201		05/04/2022	05/06/2022
Barium	75.1	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 - Pronghorn F-17 Pad

Background-01@0-0.25'

4/27/2022 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204648-01 (Soil)

Waypoint Analytical, LLC.

Total Metals by 6020B

Cadmium	0.0907	0.25	mg/Kg	5	L614201		05/04/2022	05/06/2022	J
Copper	5.87	0.25	"	"	"		"	"	
Lead	6.42	0.25	"	"	"		"	"	
Nickel	6.95	0.25	"	"	"		"	"	
Selenium	0.205	0.25	"	"	"		"	"	J
Silver	0.0149	0.25	"	"	"		"	"	J
Zinc	26.7	2.5	"	"	"		"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.504	mg/Kg	1	L614743		04/27/2022	05/06/2022	
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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 - Pronghorn F-17 Pad

Background-02@0-0.25'

4/27/2022 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204648-02 (Soil) Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.223	0.101	mg/L	1	B2D2910	KAP	04/29/2022	05/02/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.69	0.499	meq/L	10	[CALC]	KAP	04/29/2022	05/02/2022
Magnesium	1.05	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.42		pH Units	1	B2D2917	TSH	04/29/2022	04/30/2022
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SAR by 20B Saturated Paste

SAR	0.0764		SAR	1	B2D2913	KAP	04/29/2022	05/02/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.488	0.00500	mmhos/cm	1	B2D2916	TSH	04/29/2022	04/30/2022
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Waypoint Analytical, LLC.

Total Metals by 6020B

Arsenic	2.56	0.25	mg/Kg	5	L614046		05/03/2022	05/06/2022
Barium	54.5	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 - Pronghorn F-17 Pad

Background-02@0-0.25'

4/27/2022 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y204648-02 (Soil)

Waypoint Analytical, LLC.

Total Metals by 6020B

Cadmium	0.0473	0.25	mg/Kg	5	L614046	05/03/2022	05/06/2022	J
Copper	3.77	0.25	"	"	"	"	"	
Lead	5.25	0.25	"	"	"	"	"	
Nickel	4.62	0.25	"	"	"	"	"	
Selenium	ND	0.25	"	"	"	"	"	
Silver	0.0188	0.25	"	"	"	"	"	J
Zinc	21.6	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L614743	04/27/2022	05/06/2022	
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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 - Pronghorn F-17 Pad

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D2916 - NO PREP										
Blank (B2D2916-BLK1)					Prepared: 04/29/2022 Analyzed: 04/30/2022					
Specific Conductance (EC)	0.00200	0.00500	mmhos/cm							
Duplicate (B2D2916-DUP1)					Source: Y204645-05 Prepared: 04/29/2022 Analyzed: 04/30/2022					
Specific Conductance (EC)	0.828	0.00500	mmhos/cm		0.633			26.7	25	QR-DUP
Batch B2D2917 - NO PREP										
Duplicate (B2D2917-DUP1)					Source: Y204645-05 Prepared: 04/29/2022 Analyzed: 04/30/2022					
pH	7.79		pH Units		7.57			2.86	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 - Pronghorn F-17 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
Batch L614201 - 3050B										
MSD (L 85195-MSD-L614201)			Source: 85195		Prepared: 05/04/2022 Analyzed: 05/06/2022					
Barium	326	0.042	mg/Kg	4.8	330	NR	75-125	146	80	*
Cadmium	0.634	0.0259	"	0.48	0.188	93	75-125	1.8	80	
Copper	11.6	0.0806	"	2.4	8.99	109	75-125	3.5	80	
Lead	11.4	0.031	"	2.4	8.02	141	75-125	8.2	80	*
Nickel	12.1	0.0633	"	2.4	9.4	113	75-125	3.2	80	
Selenium	3.72	0.103	"	4.8	0.158	74	75-125	1	80	*
Silver	0.49	0.0067	"	0.48	0.0192	98	75-125	1.6	80	
Zinc	62.2	0.534	"	24	37.7	102	75-125	2	80	
Arsenic	6.61	0.0855	"	2.4	4.59	84	75-125	0.1	80	
MS (L 85195-MS-L614201)			Source: 85195		Prepared: 05/04/2022 Analyzed: 05/06/2022					
Nickel	12.5	0.0633	mg/Kg	2.4	9.4	129	75-125			*
Zinc	63.5	0.534	"	24	37.7	108	75-125			
Selenium	3.76	0.103	"	4.79	0.158	75	75-125			
Copper	11.2	0.0806	"	2.4	8.99	92	75-125			
Cadmium	0.646	0.0259	"	0.479	0.188	96	75-125			
Arsenic	6.6	0.0855	"	2.4	4.85	73	75-125			*
Barium	50.7	0.042	"	4.79	330	NR	75-125			*
Silver	0.498	0.0067	"	0.479	0.0192	100	75-125			
Lead	10.5	0.031	"	2.4	8.02	103	75-125			
LCS (LCS-L614201)			Prepared: 05/04/2022 Analyzed: 05/06/2022							
Lead	2.44	0.031	mg/Kg	2.5		98	80-120			
Arsenic	2.68	0.0855	"	2.5		107	80-120			
Barium	5.03	0.042	"	5		101	80-120			
Copper	2.5	0.0806	"	2.5		100	80-120			
Nickel	2.6	0.0633	"	2.5		104	80-120			

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 - Pronghorn F-17 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
Batch L614201 - 3050B										
LCS (LCS-L614201)					Prepared: 05/04/2022 Analyzed: 05/11/2022					
Selenium	4.8	0.103	mg/Kg	5		96	80-120			
Silver	0.5	0.0067	"	0.5		100	80-120			
Zinc	25.4	0.534	"	25		102	80-120			
Cadmium	0.485	0.0259	"	0.5		97	80-120			
LRB (LRB-L614201)					Prepared: 05/04/2022 Analyzed: 05/06/2022					
Zinc	ND	2.5	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	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 - Pronghorn F-17 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
Batch L614046 - 3050B										
MSD (L 93025-MSD-L614046)			Source: 93025		Prepared: 05/03/2022 Analyzed: 05/06/2022					
Copper	18.9	0.0806	mg/Kg	2.32	15.9	129	75-125	2.6	80	*
Arsenic	6.62	0.0855	"	2.32	4.43	94	75-125	19.1	80	
Cadmium	0.608	0.0259	"	0.464	0.162	96	75-125	1.3	80	
Lead	16.6	0.031	"	2.32	13.3	142	75-125	1.7	80	*
Nickel	17.7	0.0633	"	2.32	15.5	95	75-125	0	80	
Selenium	3.21	0.103	"	4.64	0.426	60	75-125	15.7	80	*
Silver	0.529	0.0067	"	0.464	0.0644	100	75-125	5.1	80	
Zinc	87.1	0.534	"	23.2	59.9	117	75-125	1.9	80	
Barium	240	0.042	"	4.64	241	NR	75-125	4.8	80	*
MS (L 93025-MS-L614046)			Source: 93025		Prepared: 05/03/2022 Analyzed: 05/06/2022					
Zinc	88.8	0.534	mg/Kg	24.6	59.9	117	75-125			
Barium	252	0.042	"	4.93	241	223	75-125			*
Arsenic	8.02	0.0855	"	2.46	4.43	146	75-125			*
Copper	19.4	0.0806	"	2.46	15.9	142	75-125			*
Lead	16.9	0.031	"	2.46	13.3	146	75-125			*
Nickel	17.7	0.0633	"	2.46	15.5	89	75-125			
Selenium	3.76	0.103	"	4.93	0.426	68	75-125			*
Silver	0.557	0.0067	"	0.493	0.0644	100	75-125			
Cadmium	0.616	0.0259	"	0.493	0.162	92	75-125			
LCS (LCS-L614046)			Prepared: 05/03/2022 Analyzed: 05/06/2022							
Nickel	2.59	0.0633	mg/Kg	2.5		104	80-120			
Lead	2.57	0.031	"	2.5		103	80-120			
Arsenic	2.57	0.0855	"	2.5		103	80-120			
Zinc	25.6	0.534	"	25		102	80-120			
Barium	5.04	0.042	"	5		101	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 - Pronghorn F-17 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
Batch L614046 - 3050B										
LCS (LCS-L614046)					Prepared: 05/03/2022 Analyzed: 05/10/2022					
Selenium	4.61	0.103	mg/Kg	5		92	80-120			
Silver	0.485	0.0067	"	0.5		97	80-120			
Copper	2.48	0.0806	"	2.5		99	80-120			
Cadmium	0.485	0.0259	"	0.5		97	80-120			
LRB (LRB-L614046)					Prepared: 05/03/2022 Analyzed: 05/06/2022					
Silver	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	0.214	0.25	"				-			J

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 - Pronghorn F-17 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
Batch L614743 -										
DUP (L 92730-DUP)		Source: 92730			Prepared: Analyzed: 05/06/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		92730		-	0	20	
MS (L 92730-MS)		Source: 92730			Prepared: Analyzed: 05/06/2022					
Chromium, Hexavalent	2.3	0.244	mg/Kg	7.78	92730	30	75-125			*
LCS (LCS)					Prepared: Analyzed: 05/06/2022					
Chromium, Hexavalent	6	0.244	mg/Kg	8		75	75-125			
LRB (LRB)					Prepared: Analyzed: 05/06/2022					
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 - Pronghorn F-17 Pad

Notes and Definitions

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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May 13, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Pronghorn F-17 Pad

Project Number - [none]

Attached are your analytical results for Bonanza - Pronghorn F-17 Pad received by Origins Laboratory, Inc. April 29, 2022. This project is associated with Origins project number Y204716-01.

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 - Pronghorn F-17 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-07@0-0.25'	Y204716-01	Soil	April 29, 2022 11:05	04/29/2022 13:51
SS-08@0-0.25'	Y204716-02	Soil	April 29, 2022 11:15	04/29/2022 13:51
SS-09@0-0.25'	Y204716-03	Soil	April 29, 2022 11:25	04/29/2022 13:51
SS-10@0-0.25'	Y204716-04	Soil	April 29, 2022 11:35	04/29/2022 13:51
SS-11@0-0.25'	Y204716-05	Soil	April 29, 2022 11:45	04/29/2022 13:51
SS-12@0-0.25'	Y204716-06	Soil	April 29, 2022 11:55	04/29/2022 13:51
SS-13@0-0.25'	Y204716-07	Soil	April 29, 2022 12:05	04/29/2022 13:51
SS-14@0-0.25'	Y204716-08	Soil	April 29, 2022 12:15	04/29/2022 13:51
SS-15@0-0.25'	Y204716-09	Soil	April 29, 2022 12:25	04/29/2022 13:51
SS-16@0-0.25'	Y204716-10	Soil	April 29, 2022 12:35	04/29/2022 13:51

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 - Pronghorn F-17 Pad

www.originslaboratory.com

page 1 of 1

Project Manager: Martin Eckert III
Project Name: Pronghorn F-17 Pad
Project Number: _____
Samples Collected By: TZ

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: mce3@eagle-enviro.com

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			
SS-07 00-0.25'	04-29-22	1105	2	X					X			1	
SS-08 00-0.25'		1115										2	
SS-09 00-0.25'		1125										3	
SS-10 00-0.25'		1135										4	
SS-11 00-0.25'		1145										5	
SS-12 00-0.25'		1155										6	
SS-13 00-0.25'		1205										7	
SS-14 00-0.25'		1215										8	
SS-15 00-0.25'		1225										9	
SS-16 00-0.25'		1235										10	
Relinquished By: <u>Trouer Copple</u>	Date: <u>04-29-22</u>	Time: <u>1350</u>	Received By: <u>HA</u>	Date: <u>4/29/22</u>	Time: <u>1351</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard							

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

Temp Received: 33 Date Results Needed: Bonanza

Bill to Luke

Origins Laboratory, Inc.

Bynon

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y204716

Client: Eagle

Client Project ID: Pronghorn F-17 Pad

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 4/29/22

Airbill #: N/A

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

☐ Water

☐ Other:

Cooler Number/Temperature: 1, 3.3 °C

1 °C

1 °C

(Describe)

Thermometer ID: T004

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

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

Reviewed by (Project Manager) JB

Date/Time Reviewed 5-1-22

Origins Laboratory, Inc.

J. Bynon

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-07@0-0.25'

4/29/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.180	0.100	mg/L	1	B2E0207	05/02/2022	05/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0307	05/03/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0134	0.00200	mg/kg	1	B2E0103	05/01/2022	05/02/2022	
1,3,5-Trimethylbenzene	0.00206	0.00200	"	"	"	"	"	
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	"	"	"	"	05/03/2022	U

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130			"	"	05/02/2022	
Surrogate: Toluene-d8	96.6 %	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 - Pronghorn F-17 Pad

SS-07@0-0.25'

4/29/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	96.9 %	70-130	B2E01 03	05/01/2022	05/02/2022
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Metals by Saturated Paste by EPA 6010

Calcium	1.37	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	"	"	"	"	"
Fluorene	ND	0.000286	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 - Pronghorn F-17 Pad

SS-07@0-0.25'

4/29/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.42	pH Units	1	B2E0213	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.108	SAR	1	B2E0205	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.214	0.00500	mmhos/cm	1	B2E0212	05/02/2022	05/03/2022
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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 - Pronghorn F-17 Pad

SS-08@0-0.25'

4/29/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.182	0.101	mg/L	1	B2E0207	05/02/2022	05/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0307	05/03/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0103	05/01/2022	05/02/2022	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	"	"	"	"	05/03/2022	U

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130	"	"	"	05/02/2022	
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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 - Pronghorn F-17 Pad

SS-08@0-0.25'

4/29/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.9 %	70-130	B2E01 03	05/01/2022	05/02/2022
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.46	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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 - Pronghorn F-17 Pad

SS-08@0-0.25'

4/29/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	55.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.40	pH Units	1	B2E0213	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.0630	SAR	1	B2E0205	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.221	0.00500	mmhos/cm	1	B2E0212	05/02/2022	05/03/2022
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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 - Pronghorn F-17 Pad

SS-09@0-0.25'

4/29/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.198	0.0990	mg/L	1	B2E0207	05/02/2022	05/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0307	05/03/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.4 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0103	05/01/2022	05/02/2022	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	"	"	"	"	05/03/2022	U

Surrogate: 1,2-Dichloroethane-d4	124 %	70-130	"	"	"	05/02/2022
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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 - Pronghorn F-17 Pad

SS-09@0-0.25'

4/29/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.5 %	70-130	B2E01 03	05/01/2022	05/02/2022
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.41	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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 - Pronghorn F-17 Pad

SS-09@0-0.25'

4/29/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	51.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	63.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.42	pH Units	1	B2E0213	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.0593	SAR	1	B2E0205	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.220	0.00500	mmhos/cm	1	B2E0212	05/02/2022	05/03/2022
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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 - Pronghorn F-17 Pad

SS-10@0-0.25'

4/29/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.243	0.101	mg/L	1	B2E0207	05/02/2022	05/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0307	05/03/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0103	05/01/2022	05/02/2022	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	125 %	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 - Pronghorn F-17 Pad

SS-10@0-0.25'

4/29/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.4 %	70-130	B2E01 03	05/01/2022	05/02/2022
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.80	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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 - Pronghorn F-17 Pad

SS-10@0-0.25'

4/29/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	69.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.46	pH Units	1	B2E0213	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.0424	SAR	1	B2E0205	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.263	0.00500	mmhos/cm	1	B2E0212	05/02/2022	05/03/2022
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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 - Pronghorn F-17 Pad

SS-11@0-0.25'

4/29/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.279	0.0995	mg/L	1	B2E0207	05/02/2022	05/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0307	05/03/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.5 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0103	05/01/2022	05/02/2022	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	124 %	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 - Pronghorn F-17 Pad

SS-11@0-0.25'

4/29/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.9 %	70-130	B2E01 03	05/01/2022	05/02/2022
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.71	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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 - Pronghorn F-17 Pad

SS-11@0-0.25'

4/29/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	56.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	62 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.40	pH Units	1	B2E0213	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.0470	SAR	1	B2E0205	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.334	0.00500	mmhos/cm	1	B2E0212	05/02/2022	05/03/2022
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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 - Pronghorn F-17 Pad

SS-12@0-0.25'

4/29/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.301	0.100	mg/L	1	B2E0209	05/02/2022	05/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0307	05/03/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0103	05/01/2022	05/02/2022	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	125 %	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 - Pronghorn F-17 Pad

SS-12@0-0.25'

4/29/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.2 %	70-130	B2E01 03	05/01/2022	05/02/2022
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.89	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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 - Pronghorn F-17 Pad

SS-12@0-0.25'

4/29/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	53.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	62.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.39	pH Units	1	B2E0213	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.0449	SAR	1	B2E0205	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.357	0.00500	mmhos/cm	1	B2E0212	05/02/2022	05/03/2022
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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 - Pronghorn F-17 Pad

SS-13@0-0.25'

4/29/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.298	0.0993	mg/L	1	B2E0209	05/02/2022	05/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0307	05/03/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	69.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0103	05/01/2022	05/02/2022	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	125 %	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 - Pronghorn F-17 Pad

SS-13@0-0.25'

4/29/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.3 %		70-130			B2E01 03	05/01/2022	05/02/2022	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.18		0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022	
Magnesium	0.938		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022	
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	0.000784	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 - Pronghorn F-17 Pad

SS-13@0-0.25'

4/29/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-07 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	56.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	45.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.39	pH Units	1	B2E0213	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.0488	SAR	1	B2E0205	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.417	0.00500	mmhos/cm	1	B2E0212	05/02/2022	05/03/2022
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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 - Pronghorn F-17 Pad

SS-14@0-0.25'

4/29/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.321	0.100	mg/L	1	B2E0209	05/02/2022	05/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0307	05/03/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0103	05/01/2022	05/03/2022	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	137 %	70-130			"	"	"	S-GC
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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 - Pronghorn F-17 Pad

SS-14@0-0.25'

4/29/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.0 %	70-130	B2E01 03	05/01/2022	05/03/2022
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.95	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	0.00108	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000948	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 - Pronghorn F-17 Pad

SS-14@0-0.25'

4/29/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-08 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
Indeno(1,2,3-cd)pyrene	0.000957	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59.4 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	47.3 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	55.8 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.14			pH Units	1	B2E0213	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.0444			SAR	1	B2E0205	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.368		0.00500	mmhos/cm	1	B2E0212	05/02/2022	05/03/2022
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Total Metals by 6020B

Arsenic	2.41	0.0855	0.25	mg/Kg	5	L614203	05/04/2022	05/09/2022
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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 - Pronghorn F-17 Pad

SS-14@0-0.25'

4/29/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-08 (Soil)

Total Metals by 6020B

Barium	67.5	0.042	0.25	mg/Kg	5	L614203	05/04/2022	05/09/2022	
Cadmium	0.0865	0.0259	0.25	"	"	"	"	"	J
Copper	4.03	0.0806	0.25	"	"	"	"	"	
Lead	5.67	0.031	0.25	"	"	"	"	"	
Nickel	5.04	0.0633	0.25	"	"	"	"	"	
Selenium	0.211	0.103	0.25	"	"	"	"	"	J
Silver	0.0143	0.0067	0.25	"	"	"	"	"	J
Zinc	24	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L615219	04/29/2022	05/11/2022	
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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 - Pronghorn F-17 Pad

SS-15@0-0.25'

4/29/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.256	0.0985	mg/L	1	B2E0209	05/02/2022	05/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0307	05/03/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0103	05/01/2022	05/03/2022	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	137 %	70-130			"	"	"	S-GC
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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 - Pronghorn F-17 Pad

SS-15@0-0.25'

4/29/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.6 %	70-130	B2E01 03	05/01/2022	05/03/2022
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.32	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	0.000881	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 - Pronghorn F-17 Pad

SS-15@0-0.25'

4/29/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-09 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	58.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	47.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.17	pH Units	1	B2E0215	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.0497	SAR	1	B2E0206	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.439	0.00500	mmhos/cm	1	B2E0214	05/02/2022	05/03/2022
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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 - Pronghorn F-17 Pad

SS-16@0-0.25'

4/29/2022 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.236	0.0983	mg/L	1	B2E0209	05/02/2022	05/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0307	05/03/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.8 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0103	05/01/2022	05/03/2022	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	137 %	70-130	"	"	"	"	"	S-GC
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-16@0-0.25'

4/29/2022 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204716-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.9 %	70-130	B2E01 03	05/01/2022	05/03/2022
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.18	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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 - Pronghorn F-17 Pad

SS-16@0-0.25'

4/29/2022 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204716-10 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614905	05/07/2022	05/11/2022
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	76.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	69.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.16	pH Units	1	B2E0215	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.0440	SAR	1	B2E0206	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.415	0.00500	mmhos/cm	1	B2E0214	05/02/2022	05/03/2022
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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 - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0103 - EPA 5030 (soil)										
Blank (B2E0103-BLK1)					Prepared: 05/01/2022 Analyzed: 05/02/2022					
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	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	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 - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0103 - EPA 5030 (soil)										
LCS (B2E0103-BS1)					Prepared: 05/01/2022 Analyzed: 05/02/2022					
1,2,4-Trimethylbenzene	0.0867	0.00200	mg/kg	0.100		86.7	70-130			
1,3,5-Trimethylbenzene	0.0952	0.00200	"	0.100		95.2	70-130			
Benzene	0.0914	0.00200	"	0.100		91.4	70-130			
Ethylbenzene	0.0943	0.00200	"	0.100		94.3	70-130			
Naphthalene	0.0839	0.0100	"	0.100		83.9	70-130			
Toluene	0.0801	0.00200	"	0.100		80.1	70-130			
o-Xylene	0.0855	0.00200	"	0.100		85.5	70-130			
m,p-Xylene	0.175	0.00400	"	0.200		87.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125	138		70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.3		70-130			

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0103 - EPA 5030 (soil)										
Matrix Spike (B2E0103-MS1)		Source: Y204716-01			Prepared: 05/01/2022 Analyzed: 05/02/2022					
1,2,4-Trimethylbenzene	0.0832	0.00200	mg/kg	0.100	0.0134	69.9	70-130			QM-07
1,3,5-Trimethylbenzene	0.0909	0.00200	"	0.100	0.00206	88.9	70-130			
Benzene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
Ethylbenzene	0.0926	0.00200	"	0.100	ND	92.6	70-130			
Naphthalene	0.0841	0.0100	"	0.100	0.0492	34.9	70-130			QM-07
Toluene	0.0836	0.00200	"	0.100	0.00112	82.5	70-130			
o-Xylene	0.0843	0.00200	"	0.100	0.000960	83.4	70-130			
m,p-Xylene	0.173	0.00400	"	0.200	0.00210	85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		123	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	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 - Pronghorn F-17 Pad

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0103 - EPA 5030 (soil)										
Matrix Spike Dup (B2E0103-MSD1)		Source: Y204716-01			Prepared: 05/01/2022 Analyzed: 05/02/2022					
1,2,4-Trimethylbenzene	0.0862	0.00200	mg/kg	0.100	0.0134	72.8	70-130	3.47	20	
1,3,5-Trimethylbenzene	0.0950	0.00200	"	0.100	0.00206	93.0	70-130	4.41	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	3.28	20	
Ethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	3.56	20	
Naphthalene	0.0899	0.0100	"	0.100	0.0492	40.7	70-130	6.60	20	QM-07
Toluene	0.0873	0.00200	"	0.100	0.00112	86.2	70-130	4.33	20	
o-Xylene	0.0873	0.00200	"	0.100	0.000960	86.4	70-130	3.52	20	
m,p-Xylene	0.179	0.00400	"	0.200	0.00210	88.3	70-130	3.30	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		126	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0307 - EPA 3550B										
Blank (B2E0307-BLK1)					Prepared: 05/03/2022 Analyzed: 05/05/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		78.1	50-150			

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Eagle Environmental Consulting, Inc.
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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0307 - EPA 3550B										
LCS (B2E0307-BS1)					Prepared: 05/03/2022 Analyzed: 05/05/2022					
Diesel (C10-C28)	733	50.0	mg/kg	1000		73.3	70-130			
Residual Range Organics (C28-C40)	797	200	"	1000		79.7	70-130			
Surrogate: o-Terphenyl	41		"	49.8		83.2	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 B2E0307 - EPA 3550B

Matrix Spike (B2E0307-MS1)		Source: Y204716-01			Prepared: 05/03/2022 Analyzed: 05/05/2022					
Diesel (C10-C28)	739	50.0	mg/kg	1000	ND	73.9	70-130			
Residual Range Organics (C28-C40)	811	200	"	1000	ND	81.1	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.0	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 B2E0307 - EPA 3550B

Matrix Spike Dup (B2E0307-MSD1)		Source: Y204716-01			Prepared: 05/03/2022 Analyzed: 05/05/2022					
Diesel (C10-C28)	738	50.0	mg/kg	1000	ND	73.8	70-130	0.105	35	
Residual Range Organics (C28-C40)	821	200	"	1000	ND	82.1	70-130	1.15	35	
Surrogate: o-Terphenyl	40		"	49.8		79.7	50-150			

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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 - Pronghorn F-17 Pad

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E0212 - NO PREP

Blank (B2E0212-BLK1)

Prepared: 05/02/2022 Analyzed: 05/03/2022

Specific Conductance (EC) 0.00120 0.00500 mmhos/cm

Duplicate (B2E0212-DUP1)

Source: Y204701-05

Prepared: 05/02/2022 Analyzed: 05/03/2022

Specific Conductance (EC) 0.828 0.00500 mmhos/cm 0.860 3.77 25

Batch B2E0213 - NO PREP

Duplicate (B2E0213-DUP1)

Source: Y204701-05

Prepared: 05/02/2022 Analyzed: 05/03/2022

pH 8.40 pH Units 8.41 0.119 25

Batch B2E0214 - NO PREP

Blank (B2E0214-BLK1)

Prepared: 05/02/2022 Analyzed: 05/03/2022

Specific Conductance (EC) 0.00110 0.00500 mmhos/cm

Duplicate (B2E0214-DUP1)

Source: Y204716-09

Prepared: 05/02/2022 Analyzed: 05/03/2022

Specific Conductance (EC) 0.362 0.00500 mmhos/cm 0.439 19.1 25

Batch B2E0215 - NO PREP

Duplicate (B2E0215-DUP1)

Source: Y204716-09

Prepared: 05/02/2022 Analyzed: 05/03/2022

pH 8.17 pH Units 8.17 0.00 25

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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 - Pronghorn F-17 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 L614905 - 3550B

MSD (L 85218-MSD-L614905)		Source: 85218			Prepared: 05/07/2022 Analyzed: 05/11/2022					
Fluoranthene	0.0841	0.000394	mg/Kg	0.164	85218	51.2	30-130	31.8	30	
Dibenz(a,h)anthracene	0.0811	0.000614	"	0.164	85218	49.4	30-130	48.4	30	
Fluorene	0.0765	0.000286	"	0.164	85218	46.6	30-130	29.5	30	
Naphthalene	0.0746	0.000484	"	0.164	85218	45.4	30-130	24.8	30	
Pyrene	0.0866	0.000643	"	0.164	85218	52.8	30-130	29.8	30	
Chrysene	0.0887	0.000624	"	0.164	85218	54	30-130	32.4	30	
Indeno(1,2,3-cd)pyrene	0.0554	0.000627	"	0.164	85218	33.7	30-130	61.8	30	
2-Methylnaphthalene	0.0698	0.000645	"	0.164	85218	42.5	30-130	28	30	
Benzo(k)fluoranthene	0.0733	0.000437	"	0.164	85218	44.6	30-130	49	30	
Benzo(a)pyrene	0.0869	0.000468	"	0.164	85218	52.9	30-130	26.1	30	
Acenaphthene	0.076	0.000304	"	0.164	85218	46.3	30-130	28.2	30	
Anthracene	0.0848	0.000334	"	0.164	85218	51.7	30-130	24.9	30	
Benzo(a)anthracene	0.0879	0.000493	"	0.164	85218	53.5	30-130	30.8	30	
Benzo(b)fluoranthene	0.0532	0.000585	"	0.164	85218	32.4	30-130	43.2	30	
1-Methylnaphthalene	0.0748	0.000364	"	0.164	85218	45.6	30-130	24.1	30	
Surrogate: Nitrobenzene-d5	47.8		"	0.328	217	47.8	29-110			
Surrogate: 2-Fluorobiphenyl	40.8		"	0.328	187	40.8	33-115			
Surrogate: 4-Terphenyl-d14	54.8		"	0.328	238	54.8	33-122			

MS (L 85218-MS-L614905)		Source: 85218			Prepared: 05/07/2022 Analyzed: 05/11/2022					
Fluoranthene	0.116	0.000394	mg/Kg	0.166	85218	69.8	30-130			
Benzo(a)pyrene	0.113	0.000468	"	0.166	85218	68	30-130			
Dibenz(a,h)anthracene	0.133	0.000614	"	0.166	85218	80.1	30-130			
Chrysene	0.123	0.000624	"	0.166	85218	74	30-130			
Benzo(k)fluoranthene	0.121	0.000437	"	0.166	85218	72.8	30-130			
Benzo(b)fluoranthene	0.0826	0.000585	"	0.166	85218	49.7	30-130			
Benzo(a)anthracene	0.12	0.000493	"	0.166	85218	72.2	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 L614905 - 3550B

MS (L 85218-MS-L614905)		Source: 85218			Prepared: 05/07/2022 Analyzed: 05/11/2022					
Acenaphthene	0.101	0.000304	mg/Kg	0.166	85218	60.8	30-130			
Fluorene	0.103	0.000286	"	0.166	85218	62	30-130			
Anthracene	0.109	0.000334	"	0.166	85218	65.6	30-130			
1-Methylnaphthalene	0.0953	0.000364	"	0.166	85218	57.4	30-130			
2-Methylnaphthalene	0.0926	0.000645	"	0.166	85218	55.7	30-130			
Naphthalene	0.0958	0.000484	"	0.166	85218	57.7	30-130			
Pyrene	0.117	0.000643	"	0.166	85218	70.4	30-130			
Indeno(1,2,3-cd)pyrene	0.105	0.000627	"	0.166	85218	63.2	30-130			
Surrogate: 2-Fluorobiphenyl	47.8		"	0.332	187	47.8	33-115			
Surrogate: Nitrobenzene-d5	50.9		"	0.332	217	50.9	29-110			
Surrogate: 4-Terphenyl-d14	66.2		"	0.332	238	66.2	33-122			

LCS (LCS-L614905)		Prepared: 05/07/2022 Analyzed: 05/11/2022								
Indeno(1,2,3-cd)pyrene	0.0964	0.000627	mg/Kg	0.167		57.7	30-130			
Pyrene	0.105	0.000643	"	0.167		62.8	30-130			
Naphthalene	0.0939	0.000484	"	0.167		56.2	30-130			
Fluorene	0.0992	0.000286	"	0.167		59.4	30-130			
Fluoranthene	0.105	0.000394	"	0.167		62.8	30-130			
Dibenz(a,h)anthracene	0.12	0.000614	"	0.167		71.8	30-130			
Chrysene	0.111	0.000624	"	0.167		66.4	30-130			
Benzo(k)fluoranthene	0.103	0.000437	"	0.167		61.6	30-130			
Benzo(b)fluoranthene	0.0695	0.000585	"	0.167		41.6	30-130			
Benzo(a)anthracene	0.107	0.000493	"	0.167		64	30-130			
Benzo(a)pyrene	0.109	0.000468	"	0.167		65.2	30-130			
Anthracene	0.103	0.000334	"	0.167		61.6	30-130			
Acenaphthene	0.0973	0.000304	"	0.167		58.2	30-130			
2-Methylnaphthalene	0.0917	0.000645	"	0.167		54.9	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 - Pronghorn F-17 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 L614905 - 3550B

LCS (LCS-L614905)

Prepared: 05/07/2022 Analyzed: 05/11/2022

1-Methylnaphthalene	0.0933	0.000364	mg/Kg	0.167		55.8	30-130			
Surrogate: Nitrobenzene-d5	62.7		"	0.333		62.7	29-110			
Surrogate: 4-Terphenyl-d14	71.4		"	0.333		71.4	33-122			
Surrogate: 2-Fluorobiphenyl	56.4		"	0.333		56.4	33-115			

LRB (LRB-L614905)

Prepared: 05/07/2022 Analyzed: 05/11/2022

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	63.9		"	0.333		63.9	29-110			
Surrogate: 4-Terphenyl-d14	75		"	0.333		75	33-122			
Surrogate: 2-Fluorobiphenyl	54.9		"	0.333		54.9	33-115			

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 - Pronghorn F-17 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L614203 - 3050B

MSD (L 85272-MSD-L614203)			Source: 85272			Prepared: 05/04/2022 Analyzed: 05/09/2022				
Cadmium	0.528	0.0259	mg/Kg	0.488	0.0874	90	75-125	2.8	80	
Copper	7.46	0.0806	"	2.44	5.53	79	75-125	1	80	
Lead	7.46	0.031	"	2.44	5.44	83	75-125	0.1	80	
Nickel	6.45	0.0633	"	2.44	4.08	97	75-125	2.8	80	
Selenium	3.82	0.103	"	4.88	0.183	75	75-125	1.8	80	
Silver	0.532	0.0067	"	0.488	0.042	100	75-125	9.2	80	
Zinc	49.1	0.534	"	24.4	22.1	111	75-125	5.4	80	
Arsenic	3.43	0.0855	"	2.44	1.33	86	75-125	2	80	
Barium	53.2	0.042	"	4.88	47.7	113	75-125	1.1	80	
MS (L 85272-MS-L614203)			Source: 85272			Prepared: 05/04/2022 Analyzed: 05/09/2022				
Copper	7.38	0.0806	mg/Kg	2.4	5.53	77	75-125			
Zinc	46.5	0.534	"	24	22.1	102	75-125			
Silver	0.485	0.0067	"	0.48	0.042	92	75-125			
Selenium	3.75	0.103	"	4.8	0.183	74	75-125			*
Lead	7.47	0.031	"	2.4	5.44	85	75-125			
Cadmium	0.513	0.0259	"	0.48	0.0874	89	75-125			
Barium	52.6	0.042	"	4.8	47.7	102	75-125			
Arsenic	3.5	0.0855	"	2.4	1.33	90	75-125			
Nickel	6.27	0.0633	"	2.4	4.08	91	75-125			
LCS (LCS-L614203)			Prepared: 05/04/2022 Analyzed: 05/09/2022							
Nickel	2.62	0.0633	mg/Kg	2.5		105	80-120			
Barium	5.11	0.042	"	5		102	80-120			
Zinc	25.9	0.534	"	25		104	80-120			
Silver	0.513	0.0067	"	0.5		103	80-120			
Selenium	4.7	0.103	"	5		94	80-120			

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 - Pronghorn F-17 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
Batch L614203 - 3050B										
LCS (LCS-L614203)					Prepared: 05/04/2022 Analyzed: 05/09/2022					
Cadmium	0.488	0.0259	mg/Kg	0.5		98	80-120			
Arsenic	2.48	0.0855	"	2.5		99	80-120			
Lead	2.47	0.031	"	2.5		99	80-120			
Copper	2.51	0.0806	"	2.5		100	80-120			
LRB (LRB-L614203)					Prepared: 05/04/2022 Analyzed: 05/09/2022					
Arsenic	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	0.16	0.25	"				-			J
Barium	ND	0.25	"				-			
Cadmium	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 - Pronghorn F-17 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
Batch L615219 -										
DUP (L 85217-DUP)		Source: 85217			Prepared: Analyzed: 05/11/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		85217	-		0	20	
MS (L 85217-MS)		Source: 85217			Prepared: Analyzed: 05/11/2022					
Chromium, Hexavalent	5	0.247	mg/Kg	8.12	85217	62	75-125			*
LCS (LCS)					Prepared: Analyzed: 05/11/2022					
Chromium, Hexavalent	6.21	0.244	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared: Analyzed: 05/11/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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 - Pronghorn F-17 Pad

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- 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.
- * 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.



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.



May 16, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Pronghorn F-17 Pad

Project Number - [none]

Attached are your analytical results for Bonanza - Pronghorn F-17 Pad received by Origins Laboratory, Inc. May 02, 2022. This project is associated with Origins project number Y205030-01.

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 - Pronghorn F-17 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-17@0-0.25'	Y205030-01	Soil	May 2, 2022 10:20	05/02/2022 14:30
SS-18@0-0.25'	Y205030-02	Soil	May 2, 2022 10:25	05/02/2022 14:30
SS-19@0-0.25'	Y205030-03	Soil	May 2, 2022 10:30	05/02/2022 14:30
SS-20@0-0.25'	Y205030-04	Soil	May 2, 2022 10:35	05/02/2022 14:30
SS-21@0-0.25'	Y205030-05	Soil	May 2, 2022 10:40	05/02/2022 14:30
SS-22@0-0.25'	Y205030-06	Soil	May 2, 2022 10:45	05/02/2022 14:30
SS-23@0-0.25'	Y205030-07	Soil	May 2, 2022 10:50	05/02/2022 14:30
SS-24@0-0.25'	Y205030-08	Soil	May 2, 2022 10:55	05/02/2022 14:30
SS-25@0-0.25'	Y205030-09	Soil	May 2, 2022 11:00	05/02/2022 14:30
SS-26@0-0.25'	Y205030-10	Soil	May 2, 2022 11:05	05/02/2022 14:30
SS-27@0-0.25'	Y205030-11	Soil	May 2, 2022 11:10	05/02/2022 14:30
SS-28@0-0.25'	Y205030-12	Soil	May 2, 2022 11:15	05/02/2022 14:30
SS-29@0-0.25'	Y205030-13	Soil	May 2, 2022 11:20	05/02/2022 14:30
SS-30@0-0.25'	Y205030-14	Soil	May 2, 2022 11:25	05/02/2022 14:30

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Bonanza - Pronghorn F-17 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-31@0-0.25'	Y205030-15	Soil	May 2, 2022 11:30	05/02/2022 14:30
SS-32@0-0.25'	Y205030-16	Soil	May 2, 2022 11:35	05/02/2022 14:30
SS-33@0-0.25'	Y205030-17	Soil	May 2, 2022 11:40	05/02/2022 14:30
SS-34@0-0.25'	Y205030-18	Soil	May 2, 2022 11:45	05/02/2022 14:30
SS-35@0-0.25'	Y205030-19	Soil	May 2, 2022 11:50	05/02/2022 14:30
SS-36@0-0.25'	Y205030-20	Soil	May 2, 2022 11:55	05/02/2022 14:30
SS-37@0-0.25'	Y205030-21	Soil	May 2, 2022 12:00	05/02/2022 14:30
SS-38@0-0.25'	Y205030-22	Soil	May 2, 2022 12:05	05/02/2022 14:30
SS-39@0-0.25'	Y205030-23	Soil	May 2, 2022 12:10	05/02/2022 14:30
SS-40@0-0.25'	Y205030-24	Soil	May 2, 2022 12:15	05/02/2022 14:30
SS-41@0-0.25'	Y205030-25	Soil	May 2, 2022 12:20	05/02/2022 14:30
SS-42@0-0.25'	Y205030-26	Soil	May 2, 2022 12:25	05/02/2022 14:30
SS-43@0-0.25'	Y205030-27	Soil	May 2, 2022 12:30	05/02/2022 14:30
SS-44@0-0.25'	Y205030-28	Soil	May 2, 2022 12:35	05/02/2022 14:30

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Bonanza - Pronghorn F-17 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-45@0-0.25'	Y205030-29	Soil	May 2, 2022 12:40	05/02/2022 14:30
SS-46@0-0.25'	Y205030-30	Soil	May 2, 2022 12:45	05/02/2022 14:30
SS-47@0-0.25'	Y205030-31	Soil	May 2, 2022 12:50	05/02/2022 14:30

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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page 1 of 4

Y205030

ORIGINS
LABORATORY, INC

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO. 80033
Telephone Number: 303.433.9479
Email Address: me@eagle-enviro.com

Project Manager: Martin Eckert III
Project Name: Pronghorn
Project Number: 205-433-9479
Samples Collected By: T. L. R.

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	At Summa	
SS-17 @ 0-0.25'	05-02-22	1020	2	X				X	X	X	EC 5K pH by
SS-18 @ 0-0.25'	1025										Shutty Paste Pip
SS-19 @ 0-0.25'	1030										
SS-20 @ 0-0.25'	1035										
SS-21 @ 0-0.25'	1040										NOES needed
SS-22 @ 0-0.25'	1045										
SS-23 @ 0-0.25'	1050										
SS-24 @ 0-0.25'	1055										
SS-25 @ 0-0.25'	1100										
SS-26 @ 0-0.25'	1105										
Relinquished By: Trevor Gapple	Date: 05-02-22	Time: 1130		Received By: [Signature]	Date: 5/2/22	Time: 1430		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard			

Temp Received- 7.5
Date Results Needed - Bonanza

Bill to Luke

Origins Laboratory, Inc.

J. Bynon

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

ORIGINS
LABORATORY, INC

www.originslaboratory.com

1205030

page 2 of 4

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave.
Wheat Ridge, CO 80033
Telephone Number: 303-433-0474
Email Address: mce@eagle-enviro.com

Project Manager: Martin Eckert III
Project Name: Pronghorn F-17 Pad
Project Number: -
Samples Collected By: TCEK

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	Gr/Grb	Gr/Grb	
SS-27 @ 0-0.25'	05-02-22	1110	2	X				X		X	X	X	X	EC, SMR, pH by
SS-28 @ 0-0.25'		1115												Saturated Vapor Pres
SS-29 @ 0-0.25'		1120												
SS-30 @ 0-0.25'		1125												NOLOs needed
SS-31 @ 0-0.25'		1130												
SS-32 @ 0-0.25'		1135												
SS-33 @ 0-0.25'		1140												
SS-34 @ 0-0.25'		1145												
SS-35 @ 0-0.25'		1150												
SS-36 @ 0-0.25'		1155												
Relinquished By: Trevor Loggins	Date: 05-02-22	Time: 1436		Received By: [Signature]	Date: 5/2/22	Time: 1430		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard						

Temp Received- 75.5

Date Results Needed 5/2/22

Temp Received- 75.5

Date Results Needed 5/2/22

Temp Received- 75.5

Date Results Needed 5/2/22

Temp Received- 75.5

Date Results Needed 5/2/22

Temp Received- 75.5

Date Results Needed 5/2/22

Temp Received- 75.5

Origins Laboratory, Inc.

J. Bynon

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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705550

page 3 of 4

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: mce3@eagle-envi.com

Project Manager: Martin Eckert III
Project Name: Pronghorn F-17 Pad
Project Number: -
Samples Collected By: TC 146

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
SS-37 @ 0-0.25'	05-02-22	1200	2	Unpreserved	Soil	XX XX XX XX	EC SAR pH by 1
SS-38 @ 0-0.25'		1205	1				Saturated test prep 2
SS-39 @ 0-0.25'		1210	1				3
SS-40 @ 0-0.25'		1215	1				100% checked 4
SS-41 @ 0-0.25'		1220	1				5
SS-42 @ 0-0.25'		1225	1				6
SS-43 @ 0-0.25'		1230	1				7
SS-44 @ 0-0.25'		1235	1				8
SS-45 @ 0-0.25'		1240	1				9
SS-46 @ 0-0.25'		1245	1				10
Relinquished By: Trevor Lapple	Date: 05-02-22	Time: 1430		Received By: [Signature]		Date: 5/2/22	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard

Date Results Needed: Bonanza

Temp Received: 7.5

Bill to Luke

Origins Laboratory, Inc.

Bynon

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

[illegible]

Origins Laboratory, Inc.

Byron

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 - Pronghorn F-17 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y205030

Client: Eagle

Client Project ID: Pronghorn F-17 Pad

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 5/3/22

Airbill #: N/A

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

Cooler Number/Temperature: 1 7.5 °C 1 °C 1 °C 1 °C (Describe)

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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JB

Date/Time Reviewed 5-3-22

Origins Laboratory, Inc.

J. Bynon

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-17@0-0.25'
5/2/2022 10:20:00AM

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

Origins Laboratory, Inc.
Y205030-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.103	mg/L	1	B2E0318	05/03/2022	05/04/2022	
-------	----	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.9 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/04/2022	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			"	"	"	
----------------------------------	-------	--------	--	--	---	---	---	--

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 - Pronghorn F-17 Pad

SS-17@0-0.25'
5/2/2022 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.2 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.903	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	0.889	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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.



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 - Pronghorn F-17 Pad

SS-17@0-0.25'
5/2/2022 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	49.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	76.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	62.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.35	pH Units	1	B2E0607	05/06/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.184	SAR	1	B2E0319	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.203	0.00500	mmhos/cm	1	B2E0606	05/06/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-18@0-0.25'
5/2/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0998	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.7 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/04/2022	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.



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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 - Pronghorn F-17 Pad

SS-18@0-0.25'
5/2/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.7 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.908	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	0.979	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-18@0-0.25'
5/2/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	47.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.46	pH Units	1	B2E0607	05/06/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.215	SAR	1	B2E0319	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.187	0.00500	mmhos/cm	1	B2E0606	05/06/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-19@0-0.25'
5/2/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	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	B2E0332	05/03/2022	05/04/2022	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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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-19@0-0.25'
5/2/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.2 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.998	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	0.930	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-19@0-0.25'
5/2/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	50.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.50	pH Units	1	B2E0607	05/06/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.168	SAR	1	B2E0319	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.193	0.00500	mmhos/cm	1	B2E0606	05/06/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-20@0-0.25'
5/2/2022 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0999	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.3 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/04/2022	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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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-20@0-0.25'
5/2/2022 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.868	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	0.889	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-20@0-0.25'
5/2/2022 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.48	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.195	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.177	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-21@0-0.25'
5/2/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.7 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/04/2022	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.



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 - Pronghorn F-17 Pad

SS-21@0-0.25'
5/2/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.2 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.828	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	0.905	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-21@0-0.25'
5/2/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	41.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	54.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	45.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.50	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.196	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.186	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-22@0-0.25'
5/2/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.5 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/04/2022	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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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-22@0-0.25'
5/2/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.3 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.12	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	0.897	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-22@0-0.25'
5/2/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	52.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.37	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.173	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0414	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-23@0-0.25'
5/2/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.118	0.0982	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/04/2022	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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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-23@0-0.25'
5/2/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.2 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.918	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	0.905	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-23@0-0.25'
5/2/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-07 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	46.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.41	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.169	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.187	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-24@0-0.25'
5/2/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0987	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.0 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/04/2022	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.



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 - Pronghorn F-17 Pad

SS-24@0-0.25'

5/2/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.0 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.04	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-24@0-0.25'
5/2/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-08 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	47.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.43	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.158	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.190	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-25@0-0.25'
5/2/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0989	0.0989	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	64.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/04/2022	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.



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 - Pronghorn F-17 Pad

SS-25@0-0.25'
5/2/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.3 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.15	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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.



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 - Pronghorn F-17 Pad

SS-25@0-0.25'
5/2/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-09 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	54.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.40	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.128	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.195	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-26@0-0.25'
5/2/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0997	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/04/2022	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.



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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 - Pronghorn F-17 Pad

SS-26@0-0.25'

5/2/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.6 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.858	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-26@0-0.25'
5/2/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-10 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	45.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.48	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.145	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.203	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-27@0-0.25'
5/2/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/04/2022	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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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-27@0-0.25'
5/2/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-11 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.6 %	70-130	B2E03 32	05/03/2022	05/04/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.888	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-27@0-0.25'
5/2/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-11 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	47.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.48	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.144	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.182	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-28@0-0.25'
5/2/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0989	0.0989	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/05/2022	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 - Pronghorn F-17 Pad

SS-28@0-0.25'
5/2/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-12 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.4 %	70-130	B2E03 32	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.918	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-28@0-0.25'
5/2/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-12 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	49.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.45	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.134	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.190	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-29@0-0.25'
5/2/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0987	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.7 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/05/2022	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.



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 - Pronghorn F-17 Pad

SS-29@0-0.25'
5/2/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-13 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.9 %	70-130	B2E03 32	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	0.848	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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.



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 - Pronghorn F-17 Pad

SS-29@0-0.25'
5/2/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-13 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	44.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.47	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.163	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.188	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-30@0-0.25'
5/2/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-14 (Soil)

Boron (DTPA Sorbitol)

Boron	0.177	0.0985	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.1 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/05/2022	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 - Pronghorn F-17 Pad

SS-30@0-0.25'

5/2/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-14 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.8 %	70-130	B2E03 32	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.68	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-30@0-0.25'
5/2/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-14 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	44.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.31	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.0364	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.233	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-31@0-0.25'
5/2/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-15 (Soil)

Boron (DTPA Sorbitol)

Boron	0.199	0.0993	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/05/2022	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	109 %	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 - Pronghorn F-17 Pad

SS-31@0-0.25'
5/2/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-15 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.0 %	70-130	B2E03 32	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.48	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-31@0-0.25'
5/2/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-15 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	49.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.51	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.0428	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.235	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-32@0-0.25'
5/2/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-16 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.6 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/05/2022	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	109 %	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 - Pronghorn F-17 Pad

SS-32@0-0.25'

5/2/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-16 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.1 %	70-130	B2E03 32	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.843	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-32@0-0.25'
5/2/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-16 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	50.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.49	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.144	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.192	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-33@0-0.25'
5/2/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-17 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0988	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/05/2022	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.



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 - Pronghorn F-17 Pad

SS-33@0-0.25'

5/2/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-17 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.0 %	70-130	B2E03 32	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.908	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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.



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 - Pronghorn F-17 Pad

SS-33@0-0.25'
5/2/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-17 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	41.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	54.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.49	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.162	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.183	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-34@0-0.25'
5/2/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-18 (Soil)

Boron (DTPA Sorbitol)

Boron	0.141	0.101	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.6 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/05/2022	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	108 %	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 - Pronghorn F-17 Pad

SS-34@0-0.25'

5/2/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-18 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.8 %	70-130	B2E03 32	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.04	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-34@0-0.25'
5/2/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-18 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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	52.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.44	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.0862	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.185	0.00500 mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-35@0-0.25'
5/2/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-19 (Soil)

Boron (DTPA Sorbitol)

Boron	0.178	0.0990	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/05/2022	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	108 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-35@0-0.25'

5/2/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-19 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.5 %	70-130	B2E03 32	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.25	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-35@0-0.25'
5/2/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-19 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614418	05/05/2022	05/06/2022
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 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.50	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.0551	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.216	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-36@0-0.25'
5/2/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-20 (Soil)

Boron (DTPA Sorbitol)

Boron	0.160	0.100	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0311	05/03/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.9 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0332	05/03/2022	05/05/2022	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	120 %	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 - Pronghorn F-17 Pad

SS-36@0-0.25'

5/2/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-20 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.0 %	70-130	B2E03 32	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.978	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-36@0-0.25'
5/2/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-20 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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	45.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.49	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.0847	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.182	0.00500 mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-37@0-0.25'
5/2/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-21 (Soil)

Boron (DTPA Sorbitol)

Boron	0.139	0.0993	mg/L	1	B2E0325	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.2 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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.



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 - Pronghorn F-17 Pad

SS-37@0-0.25'
5/2/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-21 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.5 %	70-130	B2E03 33	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.05	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	0.831	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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.



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 - Pronghorn F-17 Pad

SS-37@0-0.25'
5/2/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-21 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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	44.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.55	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.0898	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.193	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-38@0-0.25'
5/2/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-22 (Soil)

Boron (DTPA Sorbitol)

Boron	0.120	0.0997	mg/L	1	B2E0329	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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	105 %	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 - Pronghorn F-17 Pad

SS-38@0-0.25'

5/2/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-22 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.4 %		70-130			B2E03 33	05/03/2022	05/05/2022	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.923		0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022	
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	0.000768	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-38@0-0.25'
5/2/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-22 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
Indeno(1,2,3-cd)pyrene	0.00175	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	43.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	56.8 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	40.5 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.46			pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.0867			SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.183		0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-39@0-0.25'
5/2/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-23 (Soil)

Boron (DTPA Sorbitol)

Boron	0.178	0.0987	mg/L	1	B2E0329	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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	106 %	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 - Pronghorn F-17 Pad

SS-39@0-0.25'

5/2/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-23 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.4 %	70-130	B2E03 33	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.42	0.499	meq/L	10	[CALC]	05/03/2022	05/04/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-39@0-0.25'
5/2/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-23 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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	44.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	42.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.42	pH Units	1	B2E0324	05/03/2022	05/07/2022
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SAR by 20B Saturated Paste

SAR	0.0390	SAR	1	B2E0322	05/03/2022	05/04/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.218	0.00500	mmhos/cm	1	B2E0323	05/03/2022	05/07/2022
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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 - Pronghorn F-17 Pad

SS-40@0-0.25'
5/2/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-24 (Soil)

Boron (DTPA Sorbitol)

Boron	0.161	0.101	mg/L	1	B2E0329	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.0 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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	106 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-40@0-0.25'
5/2/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-24 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B2E03 33	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.17	0.499	meq/L	10	[CALC]	05/03/2022	05/05/2022
Magnesium	0.880	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-40@0-0.25'
5/2/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-24 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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	49.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	45 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.49	pH Units	1	B2E0328	05/04/2022	05/05/2022
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SAR by 20B Saturated Paste

SAR	0.116	SAR	1	B2E0326	05/03/2022	05/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.210	0.00500 mmhos/cm	1	B2E0327	05/04/2022	05/05/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-41@0-0.25'
5/2/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-25 (Soil)

Boron (DTPA Sorbitol)

Boron	0.137	0.0981	mg/L	1	B2E0329	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.1 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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	105 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-41@0-0.25'
5/2/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-25 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.9 %	70-130	B2E03 33	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.15	0.499	meq/L	10	[CALC]	05/03/2022	05/05/2022
Magnesium	0.930	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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.



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 - Pronghorn F-17 Pad

SS-41@0-0.25'
5/2/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-25 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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	45.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.49	pH Units	1	B2E0328	05/04/2022	05/05/2022
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SAR by 20B Saturated Paste

SAR	0.128	SAR	1	B2E0326	05/03/2022	05/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.217	0.00500 mmhos/cm	1	B2E0327	05/04/2022	05/05/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-42@0-0.25'
5/2/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-26 (Soil)

Boron (DTPA Sorbitol)

Boron	0.160	0.100	mg/L	1	B2E0329	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.3 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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	105 %	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 - Pronghorn F-17 Pad

SS-42@0-0.25'
5/2/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-26 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B2E03 33	05/03/2022	05/05/2022	
Surrogate: 4-Bromofluorobenzene	99.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.54		0.499	meq/L	10	[CALC]	05/03/2022	05/05/2022	
Magnesium	0.831		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022	
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	0.000554	0.000468	0.00067	"	"	"	"	"	J
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	0.00257	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 - Pronghorn F-17 Pad

SS-42@0-0.25'
5/2/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-26 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
Indeno(1,2,3-cd)pyrene	0.00273	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	44.6 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	60.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	42.8 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.37			pH Units	1	B2E0328	05/04/2022	05/05/2022
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SAR by 20B Saturated Paste

SAR	0.0720			SAR	1	B2E0326	05/03/2022	05/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.244		0.00500	mmhos/cm	1	B2E0327	05/04/2022	05/05/2022
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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 - Pronghorn F-17 Pad

SS-43@0-0.25'
5/2/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-27 (Soil)

Boron (DTPA Sorbitol)

Boron	0.139	0.0991	mg/L	1	B2E0329	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.4 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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	107 %	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 - Pronghorn F-17 Pad

SS-43@0-0.25'
5/2/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-27 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.5 %	70-130	B2E03 33	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.54	0.499	meq/L	10	[CALC]	05/03/2022	05/05/2022
Magnesium	0.864	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-43@0-0.25'
5/2/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-27 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	45.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.41	pH Units	1	B2E0328	05/04/2022	05/05/2022
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SAR by 20B Saturated Paste

SAR	0.0754	SAR	1	B2E0326	05/03/2022	05/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.249	0.00500	mmhos/cm	1	B2E0327	05/04/2022	05/05/2022
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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 - Pronghorn F-17 Pad

SS-44@0-0.25'
5/2/2022 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-28 (Soil)

Boron (DTPA Sorbitol)

Boron	0.160	0.0999	mg/L	1	B2E0329	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.6 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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	107 %	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 - Pronghorn F-17 Pad

SS-44@0-0.25'

5/2/2022 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-28 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130	B2E03 33	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.64	0.499	meq/L	10	[CALC]	05/03/2022	05/05/2022
Magnesium	0.880	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-44@0-0.25'
5/2/2022 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-28 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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	41.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	54.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	39.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.36	pH Units	1	B2E0328	05/04/2022	05/05/2022
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SAR by 20B Saturated Paste

SAR	0.0736	SAR	1	B2E0326	05/03/2022	05/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.259	0.00500	mmhos/cm	1	B2E0327	05/04/2022	05/05/2022
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-45@0-0.25'
5/2/2022 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-29 (Soil)

Boron (DTPA Sorbitol)

Boron	0.179	0.0992	mg/L	1	B2E0329	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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	107 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-45@0-0.25'
5/2/2022 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-29 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.2 %	70-130	B2E03 33	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.75	0.499	meq/L	10	[CALC]	05/03/2022	05/05/2022
Magnesium	0.856	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022	
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	0.000722	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0006	0.000585	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000646	0.000614	0.00067	"	"	"	"	"	J
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

SS-45@0-0.25'
5/2/2022 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-29 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
Indeno(1,2,3-cd)pyrene	0.00162	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	45.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	59.5 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	41.7 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.41			pH Units	1	B2E0328	05/04/2022	05/05/2022
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SAR by 20B Saturated Paste

SAR	0.0724			SAR	1	B2E0326	05/03/2022	05/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.260		0.00500	mmhos/cm	1	B2E0327	05/04/2022	05/05/2022
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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 - Pronghorn F-17 Pad

SS-46@0-0.25'
5/2/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-30 (Soil)

Boron (DTPA Sorbitol)

Boron	0.159	0.0996	mg/L	1	B2E0329	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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	106 %	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 - Pronghorn F-17 Pad

SS-46@0-0.25'
5/2/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-30 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B2E03 33	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.17	0.499	meq/L	10	[CALC]	05/03/2022	05/05/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-46@0-0.25'
5/2/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-30 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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	46.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	45.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.46	pH Units	1	B2E0328	05/04/2022	05/05/2022
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SAR by 20B Saturated Paste

SAR	0.0963	SAR	1	B2E0326	05/03/2022	05/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.208	0.00500	mmhos/cm	1	B2E0327	05/04/2022	05/05/2022
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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 - Pronghorn F-17 Pad

SS-47@0-0.25'
5/2/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-31 (Soil)

Boron (DTPA Sorbitol)

Boron	0.181	0.101	mg/L	1	B2E0329	05/03/2022	05/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0312	05/03/2022	05/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.3 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0333	05/03/2022	05/05/2022	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	106 %	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 - Pronghorn F-17 Pad

SS-47@0-0.25'
5/2/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205030-31 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B2E03 33	05/03/2022	05/05/2022
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.44	0.499	meq/L	10	[CALC]	05/03/2022	05/05/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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 - Pronghorn F-17 Pad

SS-47@0-0.25'
5/2/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205030-31 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614511	05/05/2022	05/06/2022
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	38.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	50.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	36.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.50	pH Units	1	B2E0328	05/04/2022	05/05/2022
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SAR by 20B Saturated Paste

SAR	0.0629	SAR	1	B2E0326	05/03/2022	05/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.224	0.00500	mmhos/cm	1	B2E0327	05/04/2022	05/05/2022
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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 - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0311 - EPA 3550B										
Blank (B2E0311-BLK1)					Prepared: 05/03/2022 Analyzed: 05/07/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		82.2	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0311 - EPA 3550B										
LCS (B2E0311-BS1)					Prepared: 05/03/2022 Analyzed: 05/07/2022					
Diesel (C10-C28)	815	50.0	mg/kg	1000		81.5	70-130			
Residual Range Organics (C28-C40)	812	200	"	1000		81.2	70-130			
Surrogate: o-Terphenyl	35		"	49.8		71.3	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 B2E0311 - EPA 3550B

Matrix Spike (B2E0311-MS1)		Source: Y205030-01			Prepared: 05/03/2022 Analyzed: 05/07/2022					
Diesel (C10-C28)	807	50.0	mg/kg	1000	ND	80.7	70-130			
Residual Range Organics (C28-C40)	792	200	"	1000	ND	79.2	70-130			
Surrogate: o-Terphenyl	36		"	49.8		73.2	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0311 - EPA 3550B										
Matrix Spike Dup (B2E0311-MSD1)		Source: Y205030-01			Prepared: 05/03/2022 Analyzed: 05/07/2022					
Diesel (C10-C28)	846	50.0	mg/kg	1000	ND	84.6	70-130	4.76	35	
Residual Range Organics (C28-C40)	813	200	"	1000	ND	81.3	70-130	2.65	35	
Surrogate: o-Terphenyl	36		"	49.8		73.2	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0312 - EPA 3550B										
Blank (B2E0312-BLK1)					Prepared: 05/03/2022 Analyzed: 05/03/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	42		"	24.9		169	50-150			J-02

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 - Pronghorn F-17 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 B2E0312 - EPA 3550B

LCS (B2E0312-BS1)

Prepared: 05/03/2022 Analyzed: 05/03/2022

Diesel (C10-C28)	801	50.0	mg/kg	1000		80.1	70-130			
Residual Range Organics (C28-C40)	782	200	"	1000		78.2	70-130			
Surrogate: o-Terphenyl	40		"	49.8		79.7	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 B2E0312 - EPA 3550B

Matrix Spike (B2E0312-MS1)		Source: Y205028-01			Prepared: 05/03/2022 Analyzed: 05/03/2022					
Diesel (C10-C28)	854	50.0	mg/kg	1000	ND	85.4	70-130			
Residual Range Organics (C28-C40)	799	200	"	1000	ND	79.9	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.8	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0312 - EPA 3550B										
Matrix Spike Dup (B2E0312-MSD1)		Source: Y205028-01			Prepared: 05/03/2022 Analyzed: 05/03/2022					
Diesel (C10-C28)	837	50.0	mg/kg	1000	ND	83.7	70-130	1.98	35	
Residual Range Organics (C28-C40)	793	200	"	1000	ND	79.3	70-130	0.704	35	
Surrogate: o-Terphenyl	39		"	49.8		79.3	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0332 - EPA 5030 (soil)										
Blank (B2E0332-BLK1)					Prepared: 05/03/2022 Analyzed: 05/04/2022					
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	0.12		"	0.125	99.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.4		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 - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0332 - EPA 5030 (soil)										
LCS (B2E0332-BS1)					Prepared: 05/03/2022 Analyzed: 05/04/2022					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.0998	0.00200	"	0.100		99.8	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.124	0.0100	"	0.100		124	70-130			
Toluene	0.111	0.00200	"	0.100		111	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 B2E0332 - EPA 5030 (soil)

Matrix Spike (B2E0332-MS1)		Source: Y205030-01			Prepared: 05/03/2022 Analyzed: 05/04/2022					
1,2,4-Trimethylbenzene	0.0973	0.00200	mg/kg	0.100	ND	97.3	70-130			
1,3,5-Trimethylbenzene	0.0974	0.00200	"	0.100	ND	97.4	70-130			
Benzene	0.0994	0.00200	"	0.100	ND	99.4	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.116	0.0100	"	0.100	ND	116	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0332 - EPA 5030 (soil)										
Matrix Spike Dup (B2E0332-MSD1)			Source: Y205030-01		Prepared: 05/03/2022 Analyzed: 05/04/2022					
1,2,4-Trimethylbenzene	0.0958	0.00200	mg/kg	0.100	ND	95.8	70-130	1.57	20	
1,3,5-Trimethylbenzene	0.0958	0.00200	"	0.100	ND	95.8	70-130	1.68	20	
Benzene	0.0994	0.00200	"	0.100	ND	99.4	70-130	0.0201	20	
Ethylbenzene	0.0980	0.00200	"	0.100	ND	98.0	70-130	3.09	20	
Naphthalene	0.116	0.0100	"	0.100	ND	116	70-130	0.585	20	
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	0.168	20	
o-Xylene	0.0977	0.00200	"	0.100	ND	97.7	70-130	1.32	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.6	70-130	2.48	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0333 - EPA 5030 (soil)										
Blank (B2E0333-BLK1)					Prepared: 05/03/2022 Analyzed: 05/05/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.0		70-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 B2E0333 - EPA 5030 (soil)

LCS (B2E0333-BS1)

Prepared: 05/03/2022 Analyzed: 05/05/2022

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.100	0.0100	"	0.100		100	70-130			
Toluene	0.111	0.00200	"	0.100		111	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 B2E0333 - EPA 5030 (soil)

Matrix Spike (B2E0333-MS1)		Source: Y205030-21			Prepared: 05/03/2022 Analyzed: 05/05/2022					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.0936	0.0100	"	0.100	0.000580	93.0	70-130			
Toluene	0.112	0.00200	"	0.100	ND	112	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 B2E0333 - EPA 5030 (soil)

Matrix Spike Dup (B2E0333-MSD1)		Source: Y205030-21			Prepared: 05/03/2022 Analyzed: 05/05/2022					
1,2,4-Trimethylbenzene	0.0976	0.00200	mg/kg	0.100	ND	97.6	70-130	5.79	20	
1,3,5-Trimethylbenzene	0.0985	0.00200	"	0.100	ND	98.5	70-130	5.47	20	
Benzene	0.0983	0.00200	"	0.100	ND	98.3	70-130	3.83	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	5.44	20	
Naphthalene	0.0924	0.0100	"	0.100	0.000580	91.8	70-130	1.23	20	
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	4.92	20	
o-Xylene	0.0992	0.00200	"	0.100	ND	99.2	70-130	5.74	20	
m,p-Xylene	0.205	0.00400	"	0.200	ND	102	70-130	5.24	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Project Number: [none]
Project: Bonanza - Pronghorn F-17 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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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 B2E0323 - NO PREP

Blank (B2E0323-BLK1)

Prepared: 05/03/2022 Analyzed: 05/07/2022

Specific Conductance (EC) 0.00110 0.00500 mmhos/cm

Duplicate (B2E0323-DUP1)

Source: Y205030-05

Prepared: 05/03/2022 Analyzed: 05/11/2022

Specific Conductance (EC) 0.178 0.00500 mmhos/cm 0.186 4.29 25

Batch B2E0324 - NO PREP

Duplicate (B2E0324-DUP1)

Source: Y205030-05

Prepared: 05/03/2022 Analyzed: 05/11/2022

pH 8.45 pH Units 8.50 0.590 25

Batch B2E0327 - NO PREP

Blank (B2E0327-BLK1)

Prepared: 05/04/2022 Analyzed: 05/05/2022

Specific Conductance (EC) 0.00100 0.00500 mmhos/cm

Duplicate (B2E0327-DUP1)

Source: Y205030-24

Prepared: 05/04/2022 Analyzed: 05/05/2022

Specific Conductance (EC) 0.211 0.00500 mmhos/cm 0.210 0.618 25

Batch B2E0328 - NO PREP

Duplicate (B2E0328-DUP1)

Source: Y205030-24

Prepared: 05/04/2022 Analyzed: 05/05/2022

pH 8.42 pH Units 8.49 0.828 25

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Project: Bonanza - Pronghorn F-17 Pad

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0606 - NO PREP										
Blank (B2E0606-BLK1)					Prepared: 05/06/2022 Analyzed: 05/07/2022					
Specific Conductance (EC)	0.000800	0.00500	mmhos/cm							
Duplicate (B2E0606-DUP1)					Source: Y205028-05		Prepared: 05/06/2022 Analyzed: 05/12/2022			
Specific Conductance (EC)	0.0586	0.00500	mmhos/cm		0.0604			3.03	25	
Batch B2E0607 - NO PREP										
Duplicate (B2E0607-DUP1)					Source: Y205028-05		Prepared: 05/06/2022 Analyzed: 05/12/2022			
pH	6.81		pH Units		6.69			1.78	25	

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Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 L614511 - 3550B

MSD (L 85960-MSD-L614511)		Source: Y205030-22			Prepared: 05/05/2022 Analyzed: 05/06/2022					
1-Methylnaphthalene	0.0892	0.000364	mg/Kg	0.164	<0.000364	54.3	30-130	8.6	30	
2-Methylnaphthalene	0.0894	0.000645	"	0.164	<0.000645	54.5	30-130	8.8	30	
Acenaphthene	0.097	0.000304	"	0.164	<0.000304	59.1	30-130	7.3	30	
Anthracene	0.116	0.000334	"	0.164	<0.000334	70.7	30-130	1.7	30	
Benzo(a)anthracene	0.108	0.000493	"	0.164	<0.000493	65.8	30-130	0.9	30	
Naphthalene	0.0862	0.000484	"	0.164	<0.000484	52.5	30-130	8.2	30	
Benzo(b)fluoranthene	0.0898	0.000585	"	0.164	<0.000585	54.7	30-130	12.4	30	
Benzo(k)fluoranthene	0.077	0.000437	"	0.164	<0.000437	46.9	30-130	12	30	
Chrysene	0.099	0.000624	"	0.164	<0.000624	60.3	30-130	0.5	30	
Dibenz(a,h)anthracene	0.125	0.000614	"	0.164	0.000768	75.7	30-130	2.4	30	
Fluoranthene	0.118	0.000394	"	0.164	<0.000394	71.9	30-130	0	30	
Fluorene	0.105	0.000286	"	0.164	<0.000286	64	30-130	5.9	30	
Indeno(1,2,3-cd)pyrene	0.132	0.000627	"	0.164	0.00175	79.4	30-130	1.5	30	
Pyrene	0.112	0.000643	"	0.164	<0.000643	68.2	30-130	0.8	30	
Benzo(a)pyrene	0.109	0.000468	"	0.164	<0.000468	66.4	30-130	0.9	30	
Surrogate: 2-Fluorobiphenyl	47.7		"	0.329	144	47.7	33-115			
Surrogate: Nitrobenzene-d5	43.1		"	0.329	135	43.1	29-110			
Surrogate: 4-Terphenyl-d14	60.7		"	0.329	189	60.7	33-122			

MS (L 85960-MS-L614511)		Source: Y205030-22			Prepared: 05/05/2022 Analyzed: 05/06/2022					
Chrysene	0.0995	0.000624	mg/Kg	0.165	<0.000624	60.3	30-130			
Dibenz(a,h)anthracene	0.122	0.000614	"	0.165	0.000768	73.4	30-130			
Fluoranthene	0.118	0.000394	"	0.165	<0.000394	71.5	30-130			
Fluorene	0.0989	0.000286	"	0.165	<0.000286	59.9	30-130			
Indeno(1,2,3-cd)pyrene	0.13	0.000627	"	0.165	0.00175	77.7	30-130			
Benzo(k)fluoranthene	0.0869	0.000437	"	0.165	<0.000437	52.6	30-130			
Naphthalene	0.0794	0.000484	"	0.165	<0.000484	48.1	30-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 Pad

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Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L614511 - 3550B

MS (L 85960-MS-L614511)		Source: Y205030-22			Prepared: 05/05/2022 Analyzed: 05/06/2022					
Benzo(b)fluoranthene	0.0793	0.000585	mg/Kg	0.165	<0.000585	48	30-130			
Benzo(a)pyrene	0.108	0.000468	"	0.165	<0.000468	65.4	30-130			
Benzo(a)anthracene	0.109	0.000493	"	0.165	<0.000493	66	30-130			
Pyrene	0.113	0.000643	"	0.165	<0.000643	68.4	30-130			
Acenaphthene	0.0901	0.000304	"	0.165	<0.000304	54.6	30-130			
2-Methylnaphthalene	0.0818	0.000645	"	0.165	<0.000645	49.5	30-130			
1-Methylnaphthalene	0.0818	0.000364	"	0.165	<0.000364	49.5	30-130			
Anthracene	0.114	0.000334	"	0.165	<0.000334	69	30-130			
Surrogate: Nitrobenzene-d5	38.1		"	0.33	135	38.1	29-110			
Surrogate: 4-Terphenyl-d14	58.4		"	0.33	189	58.4	33-122			
Surrogate: 2-Fluorobiphenyl	42.4		"	0.33	144	42.4	33-115			

LCS (LCS-L614511)

Prepared: 05/05/2022 Analyzed: 05/06/2022

Benzo(k)fluoranthene	0.0895	0.000437	mg/Kg	0.167		53.5	30-130
2-Methylnaphthalene	0.097	0.000645	"	0.167		58	30-130
Acenaphthene	0.102	0.000304	"	0.167		61	30-130
Anthracene	0.13	0.000334	"	0.167		77.8	30-130
Benzo(a)anthracene	0.123	0.000493	"	0.167		73.6	30-130
Pyrene	0.127	0.000643	"	0.167		76	30-130
Benzo(b)fluoranthene	0.102	0.000585	"	0.167		61	30-130
Chrysene	0.117	0.000624	"	0.167		70	30-130
Dibenz(a,h)anthracene	0.143	0.000614	"	0.167		85.6	30-130
Fluoranthene	0.133	0.000394	"	0.167		79.6	30-130
Fluorene	0.111	0.000286	"	0.167		66.4	30-130
Indeno(1,2,3-cd)pyrene	0.142	0.000627	"	0.167		85	30-130
Naphthalene	0.0947	0.000484	"	0.167		56.7	30-130
Benzo(a)pyrene	0.121	0.000468	"	0.167		72.4	30-130

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Project: Bonanza - Pronghorn F-17 Pad

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L614511 - 3550B										
LCS (LCS-L614511)					Prepared: 05/05/2022 Analyzed: 05/06/2022					
1-Methylnaphthalene	0.096	0.000364	mg/Kg	0.167		57.4	30-130			
Surrogate: 2-Fluorobiphenyl	54.9		"	0.333		54.9	33-115			
Surrogate: 4-Terphenyl-d14	71.4		"	0.333		71.4	33-122			
Surrogate: Nitrobenzene-d5	51		"	0.333		51	29-110			
LRB (LRB-L614511)					Prepared: 05/05/2022 Analyzed: 05/06/2022					
Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	47.4		"	0.333		47.4	29-110			
Surrogate: 2-Fluorobiphenyl	47.7		"	0.333		47.7	33-115			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L614418 - 3550B

MSD (L 85940-MSD-L614418)		Source: Y205030-02			Prepared: 05/05/2022 Analyzed: 05/06/2022					
Naphthalene	0.0788	0.000484	mg/Kg	0.166	<0.000484	47.4	30-130	4.9	30	
Indeno(1,2,3-cd)pyrene	0.0815	0.000627	"	0.166	<0.000627	49	30-130	5.8	30	
Fluorene	0.0887	0.000286	"	0.166	<0.000286	53.4	30-130	8.1	30	
Fluoranthene	0.0974	0.000394	"	0.166	<0.000394	58.6	30-130	6.5	30	
Dibenz(a,h)anthracene	0.105	0.000614	"	0.166	<0.000614	63.2	30-130	2.8	30	
Chrysene	0.101	0.000624	"	0.166	<0.000624	60.8	30-130	8.5	30	
Benzo(k)fluoranthene	0.114	0.000437	"	0.166	<0.000437	68.6	30-130	4.4	30	
1-Methylnaphthalene	0.075	0.000364	"	0.166	<0.000364	45.1	30-130	12.2	30	
Pyrene	0.0964	0.000643	"	0.166	<0.000643	58	30-130	7.5	30	
Benzo(b)fluoranthene	0.0783	0.000585	"	0.166	<0.000585	47.1	30-130	14.5	30	
2-Methylnaphthalene	0.0758	0.000645	"	0.166	<0.000645	45.6	30-130	9.6	30	
Acenaphthene	0.0849	0.000304	"	0.166	<0.000304	51.1	30-130	7	30	
Anthracene	0.0904	0.000334	"	0.166	<0.000334	54.4	30-130	9.7	30	
Benzo(a)anthracene	0.0999	0.000493	"	0.166	<0.000493	60.1	30-130	8.7	30	
Benzo(a)pyrene	0.1	0.000468	"	0.166	<0.000468	60.2	30-130	8.6	30	
Surrogate: Nitrobenzene-d5	52.4		"	0.332	188	52.4	29-110			
Surrogate: 2-Fluorobiphenyl	45.1		"	0.332	159	45.1	33-115			
Surrogate: 4-Terphenyl-d14	63.8		"	0.332	218	63.8	33-122			

MS (L 85940-MS-L614418)		Source: Y205030-02			Prepared: 05/05/2022 Analyzed: 05/06/2022					
Benzo(a)pyrene	0.109	0.000468	mg/Kg	0.165	<0.000468	66	30-130			
Dibenz(a,h)anthracene	0.102	0.000614	"	0.165	<0.000614	61.8	30-130			
Chrysene	0.11	0.000624	"	0.165	<0.000624	66.6	30-130			
Benzo(k)fluoranthene	0.109	0.000437	"	0.165	<0.000437	66	30-130			
Benzo(b)fluoranthene	0.0906	0.000585	"	0.165	<0.000585	54.9	30-130			
Fluoranthene	0.104	0.000394	"	0.165	<0.000394	63	30-130			
Benzo(a)anthracene	0.109	0.000493	"	0.165	<0.000493	66	30-130			

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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 L614418 - 3550B

MS (L 85940-MS-L614418)		Source: Y205030-02			Prepared: 05/05/2022 Analyzed: 05/06/2022					
Anthracene	0.0997	0.000334	mg/Kg	0.165	<0.000334	60.4	30-130			
Acenaphthene	0.0911	0.000304	"	0.165	<0.000304	55.2	30-130			
2-Methylnaphthalene	0.0835	0.000645	"	0.165	<0.000645	50.6	30-130			
1-Methylnaphthalene	0.0848	0.000364	"	0.165	<0.000364	51.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0864	0.000627	"	0.165	<0.000627	52.3	30-130			
Naphthalene	0.0828	0.000484	"	0.165	<0.000484	50.1	30-130			
Pyrene	0.104	0.000643	"	0.165	<0.000643	63	30-130			
Fluorene	0.0962	0.000286	"	0.165	<0.000286	58.3	30-130			
Surrogate: 2-Fluorobiphenyl	47.8		"	0.33	159	47.8	33-115			
Surrogate: 4-Terphenyl-d14	68.7		"	0.33	218	68.7	33-122			
Surrogate: Nitrobenzene-d5	52.7		"	0.33	188	52.7	29-110			

LCS (LCS-L614418)

Prepared: 05/05/2022 Analyzed: 05/06/2022

Indeno(1,2,3-cd)pyrene	0.11	0.000627	mg/Kg	0.167		65.8	30-130
Naphthalene	0.101	0.000484	"	0.167		60.4	30-130
Pyrene	0.118	0.000643	"	0.167		70.6	30-130
1-Methylnaphthalene	0.1	0.000364	"	0.167		59.8	30-130
2-Methylnaphthalene	0.1	0.000645	"	0.167		59.8	30-130
Acenaphthene	0.106	0.000304	"	0.167		63.4	30-130
Anthracene	0.107	0.000334	"	0.167		64	30-130
Dibenz(a,h)anthracene	0.125	0.000614	"	0.167		74.8	30-130
Fluoranthene	0.119	0.000394	"	0.167		71.2	30-130
Benzo(a)anthracene	0.12	0.000493	"	0.167		71.8	30-130
Chrysene	0.124	0.000624	"	0.167		74.2	30-130
Benzo(k)fluoranthene	0.125	0.000437	"	0.167		74.8	30-130
Benzo(b)fluoranthene	0.107	0.000585	"	0.167		64	30-130
Benzo(a)pyrene	0.125	0.000468	"	0.167		74.8	30-130

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Pronghorn F-17 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
Batch L614418 - 3550B										
LCS (LCS-L614418)					Prepared: 05/05/2022 Analyzed: 05/06/2022					
Fluorene	0.11	0.000286	mg/Kg	0.167		65.8	30-130			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333		73.8	33-122			
Surrogate: Nitrobenzene-d5	63.9		"	0.333		63.9	29-110			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.333		56.1	33-115			
LRB (LRB-L614418)					Prepared: 05/05/2022 Analyzed: 05/06/2022					
Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			
Surrogate: 4-Terphenyl-d14	81.3		"	0.333		81.3	33-122			
Surrogate: Nitrobenzene-d5	71.1		"	0.333		71.1	29-110			

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Notes and Definitions

U Sample is Non-Detect.

J-02 Reported value failed to meet established quality control criteria for the precision accuracy.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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