

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
PDC 69175
RAINANCE FD OFF-SITE TANK PAD 20-202HNX, WELD COUNTY, COLORADO
REM # NA

| Sample ID | Sample Date | Depth (ft) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-Benzene (mg/kg) | Xylenes (mg/kg) | 1,2,4- Trimethyl- Benzene (mg/kg) | 1,3,5- Trimethyl- Benzene (mg/kg) | Naphthalene (mg/kg) | TPH (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) |
|---|-------------|------------|--------------------|--------------------|--------------------------|--------------------|--|--|------------------------|----------------|--------------------|--------------------|--------------------|
| ECMC Table 915-1 Limits (Residential SSL) | | | 1.2 | 490 | 5.8 | 58 | 30 | 27 | 2 | 500 | 500** | | |
| ECMC Table 915-1 Limits (Protection of Groundwater SSL) | | | 0.0026 | 0.69 | 0.78 | 9.9 | 0.0081 | 0.0087 | 0.0038 | 500 | 500** | | |
| Waste Char. | 03/22/2024 | Grab | 34 | 160 | 50 | 220 | 69 | 19 | 8.4 | 22038 | 9000 | 12000 | 1300 |
| SS-01 1.5FT | 03/22/2024 | 1.5 | 0.023 | 0.046 | 0.024 | 0.14 | 0.11 | 0.027 | 0.044 | <500 | 3.3 | <50 | <50 |
| SS-01 2.5FT | 03/22/2024 | 2.5 | <0.0020 | 0.0085 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-04 1FT | 03/22/2024 | 1 | <0.0020 | 0.0081 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-12 0.5FT | 03/25/2024 | 0.5 | <0.0020 | 0.040 | 0.01 | <0.010 | 0.020 | 0.0054 | <0.0038 | <500 | 0.75 | <50 | <50 |
| SS-13 2FT | 03/25/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-14 2FT | 03/25/2024 | 2 | <0.0020 | 0.018 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-15 2FT | 03/25/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-16 2FT | 03/25/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-17 3FT | 03/25/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-01 4 FT | 3/26/2024 | 4 | <0.0020 | 0.033 | <0.0050 | 0.015 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-02 4 FT | 3/26/2024 | 4 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-18 2 FT | 3/26/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-19 2 FT | 3/26/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-20 2 FT | 3/26/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-21 3 FT | 3/26/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-22-N 1.5 Ft | 3/28/2024 | 1.5 | <0.0020 | 1.1 | 2.9 | 19.0 | 18.0 | 4.8 | 2.5 | 2480 | 780 | 1400 | 300 |
| SS-22-S 1.5 Ft | 3/28/2024 | 1.5 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-22 2 Ft | 3/28/2024 | 2 | <0.0020 | 0.016 | <0.0050 | 0.012 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-23-N 1.5 Ft | 3/28/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-23-S 1.5 Ft | 3/28/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-23 2 Ft | 3/28/2024 | 3 | <0.0020 | 0.022 | 0.0058 | 0.029 | 0.0078 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-24-N 2 Ft | 3/28/2024 | 2.5 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-24-S 2 Ft | 3/28/2024 | 2.5 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-24 3 Ft | 3/28/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-25 -N 3 Ft | 3/28/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-25-S 3 Ft | 3/28/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-25 4 Ft | 3/28/2024 | 4 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-26-N 3 Ft | 3/28/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-26-S 3 Ft | 3/28/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-26 4 Ft | 3/28/2024 | 4 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-27-N 2 Ft | 3/28/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-27-S 2 Ft | 3/28/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-27 3 Ft | 3/28/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-28-N 2.5 Ft | 3/28/2024 | 2.5 | 0.13 | 0.72 | 0.27 | 1.2 | 0.45 | 0.12 | 0.044 | 5528 | 38 | 4600 | 890 |
| SS-28-S 2.5 Ft | 3/28/2024 | 2.5 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-28 3 Ft | 3/28/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-40 3 Ft | 3/29/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-41 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | 0.014 | 0.064 | 0.036 | <0.0050 | <0.0038 | 602 | 2.0 | 440 | 160 |
| SS-42 2 Ft | 3/29/2024 | 2 | 0.65 | 1.5 | 0.82 | 3.9 | 1.7 | 0.45 | 0.093 | 528 | 98 | 340 | 90 |
| SS-43 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-44 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-45 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-40 3 Ft | 3/29/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |

| Sample ID | Sample Date | Depth (ft) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-Benzene (mg/kg) | Xylenes (mg/kg) | 1,2,4-Trimethyl-Benzene (mg/kg) | 1,3,5-Trimethyl-Benzene (mg/kg) | Naphthalene (mg/kg) | TPH (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) |
|---|-------------|------------|-----------------|-----------------|-----------------------|-----------------|---------------------------------|---------------------------------|---------------------|-------------|-----------------|-----------------|-----------------|
| ECMC Table 915-1 Limits (Residential SSL) | | | 1.2 | 490 | 5.8 | 58 | 30 | 27 | 2 | 500 | 500** | | |
| ECMC Table 915-1 Limits (Protection of Groundwater SSL) | | | 0.0026 | 0.69 | 0.78 | 9.9 | 0.0081 | 0.0087 | 0.0038 | 500 | 500** | | |
| FS-41 3 Ft | 3/29/2024 | 3 | <0.0020 | 0.15 | 0.071 | 0.33 | 0.14 | 0.032 | <0.0038 | 6.9 | 6.9 | <50 | <50 |
| FS-42 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-43 3 Ft | 3/29/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-44 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | 0.032 | 0.010 | <0.0050 | <0.0038 | 0.90 | 0.90 | <50 | <50 |
| FS-45 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-29-N 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-29-S 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-29 3 Ft | 3/29/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-30-N 2 Ft | 3/29/2024 | 2 | 0.22 | 0.68 | 0.21 | 1.0 | 0.19 | 0.048 | 0.035 | 17 | 17 | <50 | <50 |
| SS-30-S 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-30 3 Ft | 3/29/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-46 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-47 2 Ft | 3/29/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-Release 6 Ft | 4/1/2024 | 6 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-30-N-2 3 Ft | 4/2/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-41-2 | 4/2/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-42-2 | 4/2/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-41-2 | 4/2/2024 | 3.5 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-44-2 | 4/2/2024 | 2.5 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-28-N-2 | 4/5/2024 | 3 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-48 1 Ft | 4/5/2024 | 1 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-49 2 Ft | 4/5/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-50 2 Ft | 4/5/2024 | 2 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-46 | 4/5/2024 | 1 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-47 | 4/5/2024 | 1.5 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-48 | 4/5/2024 | 1 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-49 | 4/5/2024 | 1 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-50 | 4/5/2024 | 1 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| FS-51 0.5 Ft | 4/5/2024 | 0.5 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SS-51 | 4/9/2024 | 2.5 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <500 | <0.200 | <25.0 | <100 |
| SS-52 | 4/9/2024 | 1.5 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <500 | <0.200 | <25.0 | <100 |
| SS-53 | 4/9/2024 | 1.5 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <500 | <0.200 | <25.0 | <100 |
| SS-54 | 4/9/2024 | 1.5 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <500 | <0.200 | <25.0 | <100 |
| FS-51 | 4/9/2024 | 2 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <500 | <0.200 | <25.0 | <100 |
| FS-52 | 4/9/2024 | 2 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <500 | <0.200 | <25.0 | <100 |
| SS-22-N-2 | 4/9/2024 | 2 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <500 | <0.200 | <25.0 | <100 |

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. * Indicates laboratory minimum detection limit in excess of SSL

4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

Source material characterization sample, excavated and transported off site for disposal.

Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
PDC 69175
RAINDANCE FD OFF-SITE PAD, WELD COUNTY, COLORADO
REM # None

| Sample ID | Sample Date | Depth (ft) | 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) | Pyrene (mg/kg) | 1-Methyl - Naphthalene (mg/kg) | 2-Methyl- Naphthalene (mg/kg) |
|---|-------------|------------|----------------------|--------------------|------------------------------|--------------------------|--------------------------------|--------------------------------|------------------|----------------------------------|----------------------|------------------|----------------------------------|----------------|--------------------------------|-------------------------------|
| ECMC Table 915-1 Limits (Residential SSL) | | | 360 | 1800 | 1.1 | 0.11 | 1.1 | 11 | 110 | 0.11 | 240 | 240 | 1.1 | 180 | 18 | 24 |
| ECMC Table 915-1 Limits (Protection of Groundwater SSL) | | | 0.55 | 5.8 | 0.011 | 0.24 | 0.3 | 2.9 | 9 | 0.096 | 8.9 | 0.54 | 0.98 | 1.3 | 0.006 | 0.019 |
| Waste Char. | 03/22/2024 | Grab | 0.524 | <0.00500 | 0.485 | <0.00500 | <0.00500 | <0.00500 | 0.303 | <0.00500 | <0.00500 | 2.13 | <0.00500 | <0.00500 | 21.9 | 40.6 |
| SS-01 1.5FT | 03/22/2024 | 1.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.0094 | <0.00500 | <0.00500 | <0.00500 | 0.0454 | 0.0655 |
| SS-01 2.5FT | 03/22/2024 | 2.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-04 1 FT | 03/22/2024 | 1 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-12 0.5FT | 03/25/2024 | 0.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-13 2FT | 03/25/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-14 2FT | 03/25/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-15 2FT | 03/25/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-16 2FT | 03/25/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-17 3FT | 03/25/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-01 4 FT | 3/26/2024 | 4 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-02 4 FT | 3/26/2024 | 4 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-18 2 FT | 3/26/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-19 2 FT | 3/26/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-20 2 FT | 3/26/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-21 3 FT | 3/26/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-22-N 1.5 Ft | 3/28/2024 | 1.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.0114 | <0.00500 | <0.00500 | 0.288 | 0.269 |
| SS-22-S 1.5 Ft | 3/28/2024 | 1.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-22 2 Ft | 3/28/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-23-N 1.5 Ft | 3/28/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-23-S 1.5 Ft | 3/28/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-23 2 Ft | 3/28/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-24-N 2 Ft | 3/28/2024 | 2.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-24-S 2 Ft | 3/28/2024 | 2.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-24 3 Ft | 3/28/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-25 -N 3 Ft | 3/28/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-25-S 3 Ft | 3/28/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-25 4 Ft | 3/28/2024 | 4 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-26-N 3 Ft | 3/28/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-26-S 3 Ft | 3/28/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-26 4 Ft | 3/28/2024 | 4 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-27-N 2 Ft | 3/28/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-27-S 2 Ft | 3/28/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-27 3 Ft | 3/28/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-28-N 2.5 Ft | 3/28/2024 | 2.5 | <0.00500 | <0.00500 | 0.151 | <0.00500 | <0.00500 | <0.00500 | 0.0583 | <0.00500 | <0.00500 | 0.530 | <0.00500 | <0.00500 | 17.0 | 25.9 |
| SS-28-S 2.5 Ft | 3/28/2024 | 2.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-28 3 Ft | 3/28/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-40 3 Ft | 3/29/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-41 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-42 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | 0.0052 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.0127 | <0.00500 | <0.00500 | 0.142 | 0.155 |
| SS-43 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-44 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-45 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |

| Sample ID | Sample Date | Depth (ft) | 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) | Pyrene (mg/kg) | 1-Methyl - Naphthalene (mg/kg) | 2-Methyl- Naphthalene (mg/kg) |
|---|-------------|------------|-------------------------|-----------------------|------------------------------------|--------------------------------|--------------------------------------|--------------------------------------|---------------------|--|-------------------------|---------------------|---|-------------------|--------------------------------------|-------------------------------------|
| ECMC Table 915-1 Limits (Residential SSL) | | | 360 | 1800 | 1.1 | 0.11 | 1.1 | 11 | 110 | 0.11 | 240 | 240 | 1.1 | 180 | 18 | 24 |
| ECMC Table 915-1 Limits (Protection of Groundwater SSL) | | | 0.55 | 5.8 | 0.011 | 0.24 | 0.3 | 2.9 | 9 | 0.096 | 8.9 | 0.54 | 0.98 | 1.3 | 0.006 | 0.019 |
| FS-40 3 Ft | 3/29/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-41 3 Ft | 3/29/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.00688 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-42 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-43 3 Ft | 3/29/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-44 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.0393 | 0.044 |
| FS-45 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-29-N 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-29-S 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-29 3 Ft | 3/29/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-30-N 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | 0.0117 | <0.00500 | 0.00618 | <0.00500 | 0.0101 | <0.00500 | <0.00500 | 0.033 | <0.00500 | 0.0115 | 0.322 | 0.335 |
| SS-30-S 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-30 3 Ft | 3/29/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-46 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-47 2 Ft | 3/29/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-Release 6 Ft | 4/1/2024 | 6 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-30-N-2 3 Ft | 4/2/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-41-2 | 4/2/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-42-2 | 4/2/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-41-2 | 4/2/2024 | 3.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-44-2 | 4/2/2024 | 2.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-28-N-2 | 4/5/2024 | 3 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-48 1 Ft | 4/5/2024 | 1 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-49 2 Ft | 4/5/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-50 2 Ft | 4/5/2024 | 2 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-46 | 4/5/2024 | 1 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-47 | 4/5/2024 | 1.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-48 | 4/5/2024 | 1 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-49 | 4/5/2024 | 1 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-50 | 4/5/2024 | 1 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS-51 0.5 Ft | 4/5/2024 | 0.5 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS-51 | 4/9/2024 | 2.5 | <0.020 | <0.020 | <0.005 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.002 | <0.002 |
| SS-52 | 4/9/2024 | 1.5 | <0.020 | <0.020 | <0.005 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.002 | <0.002 |
| SS-53 | 4/9/2024 | 1.5 | <0.020 | <0.020 | <0.005 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.002 | <0.002 |
| SS-54 | 4/9/2024 | 1.5 | <0.020 | <0.020 | 0.005 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.002 | <0.002 |
| FS-51 | 4/9/2024 | 2 | <0.020 | <0.020 | <0.005 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.002 | <0.002 |
| FS-52 | 4/9/2024 | 2 | <0.020 | <0.020 | <0.005 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.002 | <0.002 |
| SS-22-N-2 | 4/9/2024 | 2 | <0.020 | <0.020 | <0.005 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.002 | <0.002 |

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. * Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
PDC 69175
RAINDANCE FD OFFSITE PAD, WELD COUNTY, COLORADO
REM #

| Sample ID | Sample Date | Depth (ft) | pH (Standard Units) | EC (mmhos/cm) | SAR (Standard Units) | Boron (mg/L) |
|--|-------------|------------|---------------------------|------------------|----------------------------|-----------------|
| ECMC Table 915-1 Soil Suitability Limits | | | 6 - 8.3 | <4 | <6 | 2 |
| Waste Char. | 03/22/2024 | Grab | 8.82 | 0.143 | 0.682 | <2.00 |
| SS-01 1.5FT | 03/22/2024 | 1.5 | 7.9 | 2.12 | 0.818 | <2.00 |
| SS-01 2.5FT | 03/22/2024 | 2.5 | 7.88 | 3.82 | 1.41 | <2.00 |
| SS-04 1FT | 03/22/2024 | 1 | 8.44 | 0.209 | 0.525 | <2.00 |
| SS-12 0.5FT | 03/25/2024 | 0.5 | 8.53 | 0.155 | 0.118 | <2.00 |
| SS-13 2FT | 03/25/2024 | 2 | 7.87 | 3.01 | 0.757 | <2.00 |
| SS-14 2FT | 03/25/2024 | 2 | 8.07 | 1.04 | 0.106 | <2.00 |
| SS-15 2FT | 03/25/2024 | 2 | 8.23 | 0.303 | 0.347 | <2.00 |
| SS-16 2FT | 03/25/2024 | 2 | 7.99 | 1.55 | 1.64 | <2.00 |
| SS-17 3FT | 03/25/2024 | 3 | 7.90 | 2.48 | 0.536 | <2.00 |
| FS-01 4 FT | 3/26/2024 | 4 | 8.28 | 0.744 | 1.41 | <2.00 |
| FS-02 4 FT | 3/26/2024 | 4 | 8.04 | 3 | 1.39 | <2.00 |
| SS-18 2 FT | 3/26/2024 | 2 | 8.01 | 2.79 | 0.938 | <2.00 |
| SS-19 2 FT | 3/26/2024 | 2 | 8.57 | 0.255 | 0.213 | <2.00 |
| SS-20 2 FT | 3/26/2024 | 2 | 8.25 | 0.683 | 0.135 | <2.00 |
| SS-21 3 FT | 3/26/2024 | 3 | 8.2 | 1.07 | 0.967 | <2.00 |
| SS-22-N 1.5 Ft | 3/28/2024 | 1.5 | 8.52 | 0.951 | 4.22 | <2.00 |
| SS-22-S 1.5 Ft | 3/28/2024 | 1.5 | 8.34 | 1 | 0.239 | <2.00 |
| FS-22 2 Ft | 3/28/2024 | 2 | 8.45 | 0.888 | 0.252 | <2.00 |
| SS-23-N 1.5 Ft | 3/28/2024 | 3 | 8.24 | 1.1 | 0.263 | <2.00 |
| SS-23-S 1,5 Ft | 3/28/2024 | 3 | 8.54 | 0.327 | 0.335 | <2.00 |
| FS-23 2 Ft | 3/28/2024 | 3 | 8.37 | 1.03 | 0.25 | <2.00 |
| SS-24-N 2 Ft | 3/28/2024 | 2.5 | 8.39 | 0.869 | 0.248 | <2.00 |
| SS-24-S 2 Ft | 3/28/2024 | 2.5 | 8.43 | 1.32 | 1.55 | <2.00 |
| FS-24 3 Ft | 3/28/2024 | 3 | 8.26 | 1.3 | 0.767 | <2.00 |
| SS-25 -N 3 Ft | 3/28/2024 | 3 | 8.55 | 1.16 | 1.6 | <2.00 |
| SS-25-S 3 Ft | 3/28/2024 | 3 | 8.43 | 1.18 | 1.33 | <2.00 |
| FS-25 4 Ft | 3/28/2024 | 4 | 8.47 | 1.38 | 1.03 | <2.00 |
| SS-26-N 3 Ft | 3/28/2024 | 3 | 8.26 | 1.68 | 0.315 | <2.00 |
| SS-26-S 3 Ft | 3/28/2024 | 3 | 8.56 | 0.888 | 0.54 | <2.00 |
| FS-26 4 Ft | 3/28/2024 | 4 | 8.38 | 1.07 | 0.165 | <2.00 |
| SS-27-N 2 Ft | 3/28/2024 | 2 | 8.36 | 1.07 | 0.208 | <2.00 |
| SS-27-S 2 Ft | 3/28/2024 | 2 | 8.51 | 0.832 | 0.373 | <2.00 |

| Sample ID | Sample Date | Depth (ft) | pH (Standard Units) | EC (mmhos/cm) | SAR (Standard Units) | Boron (mg/L) |
|--|-------------|------------|---------------------------|------------------|----------------------------|-----------------|
| ECMC Table 915-1 Soil Suitability Limits | | | 6 - 8.3 | <4 | <6 | 2 |
| FS-27 3 Ft | 3/28/2024 | 3 | 8.62 | 0.547 | 0.338 | <2.00 |
| SS-28-N 2.5 Ft | 3/28/2024 | 2.5 | 8.21 | 0.298 | 0.114 | <2.00 |
| SS-28-S 2.5 Ft | 3/28/2024 | 2.5 | 8.42 | 0.456 | 0.51 | <2.00 |
| FS-28 3 Ft | 3/28/2024 | 3 | 8.41 | 1.21 | 0.125 | <2.00 |
| SS-40 3 Ft | 3/29/2024 | 3 | 7.91 | 2.6 | 0.746 | <2.00 |
| SS-41 2 Ft | 3/29/2024 | 2 | 8.04 | 1.76 | 0.769 | <2.00 |
| SS-42 2 Ft | 3/29/2024 | 2 | 7.83 | 1.48 | 0.474 | <2.00 |
| SS-43 2 Ft | 3/29/2024 | 2 | 8.00 | 2.82 | 1.06 | <2.00 |
| SS-44 2 Ft | 3/29/2024 | 2 | 8.09 | 1.31 | 0.39 | <2.00 |
| SS-45 2 Ft | 3/29/2024 | 2 | 8.15 | 0.873 | 0.779 | <2.00 |
| FS-40 3 Ft | 3/29/2024 | 3 | 7.92 | 4.28 | 1.61 | <2.00 |
| FS-41 3 Ft | 3/29/2024 | 3 | 8.05 | 2.00 | 0.803 | <2.00 |
| FS-42 2 Ft | 3/29/2024 | 2 | 7.95 | 2.68 | 1.55 | <2.00 |
| FS-43 3 Ft | 3/29/2024 | 3 | 8.31 | 0.881 | 1.92 | <2.00 |
| FS-44 2 Ft | 3/29/2024 | 2 | 8.02 | 2.71 | 2.46 | <2.00 |
| FS-45 2 Ft | 3/29/2024 | 2 | 7.9 | 3.59 | 1.65 | <2.00 |
| SS-29-N 2 Ft | 3/29/2024 | 2 | 8.11 | 1.39 | 0.925 | <2.00 |
| SS-29-S 2 Ft | 3/29/2024 | 2 | 8.35 | 0.384 | 0.33 | <2.00 |
| FS-29 3 Ft | 3/29/2024 | 3 | 7.97 | 2.02 | 0.621 | <2.00 |
| SS-30-N 2 Ft | 3/29/2024 | 2 | 8.29 | 0.222 | 0.174 | <2.00 |
| SS-30-S 2 Ft | 3/29/2024 | 2 | 8.22 | 0.489 | 0.825 | <2.00 |
| FS-30 3 Ft | 3/29/2024 | 3 | 8.16 | 0.633 | 0.28 | <2.00 |
| FS-46 2 Ft | 3/29/2024 | 2 | 8.16 | 1.18 | 1.09 | <2.00 |
| FS-47 2 Ft | 3/29/2024 | 2 | 7.96 | 2.54 | 1.06 | <2.00 |
| FS-Release 6 Ft | 4/1/2024 | 6 | 7.94 | 3.82 | 1.15 | <2.00 |
| SS-30-N-2 3 Ft | 4/2/2024 | 3 | 8.33 | 0.577 | 0.997 | <2.00 |
| SS-41-2 | 4/2/2024 | 2 | 7.95 | 3.96 | 1.27 | <2.00 |
| SS-42-2 | 4/2/2024 | 2 | 8.16 | 1.19 | 0.565 | <2.00 |
| FS-41-2 | 4/2/2024 | 3.5 | 7.88 | 4.54 | 0.797 | <2.00 |
| FS-44-2 | 4/2/2024 | 2.5 | 8.21 | 2.09 | 1.76 | <2.00 |
| SS-28-N-2 | 4/5/2024 | 3 | 8.21 | 0.83 | 0.392 | <2.00 |
| FS-48 1 Ft | 4/5/2024 | 1 | 8.12 | 1.84 | 1.47 | <2.00 |
| FS-49 2 Ft | 4/5/2024 | 2 | 8.24 | 1.66 | 1.27 | <2.00 |
| FS-50 2 Ft | 4/5/2024 | 2 | 8.26 | 1.39 | 0.834 | <2.00 |
| SS-46 | 4/5/2024 | 1 | 8.12 | 1.24 | 0.794 | <2.00 |
| SS-47 | 4/5/2024 | 1.5 | 8.2 | 1.53 | 1.65 | <2.00 |
| SS-48 | 4/5/2024 | 1 | 8.41 | 1.04 | 1.83 | <2.00 |
| SS-49 | 4/5/2024 | 1 | 8.55 | 0.708 | 0.92 | <2.00 |

| Sample ID | Sample Date | Depth (ft) | pH (Standard Units) | EC (mmhos/cm) | SAR (Standard Units) | Boron (mg/L) |
|--|-------------|------------|---------------------------|------------------|----------------------------|-----------------|
| ECMC Table 915-1 Soil Suitability Limits | | | 6 - 8.3 | <4 | <6 | 2 |
| SS-50 | 4/5/2024 | 1 | 8.62 | 0.692 | 1.62 | <2.00 |
| FS-51 0.5 Ft | 4/5/2024 | 0.5 | 8.53 | 0.252 | 0.304 | <2.00 |
| SS-51 | 4/9/2024 | 2.5 | 8.10 | 2.53 | 1.15 | 0.290 |
| SS-52 | 4/9/2024 | 1.5 | 7.98 | 2.38 | 0.748 | 0.347 |
| SS-53 | 4/9/2024 | 1.5 | 8.11 | 1.88 | 1.03 | 0.343 |
| SS-54 | 4/9/2024 | 1.5 | 8.11 | 1.99 | 0.220 | 0.331 |
| FS-51 | 4/9/2024 | 2 | 8.12 | 2.89 | 1.29 | 0.327 |
| FS-52 | 4/9/2024 | 2 | 8.13 | 2.99 | 0.869 | 0.220 |
| SS-22-N-2 | 4/9/2024 | 2 | 8.15 | 2.59 | 1.52 | 0.321 |
| Maximum Root Background Concentration (0 - 3 ft) | | | | | | |
| Average Root Background Concentration (0 - 3 ft) | | | | | | |
| Maximum Background Concentration | | | | | | |
| Average Background Concentration | | | | | | |

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

 = Source material characterization sample, excavated and transported off site for disposal.

 = Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
PDC 69175
RAINDANCE FD OFFSITE PAD, WELD COUNTY, COLORADO
REM #

| Sample ID | Sample Date | Depth (ft) | Arsenic (mg/kg) | Barium (mg/kg) | Cadmium (mg/kg) | Chromium (VI) (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Nickel (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Zinc (mg/kg) |
|---|-------------|------------|-----------------|----------------|-----------------|-----------------------|----------------|--------------|----------------|------------------|----------------|--------------|
| ECMC Table 915-1 Limits (Residential SSL) | | | 0.68 | 15000 | 71 | 0.3 | 3100 | 400 | 1500 | 390 | 390 | 23000 |
| ECMC Table 915-1 Limits (Protection of Groundwater SSL) | | | 0.29 | 82 | 0.38 | 0.00067 | 46 | 14 | 26 | 0.26 | 0.8 | 370 |
| Waste Char. | 03/22/2024 | Grab | 2.92 | 40.7 | <0.200 | <0.30 | 4.71 | 4.65 | 4.52 | <0.260 | 0.0262 | 18.7 |
| SS-01 1.5FT | 03/22/2024 | 1.5 | 5.83 | 16.5 | <0.200 | <0.30 | 5.01 | 10.6 | 7.2 | <0.260 | 0.0799 | 32.1 |
| SS-01 2.5FT | 03/22/2024 | 2.5 | 8.63 | 51.1 | 0.269 | <0.30 | 8.03 | 16.7 | 8.25 | 0.273 | 0.0986 | 35.8 |
| SS-04 1FT | 03/22/2024 | 1 | 9.08 | 96.1 | 0.322 | <0.30 | 8.59 | 18.6 | 9.1 | 0.365 | 0.105 | 37.7 |
| SS-12 0.5FT | 03/25/2024 | 0.5 | 6.80 | 103 | 0.316 | <0.30 | 4.97 | 6.42 | 4.39 | 1.1 | 0.0282 | 19 |
| SS-13 2FT | 03/25/2024 | 2 | 7.99 | 45.7 | 0.21 | <0.30 | 6.74 | 12.9 | 8.86 | 0.408 | 0.0813 | 33.5 |
| SS-14 2FT | 03/25/2024 | 2 | 3.93 | 56.0 | <0.200 | <0.30 | 5.63 | 6.82 | 5.05 | <0.260 | 0.0375 | 21.1 |
| SS-15 2FT | 03/25/2024 | 2 | 7.00 | 72.1 | 0.237 | <0.30 | 7.33 | 13.6 | 7.74 | 0.342 | 0.0729 | 32.6 |
| SS-16 2FT | 03/25/2024 | 2 | 6.41 | 81.4 | 0.218 | <0.30 | 7.47 | 12.4 | 7.84 | 0.29 | 0.0722 | 31.2 |
| SS-17 3FT | 03/25/2024 | 3 | 8.31 | 48.3 | 0.202 | <0.30 | 7.24 | 13.7 | 7.71 | 0.495 | 0.0752 | 32.4 |
| FS-01 4 FT | 3/26/2024 | 4 | 4.63 | 78.7 | <0.200 | <0.30 | 5.39 | 8.44 | 7.37 | <0.260 | 0.0379 | 28.5 |
| FS-02 4 FT | 3/26/2024 | 4 | 7.80 | 80.7 | 0.215 | <0.30 | 7.96 | 8.36 | 7.39 | <0.234 | 0.0296 | 37.8 |
| SS-18 2 FT | 3/26/2024 | 2 | 3.22 | 74.3 | <0.200 | <0.30 | 3.77 | 5.93 | 5.57 | <0.260 | <0.0200 | 20 |
| SS-19 2 FT | 3/26/2024 | 2 | 3.40 | 37.9 | <0.200 | <0.30 | 6.38 | 7.92 | 4.9 | <0.260 | 0.0367 | 36.5 |
| SS-20 2 FT | 3/26/2024 | 2 | 4.43 | 59.6 | <0.200 | <0.30 | 9.37 | 7.62 | 9.27 | <0.260 | 0.0441 | 35.6 |
| SS-21 3 FT | 3/26/2024 | 3 | 7.03 | 72.3 | 0.231 | <0.30 | 15.8 | 13.9 | 16.1 | 0.282 | 0.0826 | 64.4 |
| SS-22-N 1.5 Ft | 3/28/2024 | 1.5 | 1.81 | 31.8 | <0.200 | <0.30 | 5.66 | 3.53 | 3.37 | <0.260 | <0.0200 | 13.5 |
| SS-22-S 1.5 Ft | 3/28/2024 | 1.5 | 6.14 | 46.9 | 0.216 | <0.30 | 11.7 | 11.4 | 6.42 | 0.254 | 0.0723 | 42.1 |
| FS-22 2 Ft | 3/28/2024 | 2 | 6.04 | 42.9 | 0.211 | <0.30 | 11.1 | 11.7 | 6.88 | <0.260 | 0.0676 | 44.1 |
| SS-23-N 1.5 Ft | 3/28/2024 | 3 | 6.75 | 51.2 | 0.226 | <0.30 | 12.9 | 12.5 | 6.96 | 0.288 | 0.0738 | 49 |
| SS-23-S 1.5 Ft | 3/28/2024 | 3 | 5.98 | 49.8 | 0.205 | <0.30 | 11.7 | 11.3 | 6.85 | <0.260 | 0.0673 | 43.6 |
| FS-23 2 Ft | 3/28/2024 | 3 | 6.58 | 50.9 | 0.221 | <0.30 | 12.5 | 12.1 | 6.88 | 0.262 | 0.0702 | 45.5 |
| SS-24-N 2 Ft | 3/28/2024 | 2.5 | 7.18 | 54 | 0.215 | <0.30 | 13.4 | 12.7 | 7 | 0.342 | 0.0726 | 49.2 |
| SS-24-S 2 Ft | 3/28/2024 | 2.5 | 7.95 | 39.1 | 0.223 | <0.30 | 14.7 | 13.7 | 7.21 | 0.279 | 0.0929 | 54.6 |
| FS-24 3 Ft | 3/28/2024 | 3 | 7.97 | 38.3 | 0.222 | <0.30 | 11.8 | 12.5 | 7.57 | 0.295 | 0.0818 | 48.3 |
| SS-25 -N 3 Ft | 3/28/2024 | 3 | 6.86 | 59.4 | 0.225 | <0.30 | 12.4 | 12.4 | 7.06 | 0.373 | 0.0736 | 46.4 |
| SS-25-S 3 Ft | 3/28/2024 | 3 | 7.03 | 38.4 | <0.200 | <0.30 | 11.3 | 11.5 | 7.08 | <0.260 | 0.0688 | 46.7 |
| FS-25 4 Ft | 3/28/2024 | 4 | 7.12 | 53.7 | 0.221 | <0.30 | 12.4 | 12.7 | 6.88 | 0.343 | 0.0773 | 47.2 |
| SS-26-N 3 Ft | 3/28/2024 | 3 | 6.71 | 49.6 | 0.225 | <0.30 | 12.4 | 12 | 6.89 | 0.325 | 0.0707 | 45.7 |
| SS-26-S 3 Ft | 3/28/2024 | 3 | 6.93 | 39.7 | 0.214 | <0.30 | 10.9 | 11.7 | 7.43 | 0.277 | 0.0747 | 47.2 |

| Sample ID | Sample Date | Depth (ft) | Arsenic (mg/kg) | Barium (mg/kg) | Cadmium (mg/kg) | Chromium (VI) (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Nickel (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Zinc (mg/kg) |
|---|-------------|------------|-----------------|----------------|-----------------|-----------------------|----------------|--------------|----------------|------------------|----------------|--------------|
| ECMC Table 915-1 Limits (Residential SSL) | | | 0.68 | 15000 | 71 | 0.3 | 3100 | 400 | 1500 | 390 | 390 | 23000 |
| ECMC Table 915-1 Limits (Protection of Groundwater SSL) | | | 0.29 | 82 | 0.38 | 0.00067 | 46 | 14 | 26 | 0.26 | 0.8 | 370 |
| FS-26 4 Ft | 3/28/2024 | 4 | 7.03 | 52.8 | 0.224 | <0.30 | 12.9 | 12.6 | 6.93 | 0.352 | 0.0683 | 47.8 |
| SS-27-N 2 Ft | 3/28/2024 | 2 | 7.25 | 49.9 | 0.216 | <0.30 | 11.3 | 11.8 | 7.01 | 0.299 | 0.0737 | 46.1 |
| SS-27-S 2 Ft | 3/28/2024 | 2 | 7.07 | 54.7 | 0.224 | <0.30 | 13.3 | 12.4 | 6.8 | 0.27 | 0.0796 | 48.4 |
| FS-27 3 Ft | 3/28/2024 | 3 | 8.03 | 37.5 | 0.218 | <0.30 | 12.6 | 13.2 | 7.15 | 0.3 | 0.084 | 51.9 |
| SS-28-N 2.5 Ft | 3/28/2024 | 2.5 | 6.95 | 57.5 | 0.231 | <0.30 | 13.5 | 12.9 | 7.22 | 0.292 | 0.0731 | 49.8 |
| SS-28-S 2.5 Ft | 3/28/2024 | 2.5 | 6.58 | 61.2 | 0.225 | <0.30 | 13.3 | 12.8 | 6.82 | <0.260 | 0.0752 | 47.3 |
| FS-28 3 Ft | 3/28/2024 | 3 | 6.27 | 66.7 | 0.208 | <0.30 | 6.92 | 12 | 6.99 | <0.260 | 0.0977 | 51 |
| SS-40 3 Ft | 3/29/2024 | 3 | 7.14 | 61.1 | 0.243 | <0.30 | 13.8 | 12.4 | 14.7 | <0.260 | 0.076 | 59.8 |
| SS-41 2 Ft | 3/29/2024 | 2 | 7.03 | 24.5 | <0.200 | <0.30 | 9.79 | 10.6 | 13 | <0.260 | 0.0785 | 55.8 |
| SS-42 2 Ft | 3/29/2024 | 2 | 5.61 | 18.7 | <0.200 | <0.30 | 8.4 | 9.94 | 11.6 | <0.260 | 0.0748 | 50.2 |
| SS-43 2 Ft | 3/29/2024 | 2 | 7.25 | 74 | 0.267 | <0.30 | 14.7 | 12.9 | 16.4 | 0.266 | 0.076 | 63.4 |
| SS-44 2 Ft | 3/29/2024 | 2 | 6.15 | 67.3 | 0.239 | <0.30 | 12.9 | 10.9 | 19.1 | <0.260 | 0.0644 | 53 |
| SS-45 2 Ft | 3/29/2024 | 2 | 6.61 | 95.4 | 0.229 | <0.30 | 14 | 12 | 15.2 | <0.234 | 0.0677 | 58.6 |
| FS-40 3 Ft | 3/29/2024 | 3 | 7.23 | 46.9 | 0.227 | <0.30 | 13.9 | 12.5 | 14.5 | <0.260 | 0.0732 | 61 |
| FS-41 3 Ft | 3/29/2024 | 3 | 6.83 | 35.1 | <0.180 | <0.30 | 9.45 | 10.4 | 12.6 | <0.234 | 0.0693 | 51.1 |
| FS-42 2 Ft | 3/29/2024 | 2 | 7.68 | 39.3 | 0.224 | <0.30 | 15.2 | 13.6 | 15 | <0.260 | 0.0835 | 65.1 |
| FS-43 3 Ft | 3/29/2024 | 3 | 6.63 | 76.2 | 0.183 | <0.30 | 11.5 | 10.3 | 13.3 | 0.326 | 0.0464 | 51.5 |
| FS-44 2 Ft | 3/29/2024 | 2 | 6.66 | 71.1 | 0.236 | <0.30 | 14.1 | 12.1 | 14.9 | 0.321 | 0.0725 | 58.4 |
| FS-45 2 Ft | 3/29/2024 | 2 | 7.44 | 38.2 | 0.213 | <0.30 | 12.9 | 12.4 | 13.9 | 0.283 | 0.0741 | 58.6 |
| SS-29-N 2 Ft | 3/29/2024 | 2 | 6.98 | 57.4 | 0.205 | <0.30 | 14.1 | 12.3 | 14.6 | <0.260 | 0.0713 | 58.6 |
| SS-29-S 2 Ft | 3/29/2024 | 2 | 6.6 | 62 | 0.204 | <0.30 | 13.7 | 11.8 | 14 | <0.260 | 0.0715 | 55.8 |
| FS-29 3 Ft | 3/29/2024 | 3 | 6.89 | 72.1 | 0.233 | <0.30 | 14.5 | 12 | 14.8 | <0.260 | 0.0699 | 59.3 |
| SS-30-N 2 Ft | 3/29/2024 | 2 | 4.58 | 202 | 0.315 | <0.30 | 13.9 | 10 | 10.8 | <0.260 | 0.0403 | 33 |
| SS-30-S 2 Ft | 3/29/2024 | 2 | 6.31 | 64 | <0.200 | <0.30 | 12.2 | 11.2 | 13.5 | <0.260 | 0.0646 | 52.1 |
| FS-30 3 Ft | 3/29/2024 | 3 | 3.13 | 186 | <0.200 | <0.30 | 7.86 | 6.44 | 7.36 | <0.260 | 0.0344 | 25.7 |
| FS-46 2 Ft | 3/29/2024 | 2 | 7.38 | 45.2 | 0.206 | <0.30 | 12.8 | 12.2 | 14.2 | 0.239 | 0.0767 | 58.1 |
| FS-47 2 Ft | 3/29/2024 | 2 | 8.19 | 40.7 | 0.223 | <0.30 | 14.8 | 13.6 | 15 | 0.31 | 0.0838 | 64.7 |
| FS-Release 6 Ft | 4/1/2024 | 6 | 4.90 | 23.1 | <0.200 | <0.30 | 3.66 | 7.98 | 4.84 | <0.260 | 0.0508 | 20 |
| SS-30-N-2 3 Ft | 4/2/2024 | 3 | 3.35 | 300 | 0.225 | <0.30 | 8.96 | 7.9 | 5.07 | <0.260 | 0.0624 | 27.1 |
| SS-41-2 | 4/2/2024 | 2 | 6.01 | 28 | <0.200 | <0.30 | 10.2 | 10.9 | 6.51 | <0.260 | 0.0961 | 45.4 |
| SS-42-2 | 4/2/2024 | 2 | 5.16 | 15.5 | <0.181 | <0.30 | 7.91 | 9.64 | 6.12 | <0.236 | 0.0926 | 40.8 |
| FS-41-2 | 4/2/2024 | 3.5 | 7.08 | 44 | 0.258 | <0.30 | 13.9 | 13.3 | 7.09 | <0.260 | 0.0966 | 51.3 |
| FS-44-2 | 4/2/2024 | 2.5 | 6.66 | 66.4 | 0.261 | <0.30 | 13.2 | 12.4 | 7 | 0.33 | 0.0942 | 47.4 |
| SS-28-N-2 | 4/5/2024 | 3 | 6.74 | 56.9 | 0.214 | <0.30 | 12.9 | 12.5 | 14.1 | <0.260 | 0.073 | 56.8 |
| FS-48 1 Ft | 4/5/2024 | 1 | 7.35 | 35.7 | 0.221 | <0.30 | 12.6 | 13 | 13.8 | 0.278 | 0.0873 | 58.7 |

| Sample ID | Sample Date | Depth (ft) | Arsenic (mg/kg) | Barium (mg/kg) | Cadmium (mg/kg) | Chromium (VI) (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Nickel (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Zinc (mg/kg) |
|---|-------------|------------|-----------------|----------------|-----------------|-----------------------|----------------|--------------|----------------|------------------|----------------|--------------|
| ECMC Table 915-1 Limits (Residential SSL) | | | 0.68 | 15000 | 71 | 0.3 | 3100 | 400 | 1500 | 390 | 390 | 23000 |
| ECMC Table 915-1 Limits (Protection of Groundwater SSL) | | | 0.29 | 82 | 0.38 | 0.00067 | 46 | 14 | 26 | 0.26 | 0.8 | 370 |
| FS-49 2 Ft | 4/5/2024 | 2 | 7.51 | 50.4 | 0.22 | <0.30 | 13 | 12.7 | 13.9 | 0.3 | 0.0805 | 58 |
| FS-50 2 Ft | 4/5/2024 | 2 | 7.14 | 36.3 | 0.218 | <0.30 | 12.3 | 12.5 | 13.2 | 0.268 | 0.0772 | 56.1 |
| SS-46 | 4/5/2024 | 1 | 6.04 | 46 | 0.212 | <0.30 | 10.8 | 11 | 13.4 | <0.260 | 0.0726 | 51.4 |
| SS-47 | 4/5/2024 | 1.5 | 6.22 | 78.4 | 0.248 | <0.30 | 13.6 | 12.1 | 14.9 | <0.236 | 0.0774 | 56.2 |
| SS-48 | 4/5/2024 | 1 | 6.22 | 75.1 | 0.25 | <0.30 | 12.9 | 11.9 | 14.3 | <0.260 | 0.0715 | 54.2 |
| SS-49 | 4/5/2024 | 1 | 6.22 | 88.8 | 0.262 | <0.30 | 14.1 | 12.3 | 15.5 | <0.260 | 0.0753 | 57.3 |
| SS-50 | 4/5/2024 | 1 | 6.20 | 69.2 | 0.237 | <0.30 | 12.3 | 12 | 13.8 | <0.260 | 0.0712 | 53.2 |
| FS-51 0.5 Ft | 4/5/2024 | 0.5 | 5.96 | 34 | 0.215 | <0.30 | 9.96 | 10.8 | 11.4 | <0.260 | 0.063 | 46.9 |
| SS-51 | 4/9/2024 | 2.5 | 6.89 | 71.0 | 0.101 | <0.177 | 12.6 | 12.2 | 15.7 | 0.333 | 0.0878 | 59.5 |
| SS-52 | 4/9/2024 | 1.5 | 6.40 | 38.3 | 0.0960 | <0.120 | 9.62 | 11.2 | 13.7 | 0.277 | 0.101 | 54.8 |
| SS-53 | 4/9/2024 | 1.5 | 5.90 | 86.3 | 0.109 | <0.187 | 13.0 | 11.6 | 14.5 | 0.234 | <0.0894 | 54.7 |
| SS-54 | 4/9/2024 | 1.5 | 6.25 | 93.3 | 0.124 | <0.126 | 13.8 | 11.8 | 15.2 | 0.421 | 0.0864 | 57.3 |
| FS-51 | 4/9/2024 | 2 | 7.31 | 82.2 | 0.100 | <0.141 | 12.9 | 12.7 | 14.6 | 0.409 | 0.0968 | 59.4 |
| FS-52 | 4/9/2024 | 2 | 7.13 | 60.7 | <0.0968 | <0.174 | 14.2 | 14.1 | 14.8 | 0.394 | <0.0968 | 62.1 |
| SS-22-N-2 | 4/9/2024 | 2 | 7.12 | 69.4 | 0.0957 | <0.158 | 13.3 | 12.6 | 14.8 | 0.337 | 0.0983 | 60.8 |

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Source material characterization sample, excavated and transported off site for disposal.

Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF ARSENIC (As) CONCENTRATIONS IN EXCAVATED SOILS CALCULATION (BASED ON REPORTED SPILL VOLUME)
PDC ENERGY INC.
RAINDANCE PAD
FREMONT PROJECT NO. C024-066

Compare Mass of Arsenic (As) Excavated to Arsenic Released

| | |
|--|----------------|
| Arsenic Removed During Excavation | 6,407.31 grams |
| Arsenic Released Due to Spill | 0.011424 grams |
| Excess Arsenic Removed During Excavation | 6,407.30 grams |

Therefore, approximately 560,864 times more arsenic were removed via excavation than were released

Calculation of Arsenic Removed During Excavation

| Avg. As Concentration in Excav. Soil Samples | Mass of Excavated Soil | Mass of As in Exc. Soil |
|--|------------------------|-------------------------|
| 6.53 mg/kg | 981,211 kg | 6,407.31 grams |

Mass of excavated soil is: 832 cubic yards x 1.30 ton/CY = 1081.60 tons = 981,211 kg

Seventy-nine soil samples from the excavation were analyzed for arsenic; the average concentration was 6.53 mg/kg

Calculation of Arsenic Released Due to Spill

| Produced H2O/Oil Release Volume (bbl) | Produced H2O/Oil Volume (L) | As Concentration (ug/L) | As Mass Released (mg) | As Mass Released (g) |
|---------------------------------------|-----------------------------|-------------------------|---------------------------------------|----------------------|
| 72 | 11447.064 | 0.998 | (0.998 ug/L x 11447 L)/1000 11.424 | 0.011424 |

Net Volume of Produced Water Released: (72 bbl)(158.987 L/bbl) = 11447.06 L

1 kg/L is weight of water

Arsenic concentration in produced fluids sample was 0.998 ug/L

TABLE 6
SUMMARY OF BARIUM (Ba) CONCENTRATIONS IN EXCAVATED SOILS CALCULATION (BASED ON REPORTED SPILL VOLUME)
PDC ENERGY INC.
RAINDANCE PAD
FREMONT PROJECT NO. C024-066

Compare Mass of Barium (Ba) Excavated to Barium Released

| | |
|---|-----------------|
| Barium Removed During Excavation | 61,688.74 grams |
| Barium Released Due to Spill | 159.114 grams |
| Excess Barium Removed During Excavation | 61,529.63 grams |

Therefore, approximately 387 times more barium were removed via excavation than were released

Calculation of Barium Removed During Excavation

| Avg. Ba Concentration in Excav. Soil Samples | Mass of Excavated Soil | Mass of Ba in Exc. Soil |
|--|------------------------|-------------------------|
| 62.87 mg/kg | 981,211 kg | 61,688.74 grams |

Mass of excavated soil is: 832 cubic yards x 1.30 ton/CY = 1081.60 tons = 981,211 kg

Seventy-nine soil samples from the excavation were analyzed for barium; the average concentration was 62.87 mg/kg

Calculation of Barium Released Due to Spill

| Produced H2O/Oil Release Volume (bbl) | Produced H2O/Oil Volume (L) | Ba Concentration (ug/L) | Ba Mass Released (mg) | Ba Mass Released (g) |
|---------------------------------------|-----------------------------|-------------------------|---|----------------------|
| 72 | 11447.064 | 13900 | (13900 ug/L x 11447 L)/1000 159114.190 | 159.114 |

Net Volume of Produced Water Released: (72 bbl)(158.987 L/bbl) = 11447.06 L

1 kg/L is weight of water

Barium concentration in produced fluid sample was 13,900 ug/L (see lab report)

TABLE 7
SUMMARY OF Selenium (Se) CONCENTRATIONS IN EXCAVATED SOILS CALCULATION (BASED ON REPORTED SPILL VOLUME)
PDC ENERGY INC.
RAINDANCE PAD
FREMONT PROJECT NO. C024-066

Compare Mass of Selenium (Se) Excavated to Selenium Released

| | |
|---|---------------|
| Selenium Removed During Excavation | 294.36 grams |
| Selenium Released Due to Spill | 0.00876 grams |
| Excess Selenium Removed During Excavation | 294.35 grams |

Therefore, approximately 33,602 times more Selenium were removed via excavation than were released

Calculation of Selenium Removed During Excavation

| Avg. Se Concentration in Excav. Soil Samples | Mass of Excavated Soil | Mass of Se in Exc. Soil |
|--|------------------------|-------------------------|
| 0.300 mg/kg | 981,211 kg | 294.36 grams |

Mass of excavated soil is: 832 cubic yards x 1.30 ton/CY = 1081.60 tons = 981,211 kg

Seventy-nine soil samples from the excavation were analyzed for Selenium; the average concentration was 0.300 mg/kg

Calculation of Selenium Released Due to Spill

| Produced H2O/Oil Release Volume (bbl) | Produced H2O/Oil Volume (L) | Se Concentration (ug/L) | Se Mass Released (mg) | Se Mass Released (g) |
|---------------------------------------|-----------------------------|-------------------------|--|----------------------|
| 72 | 11447.064 | 0.765 | (0.765 ug/L x 11447.06 L)/1000 8.76 | 0.00876 |

Net Volume of Produced Water Released: (72 bbl)(158.987 L/bbl) = 11447.06 L

1 kg/L is weight of water

Se concentration in produced fluid sample was 0.765 ug/L (see lab report)

TABLE 8
SUMMARY OF LEAD (Pb) CONCENTRATIONS IN EXCAVATED SOILS CALCULATION (BASED ON REPORTED SPILL VOLUME)
PDC ENERGY INC.
RAINDANCE PAD
FREMONT PROJECT NO. C024-066

Compare Mass of Lead (Pb) Excavated to Lead Released

| | |
|---------------------------------------|---------------|
| Lead Removed During Excavation | 11,382 grams |
| Lead Released Due to Spill | 0.01145 grams |
| Excess Lead Removed During Excavation | 11,382 grams |

Therefore, approximately 994,061 times more Lead were removed via excavation than were released

Calculation of Lead Removed During Excavation

| Avg. Pb Concentration in Excav. Soil Samples | Mass of Excavated Soil | Mass of Pb in Exc. Soil |
|--|------------------------|-------------------------|
| 11.60 mg/kg | 981,211 kg | 11,382 grams |

Mass of excavated soil is: 832 cubic yards x 1.30 ton/CY = 1081.60 tons = 981,211 kg

Seventy-nine soil samples from the excavation were analyzed for Lead; the average concentration was 11.60 mg/kg

Calculation of Lead Released Due to Spill

| Produced H2O/Oil Release Volume (bbl) | Produced H2O/Oil Volume (L) | Pb Concentration (ug/L) | Pb Mass Released (mg) | Pb Mass Released (g) |
|---------------------------------------|-----------------------------|-------------------------|--|----------------------|
| 72 | 11447.064 | 1.00 | (1.00 ug/L x 11447.06 L)/1000 11.45 | 0.01145 |

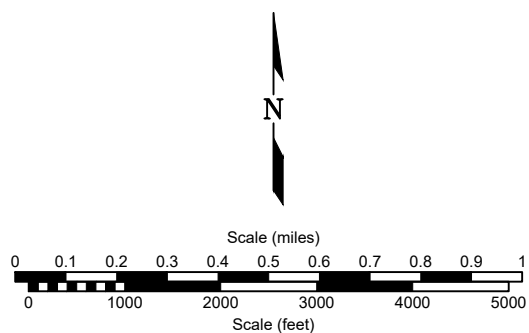
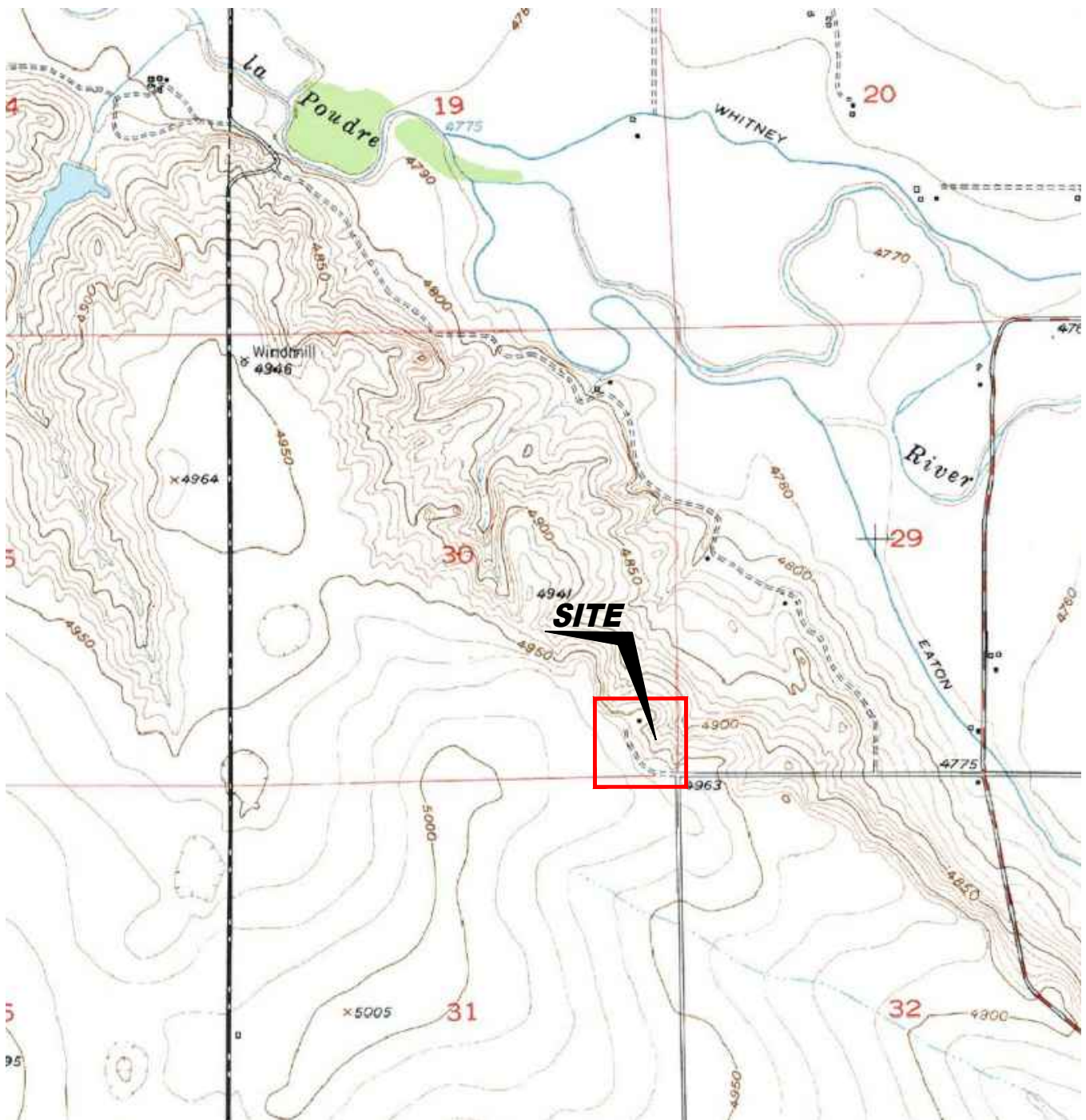
Net Volume of Produced Water Released: (72 bbl)(158.987 L/bbl) = 11447.06 L

1 kg/L is weight of water

Pb concentration in produced fluid sample was below the laboratory detection limit of 1.00 ug/L; therefore, use a concentration of 1.00 ug/L (see lab report)

TABLE 9
SUMMARY OF TOTAL RECOVERABLE METALS IN PRODUCED FLUID CHEMISTRY DATA
PDC ENERGY INC.
RAINDANCE PAD
FREMONT PROJECT NO. C024

| Sample ID | Sample Date | Arsenic (ug/L) | Barium (ug/L) | Cadmium (ug/L) | Copper (ug/L) | Lead (ug/L) | Nickel (ug/L) | Selenium (ug/L) | Silver (ug/L) | Zinc (ug/L) |
|-----------|-------------|----------------|---------------|----------------|---------------|-------------|---------------|-----------------|---------------|-------------|
| PW | 6/3/2024 | 0.998 | 13900 | <1.00 | 2.10 | <1.00 | 4.92 | 0.765 | <5.00 | 559 |



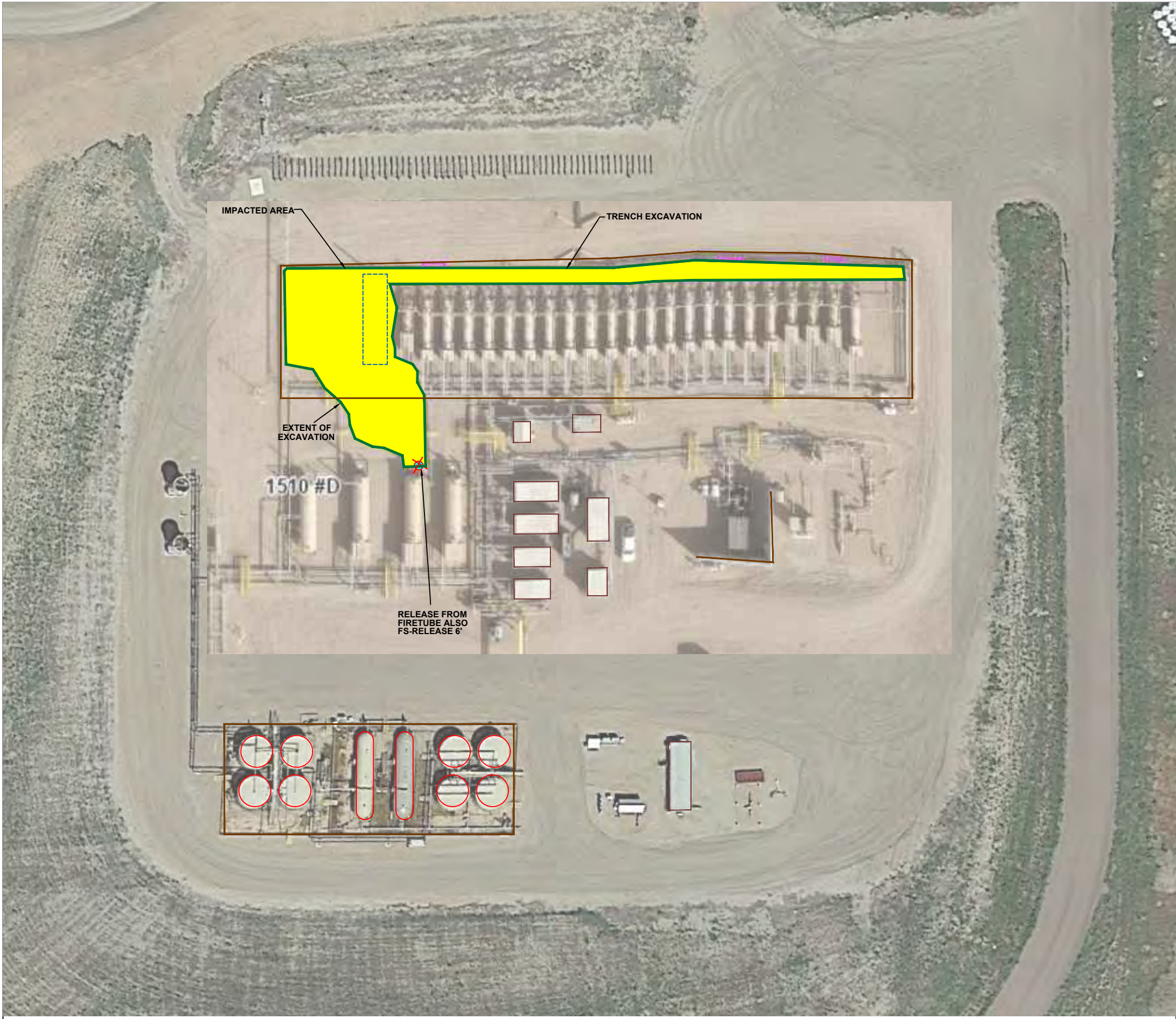
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

PDC ENERGY INC
Raindance FD Off-site Tank Pad
 SESE Sec. 30, T6N, R67W, 6th PM
 Weld County, Colorado
 40.451465°, -104.928371°

| | | |
|------------------------------|---------------|-----------------------------|
| Project # C024-066 | API # | Facility # 451100 |
| Date 6/24/24 | Remediation # | Filename 24066T |





LEGEND

POINT OF RELEASE

ABOVE GROUND STORAGE TANK

BUILDING

FORMER FACILITY

IMPACTED AREA

BUILDING

FORMER FACILITY

IMPACTED AREA

EXTENT OF EXCAVATION

FENCE LINE

CONTAINMENT BERM

CONTAINMENT WALL

NOT ANALYZED

| SAMPLE ID | DATE |
|-----------|------------|
| DEPTH | DEPTH (ft) |
| ACE | <0.00500 |
| Act | <0.00500 |
| BaA | <0.00500 |
| BaP | <0.00500 |
| BbP | <0.00500 |
| BbF | <0.00500 |
| Chr | <0.00500 |
| DBahAnt | <0.00500 |
| FLU | <0.00500 |
| FL | <0.00500 |
| 1123aPY | <0.00500 |
| PY | <0.00500 |
| 1MN | <0.00500 |
| 2MN | <0.00500 |

| SAMPLE ID | DATE |
|-----------|------------|
| DEPTH | DEPTH (ft) |
| As | <0.01 |
| BA | <0.01 |
| CD | <0.01 |
| CR(VI) | <0.05 |
| CU | <0.01 |
| PB | <0.05 |
| Ni | <0.05 |
| SE | <0.5 |
| AG | <0.05 |
| Z | <0.05 |

| SAMPLE ID | DATE |
|-----------|------------|
| DEPTH | DEPTH (ft) |
| B | <0.0020 |
| F | <0.0050 |
| E | <0.0050 |
| X | <0.010 |
| 124TMB | <0.0050 |
| 135TMB | <0.0050 |
| N | <0.0038 |
| G | <0.50 |
| D | <50 |
| O | <50 |

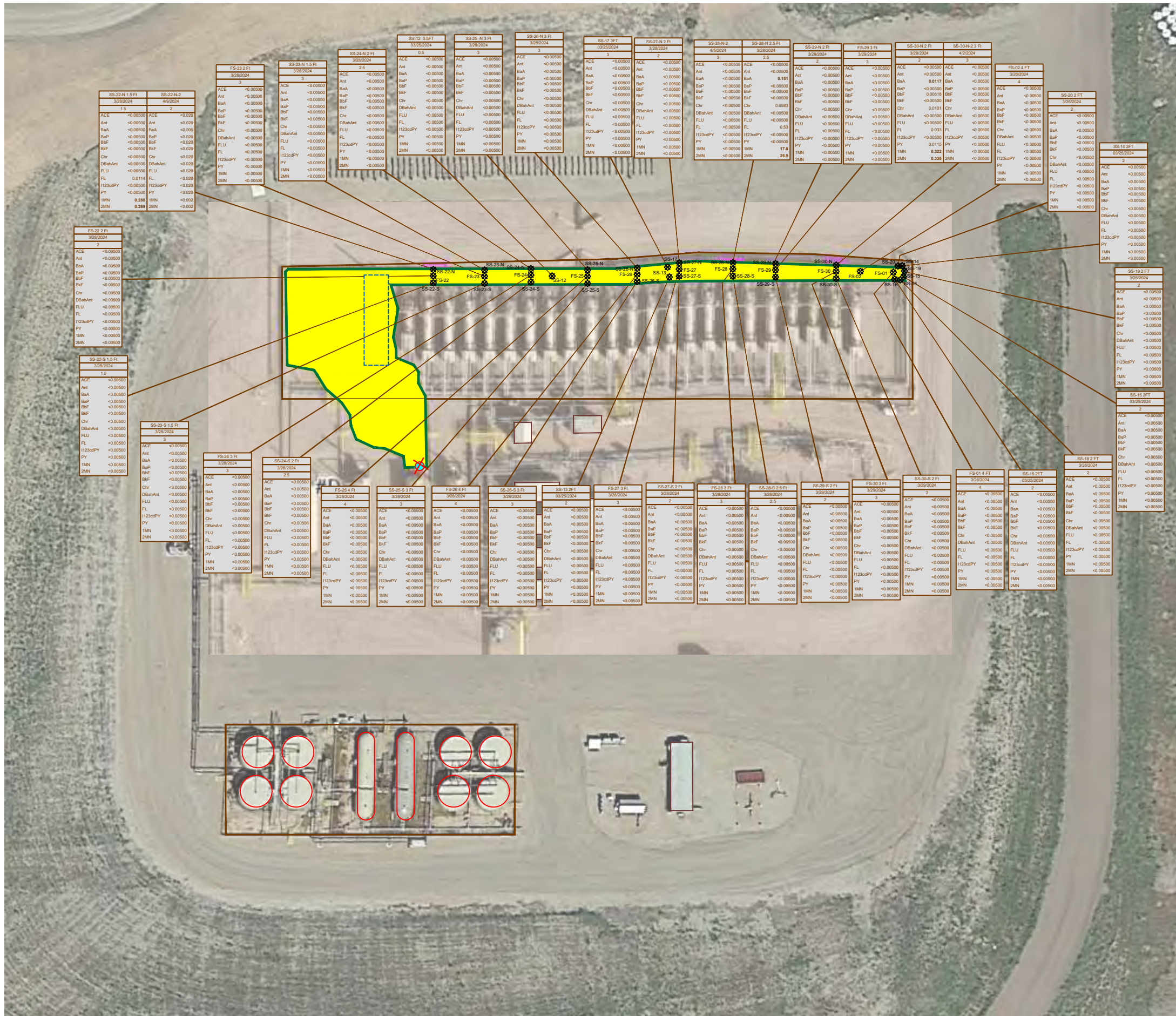
| SAMPLE ID | DATE |
|-----------|------------|
| DEPTH | DEPTH (ft) |
| pH | <500 |
| EC | 7.00 |
| SAR | <1 |
| B | <5 |

A north arrow pointing upwards, labeled 'N'. Below it is a scale bar with markings at 0, 10, 20, 30, 40, and 50 feet. The text 'Scale (feet)' is centered below the scale bar.

Figure 2
SITE MAP

PDC ENERGY INC
Raindance FD Off-site Tank Pad
SESE Sec. 30, T6N, R67W, 6th PM
Weld County, Colorado
40.451465°, -104.928371°

| | | | |
|--------------------------------|---------------|---|--|
| Project No. C024-066 | Facility # | Initial Spill/Release Report Doc# 451100 | |
| Date 6/24/24 | Remediation # | Filename 24066Q2 | |



LEGEND

POINT OF RELEASE
SOIL SAMPLE LOCATION
ABOVE GROUND STORAGE TANK

BUILDING
FORMER FACILITY
IMPACTED AREA

EXTENT OF EXCAVATION
FENCE LINE
CONTAINMENT BERM
CONTAINMENT WALL

| SAMPLE ID | DATE | DEPTH | SAMPLE ID | DATE | DEPTH |
|-----------|---------|---------|-----------|---------|---------|
| ACE | <0.0050 | <0.0050 | ACE | <0.0050 | <0.0050 |
| Ant | <0.0050 | <0.0050 | Ant | <0.0050 | <0.0050 |
| BaA | <0.0050 | <0.0050 | BaA | <0.0050 | <0.0050 |
| BaP | <0.0050 | <0.0050 | BaP | <0.0050 | <0.0050 |
| BbF | <0.0050 | <0.0050 | BbF | <0.0050 | <0.0050 |
| Chr | <0.0050 | <0.0050 | Chr | <0.0050 | <0.0050 |
| DBahAnt | <0.0050 | <0.0050 | DBahAnt | <0.0050 | <0.0050 |
| FLU | <0.0050 | <0.0050 | FLU | <0.0050 | <0.0050 |
| FL | <0.0050 | <0.0050 | FL | <0.0050 | <0.0050 |
| 1123cdPY | <0.0050 | <0.0050 | 1123cdPY | <0.0050 | <0.0050 |
| 1MN | <0.0050 | <0.0050 | 1MN | <0.0050 | <0.0050 |
| 2MN | <0.0050 | <0.0050 | 2MN | <0.0050 | <0.0050 |

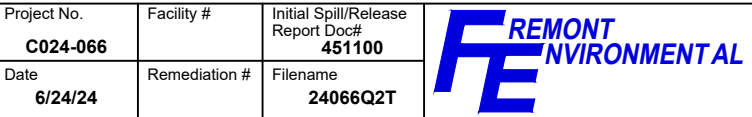
| SAMPLE ID | DATE | DEPTH | SAMPLE ID | DATE | DEPTH |
|-----------|---------|---------|-----------|---------|---------|
| ACE | <0.0050 | <0.0050 | ACE | <0.0050 | <0.0050 |
| Ant | <0.0050 | <0.0050 | Ant | <0.0050 | <0.0050 |
| BaA | <0.0050 | <0.0050 | BaA | <0.0050 | <0.0050 |
| BaP | <0.0050 | <0.0050 | BaP | <0.0050 | <0.0050 |
| BbF | <0.0050 | <0.0050 | BbF | <0.0050 | <0.0050 |
| Chr | <0.0050 | <0.0050 | Chr | <0.0050 | <0.0050 |
| DBahAnt | <0.0050 | <0.0050 | DBahAnt | <0.0050 | <0.0050 |
| FLU | <0.0050 | <0.0050 | FLU | <0.0050 | <0.0050 |
| FL | <0.0050 | <0.0050 | FL | <0.0050 | <0.0050 |
| 1123cdPY | <0.0050 | <0.0050 | 1123cdPY | <0.0050 | <0.0050 |
| 1MN | <0.0050 | <0.0050 | 1MN | <0.0050 | <0.0050 |
| 2MN | <0.0050 | <0.0050 | 2MN | <0.0050 | <0.0050 |

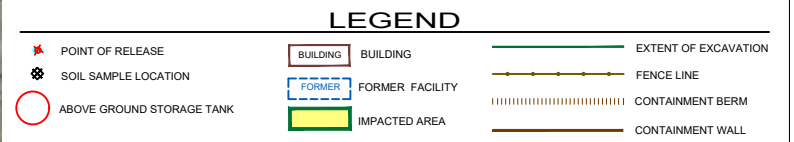
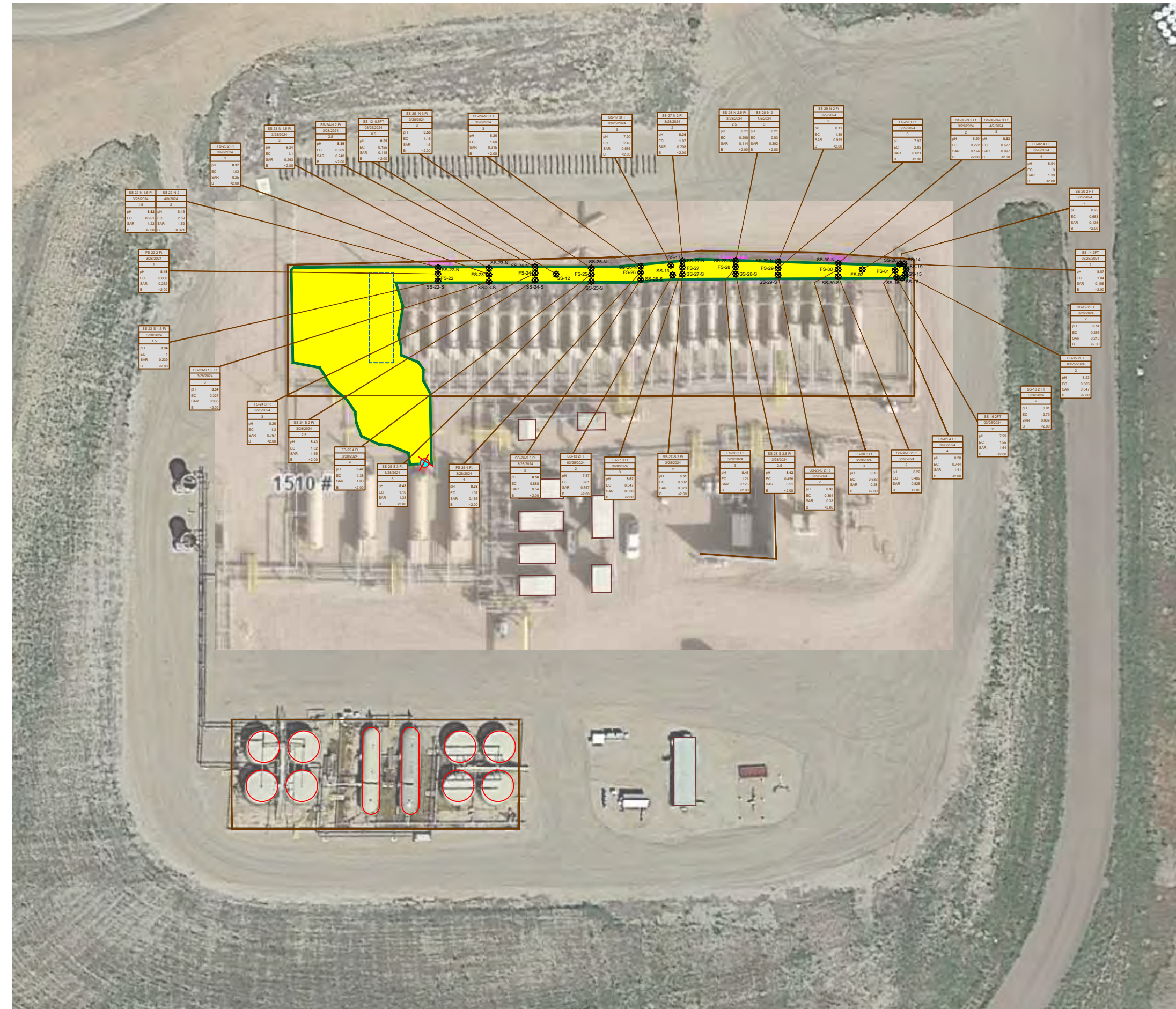
| SAMPLE ID | DATE | DEPTH | SAMPLE ID | DATE | DEPTH |
|-----------|---------|---------|-----------|---------|---------|
| ACE | <0.0050 | <0.0050 | ACE | <0.0050 | <0.0050 |
| Ant | <0.0050 | <0.0050 | Ant | <0.0050 | <0.0050 |
| BaA | <0.0050 | <0.0050 | BaA | <0.0050 | <0.0050 |
| BaP | <0.0050 | <0.0050 | BaP | <0.0050 | <0.0050 |
| BbF | <0.0050 | <0.0050 | BbF | <0.0050 | <0.0050 |
| Chr | <0.0050 | <0.0050 | Chr | <0.0050 | <0.0050 |
| DBahAnt | <0.0050 | <0.0050 | DBahAnt | <0.0050 | <0.0050 |
| FLU | <0.0050 | <0.0050 | FLU | <0.0050 | <0.0050 |
| FL | <0.0050 | <0.0050 | FL | <0.0050 | <0.0050 |
| 1123cdPY | <0.0050 | <0.0050 | 1123cdPY | <0.0050 | <0.0050 |
| 1MN | <0.0050 | <0.0050 | 1MN | <0.0050 | <0.0050 |
| 2MN | <0.0050 | <0.0050 | 2MN | <0.0050 | <0.0050 |

Figure 4
TRENCH PAH SOIL CHEMISTRY MAP
PDC ENERGY INC
Raindance FD Off-site Tank Pad
SESE Sec. 30, T6N, R67W, 6th PM
Weld County, Colorado
40.451465° , -104.928371°

0 10 20 30 40 50
Scale (feet)

| | | | |
|--------------------------------|------------------------------|---|--|
| Project No. C024-066 | Facility # 6/24/24 | Initial Spill/Release Report Doc# 451100 | REMONTE ENVIRONMENTAL |
| Date 6/24/24 | Remediation # | Filename 24066Q2T | |





NOT ANALYZED

| SAMPLE ID | DATE | DEPTH | SAMPLE ID | DATE | DEPTH |
|-----------|----------|-------|----------------------------------|------|-------|
| ACE | <0.00500 | | ACENAPHTHENE (mg/kg) | | |
| Act | <0.00500 | | ANTHRACENE (mg/kg) | | |
| BaA | <0.00500 | | BENZO (A) ANTHRACENE (mg/kg) | | |
| BaP | <0.00500 | | BENZO (A) PYRENE (mg/kg) | | |
| BbF | <0.00500 | | BENZO (B) FLUORANTHENE (mg/kg) | | |
| BbF | <0.00500 | | CHRYSENE (mg/kg) | | |
| Chr | <0.00500 | | DIBENZ (A,H) ANTHRACENE (mg/kg) | | |
| DBbAht | <0.00500 | | FLUORANTHENE (mg/kg) | | |
| FLU | <0.00500 | | FLUORENE (mg/kg) | | |
| FLU | <0.00500 | | INDENO (1,2,3-CD) PYRENE (mg/kg) | | |
| 11234pV | <0.00500 | | PYRENE (mg/kg) | | |
| PY | <0.00500 | | 1-METHYLNAPHTHALENE (mg/kg) | | |
| 1MN | <0.00500 | | 2-METHYLNAPHTHALENE (mg/kg) | | |
| 2MN | <0.00500 | | | | |

| SAMPLE ID | DATE | DEPTH | SAMPLE ID | DATE | DEPTH |
|-----------|---------|-------|--------------------------------|------|-------|
| B | <0.0020 | | BENZENE (mg/kg) | | |
| T | <0.0050 | | TOLUENE (mg/kg) | | |
| E | <0.0050 | | ETHYLBENZENE (mg/kg) | | |
| X | <0.010 | | TOTAL XYLENES (mg/kg) | | |
| 124TMB | <0.0050 | | 1,2,4-TRIMETHYLBENZENE (mg/kg) | | |
| 135TMB | <0.0050 | | 1,3,5-TRIMETHYLBENZENE (mg/kg) | | |
| N | <0.0038 | | NAPHTHALENE (mg/kg) | | |
| G | <0.50 | | TPH-GRO (mg/kg) | | |
| D | <50 | | TPH-DRO (mg/kg) | | |
| O | <50 | | TPH-ORO (mg/kg) | | |

| SAMPLE ID | DATE | DEPTH | SAMPLE ID | DATE | DEPTH |
|-----------|-------|-------|------------------|------|-------|
| As | <0.01 | | ARSENIC (mg/kg) | | |
| Ba | <0.01 | | BARIUM (mg/kg) | | |
| CD | <0.01 | | CADMIUM (mg/kg) | | |
| CR(VI) | <0.05 | | CHROMIUM (mg/kg) | | |
| CU | <0.01 | | COPPER (mg/kg) | | |
| PB | <0.05 | | LEAD (mg/kg) | | |
| Ni | <0.05 | | NICKEL (mg/kg) | | |
| SE | <0.5 | | SELENIUM (mg/kg) | | |
| AG | <0.05 | | SILVER (mg/kg) | | |
| Z | <0.05 | | ZINC (mg/kg) | | |

| SAMPLE ID | DATE | DEPTH | SAMPLE ID | DATE | DEPTH |
|-----------|------|-------|---------------|------|-------|
| pH | <500 | | pH (pH units) | | |
| EC | 7.00 | | EC (mmhos/cm) | | |
| SAR | <1 | | BORON (mg/L) | | |
| B | <5 | | | | |

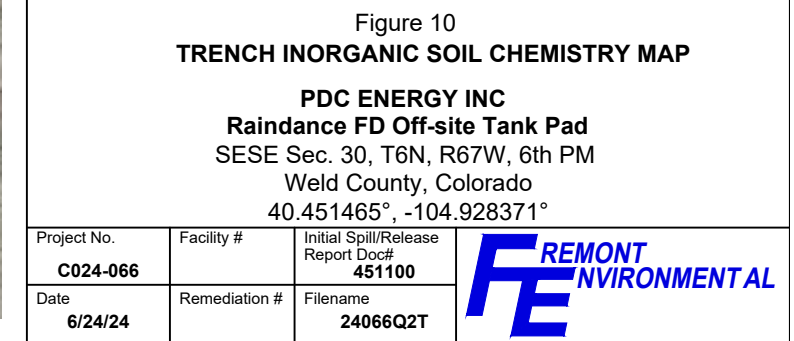


Photo Log



Description:

#1 - Raindance Bulk Separator where Firetube Failed

Photo Log



Description:

#2 - Looking South at Bulk Separator with excavation and soil samples shown

Photo Log



Description:

#3 - Looking east at excavation area requiring additional excavation denoted by pink paint

Photo Log



Description:

#4 - Looking North at excavation just north of bulk separator release location

Photo Log



Description:

#5 - Looking west at excavation beneath bulk separator and further west

Photo Log



Description:

#6 - Looking east at excavation; note Bulk Separator in the upper right corner of photo

Photo Log



Description:

#7 - Looking southeast at excavation; note Bulk Separator in center of photo in background

Photo Log



Description:

#8 - Looking south at excavation that was confined within secondary containment. This shows the NW corner of the containment.

Photo Log



Description:

#9 - Looking south at excavation in NW corner of containment.

Photo Log



Description:

#10 - Looking east at row of separators where produced fluids traveled.

Photo Log



Description:

#11 - Looking west at excavation along northern edge of containment

Photo Log



Description:

#12 - Looking west at additional excavation along north trench after removal of containment wall.