

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

| | | | | | | | | |
|------------------------------------|--|-------------------|--|----------------------------|--|------------------------|--|--------------------------------------|
| Additional attachments (optional): | | Pit Closure -- | | Tank Battery Closure -- | | Flowline Closure -- | | Partially Buried Vault Closure -- |
|------------------------------------|--|-------------------|--|----------------------------|--|------------------------|--|--------------------------------------|

| | | |
|---|----------------------|-------------------------------------|
| Site Name & COGCC Facility Number: Shelton #18-25XX | Date: 7-27-23 | Remediation Project #: 28440 |
|---|----------------------|-------------------------------------|

| | | |
|--|---------------------------|-------------------------------------|
| Associated Wells: 05-123-22169 | Age of Site: years | Number of Photos Attached: 1 |
|--|---------------------------|-------------------------------------|

| | |
|---|----------------------------------|
| Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.286647 / -104.615767 | Estimated Facility Size (acres): |
|---|----------------------------------|

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)

Good condition

| | |
|---------------------------|--|
| USCS Soil Type: SC | Estimated Depth to Groundwater: ~10-15' |
|---------------------------|--|

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None observed

Wellhead(s)

| Well API | 05-123-22169 | | | | | |
|--|----------------------------|-----------|-----------|-----------|----------|--|
| Age | years | | | | | |
| Condition of surface around wellhead | Good - No odor/no staining | | | | | |
| PID Readings | WH-N: 0.7 | WH-E: 0.2 | WH-S: 1.8 | WH-W: 1.2 | | |
| Condition of subsurface (staining present) | Good - No odor/no staining | | | | | |
| PID Readings | 1.8 | 0.3 | 1.2 | 0.6 | 2.7 | |
| Sample taken? Location/Sample ID# | WH-SS-01 | WH-SS-02 | WH-SS-03 | WH-SS-04 | WH-FS-01 | |
| Photo Number(s) | See photo log | | | | | |

Other observations regarding wellheads:

Well casing cut/capped following assessment

Summary

Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

| | |
|--|---|
| Total number of samples field screened: 9 | Total number of samples collected: 9 |
|--|---|

| | |
|---------------------------------|---|
| Highest PID Reading: 2.7 | Total number of samples submitted to lab for analysis: 1 |
|---------------------------------|---|

If more than 10 cubic yards of impacted soil were observed:

| | |
|------------------|-------------------------|
| Vertical extent: | Estimated spill volume: |
| N/A | |
| Lateral extent: | Volume of soil removed: |

Is additional investigation required?

Was groundwater encountered during the investigation? No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

| | |
|--------------------------------|--|
| Measured depth to groundwater: | Was remedial groundwater removal conducted? Yes No |
|--------------------------------|--|

| | |
|-----------------------------------|-------------------------------|
| Date Groundwater was encountered: | Commencement date of removal: |
|-----------------------------------|-------------------------------|

| | |
|--|--|
| Sheen on groundwater? Yes No | Volume of groundwater removed prior to sampling: |
|--|--|

| | |
|---|--|
| Free product observed? Yes No | Volume of groundwater removed post sampling: |
|---|--|

| | |
|------------------------------------|--------------------------------------|
| Total number of samples collected: | Total Volume of groundwater removed: |
|------------------------------------|--------------------------------------|

| | |
|--|--|
| Total number of samples submitted to lab for analysis: | |
|--|--|

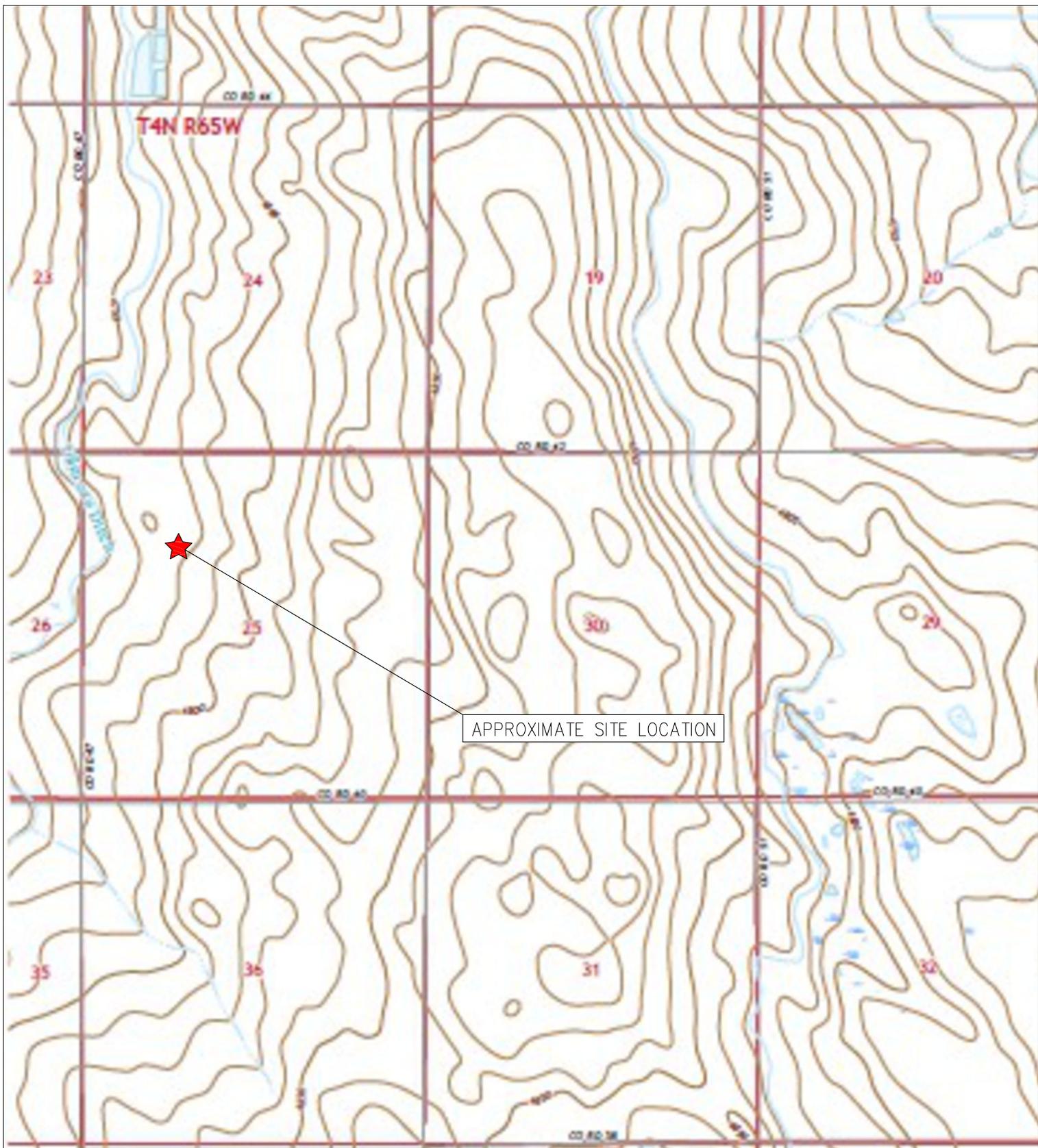


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 SHELTON #18-25XX
 CLOSURE ASSESSMENT
 40.286647 / -104.615767
 CNW¼ SEC.25 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-22196
 REMEDIATION # 28440



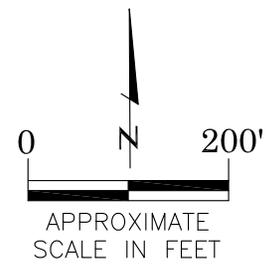
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LEGEND

- FORMER SHELTON #18-25XX WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 SHELTON #18-25XX
 CLOSURE ASSESSMENT
 40.286647 / -104.615767
 CNW¼ SEC.25 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-22196
 REMEDIATION # 28440

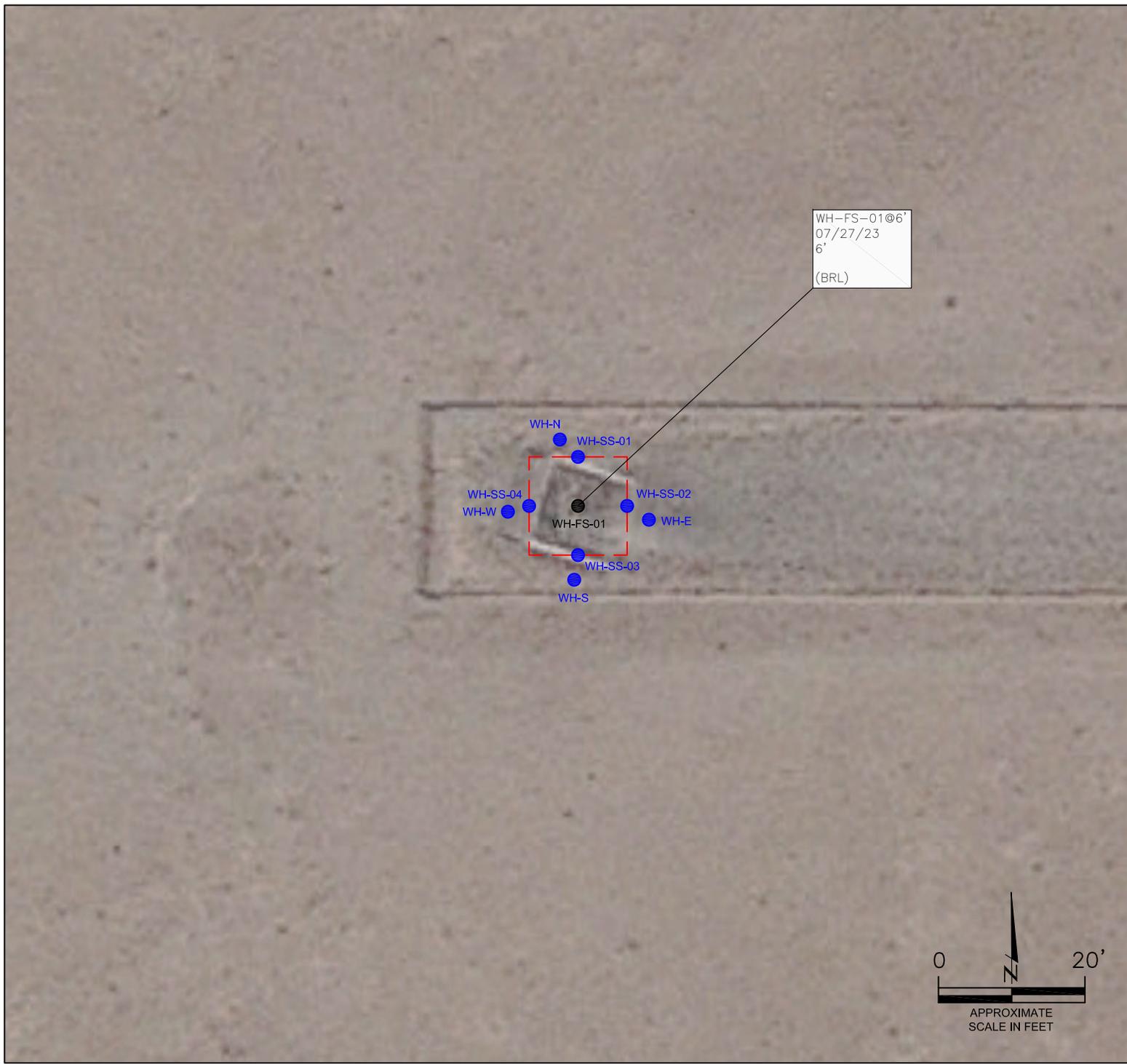
FIGURE NO.
2

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LEGEND

- - - WELLHEAD ASSESSMENT BOUNDARIES
- **SS-02** APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- **SS-02** APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

| | |
|---|-----------------------------------|
| SAMPLE LOCATION | |
| DATE | |
| DEPTH (FEET) | |
| B | = BENZENE (mg/kg) |
| T | = TOLUENE (mg/kg) |
| E | = ETHYLBENZENE (mg/kg) |
| X | = TOTAL XYLENES (mg/kg) |
| N | = NAPHTHALENE (mg/kg) |
| G | = TPH-GRO (mg/kg) |
| D | = TPH-DRO (mg/kg) |
| R | = TPH-RRO (mg/kg) |
| 1,2,4-TMB | = 1,2,4 TRIMETHYLBENZENE (mg/kg) |
| 1,3,5-TMB | = 1,3,5 TRIMETHYLBENZENE (mg/kg) |
| Brn | = BORON (mg/L) |
| EC | = SPECIFIC CONDUCTANCE (mmhos/cm) |
| SAR | = SODIUM ADSORPTION RATIO |
| pH | = pH (pH UNITS) |
| POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg) | |

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

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

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

NOTES:
 VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
 SHELTON #18-25XX
 CLOSURE ASSESSMENT
 40.286647 / -104.615767
 CNW¼ SEC.25 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-22196
 REMEDIATION # 28440

FIGURE NO.
 3

DRAWN BY:
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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
SHELTON #18-25XX
CLOSURE ASSESSMENT
40.286647 / -104.615767
CNW¼ SEC.25 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-22169
REMEDIATION # 28440

| Sample Location (Latitude/Longitude) | Date | Approximate Depth (feet) | PID Reading (ppm-v) | Lab Submission (Y/N) |
|--|----------|--------------------------------|------------------------|-------------------------|
| WH-FS-01 @ 6' (40.286643 / -104.615769) | 07/27/23 | 6 | 2.7 | Y |
| WH-SS-01 @ 5' (40.286663 / -104.615767) | 07/27/23 | 5 | 1.8 | N |
| WH-SS-02 @ 5' (40.286644 / -104.615744) | 07/27/23 | 5 | 0.3 | N |
| WH-SS-03 @ 5' (40.286625 / -104.615768) | 07/27/23 | 5 | 1.2 | N |
| WH-SS-04 @ 5' (40.286645 / -104.615792) | 07/27/23 | 5 | 0.6 | N |
| WH-N @ 0.5' (40.286669 / -104.615777) | 07/27/23 | 0.5 | 0.7 | N |
| WH-E @ 0.5' (40.286640 / -104.615733) | 07/27/23 | 0.5 | 0.2 | N |
| WH-S @ 0.5' (40.286615 / -104.615771) | 07/27/23 | 0.5 | 1.8 | N |
| WH-W @ 0.5' (40.286642 / -104.615803) | 07/27/23 | 0.5 | 1.2 | N |
| (Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector | | | | |



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
SHELTON #18-25XX
CLOSURE ASSESSMENT
40.286647 / -104.615767
CNW¼ SEC.25 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-22169
REMEDATION # 28440

| Sample Location | | WH-SS-01 @ 6' | | |
|--|---------------|---------------------------|---------------------------|----------|
| (Latitude / Longitude) | | (40.286643 / -104.615769) | | |
| Sample Date | | 7/27/2023 | | |
| Sample Depth | | 6' | | |
| PID Reading (ppm-v) | | 2.7 | | |
| Regulatory Limits | | | | |
| Chemical of Concern | Units | ECMC Table 915-1 RSSLs | ECMC Table 915-1 GSSLs | |
| VOLATILE ORGANIC COMPOUNDS | | | | |
| Benzene | mg/kg | 1.2 | 0.0026 | <0.00200 |
| Toluene | mg/kg | 490 | 0.69 | 0.00566 |
| Ethylbenzene | mg/kg | 5.8 | 0.78 | 0.0183 |
| Total Xylenes | mg/kg | 58 | 9.9 | 0.0325 |
| Naphthalene | mg/kg | 2 | 0.0038 | <0.00380 |
| 1,2,4-Trimethylbenzene | mg/kg | 30 | 0.0081 | <0.00200 |
| 1,3,5-Trimethylbenzene | mg/kg | 27 | 0.0087 | 0.00232 |
| TOTAL PETROLEUM HYDROCARBONS | | | | |
| TPH-GRO | mg/kg | 500 | -- | <0.200 |
| TPH-DRO | mg/kg | 500 | -- | <25.0 |
| TPH-RRO | mg/kg | 500 | -- | <100 |
| POLYCYCLIC AROMATIC HYDROCARBONS | | | | |
| 1-Methyl-naphthalene | mg/kg | 18 | 0.006 | <0.00201 |
| 2-Methyl-naphthalene | mg/kg | 24 | 0.019 | <0.00201 |
| Acenaphthene | mg/kg | 360 | 0.55 | <0.00067 |
| Anthracene | mg/kg | 1800 | 5.8 | <0.00067 |
| Benzo(a)-anthracene | mg/kg | 1.1 | 0.011 | <0.00067 |
| Benzo(a)-pyrene | mg/kg | 0.11 | 0.24 | <0.00067 |
| Benzo(b)-fluoranthene | mg/kg | 1.1 | 0.3 | <0.00067 |
| Benzo(k)-fluoranthene | mg/kg | 11 | 2.9 | <0.00067 |
| Chrysene | mg/kg | 110 | 9 | <0.00067 |
| Dibenzo(a,h)-anthracene | mg/kg | 0.11 | 0.096 | <0.00067 |
| Fluoranthene | mg/kg | 240 | 8.9 | <0.00067 |
| Fluorene | mg/kg | 240 | 0.54 | <0.00067 |
| Indeno(1,2,3-cd)-pyrene | mg/kg | 1.1 | 0.98 | 0.00134 |
| Pyrene | mg/kg | 180 | 1.3 | <0.00067 |
| SOIL SUITABILITY (Inorganics) | | | | |
| Boron | mg/L | 2 | -- | 1.08 |
| pH | standard unit | 6-8.3 | -- | 8.07 |
| Sodium Adsorption Ratio (SAR) | -- | <6 | -- | 0.188 |
| Specific Conductance (EC) | mmhos/cm | <4 | -- | 1.77 |
| ECMC = Energy & Carbon Management 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 RSSLs = Residential Soil Screening Levels GSSLs = Protection of Groundwater Soil Screening Levels TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits. | | | | |





ATTACHMENT A

Photo Log

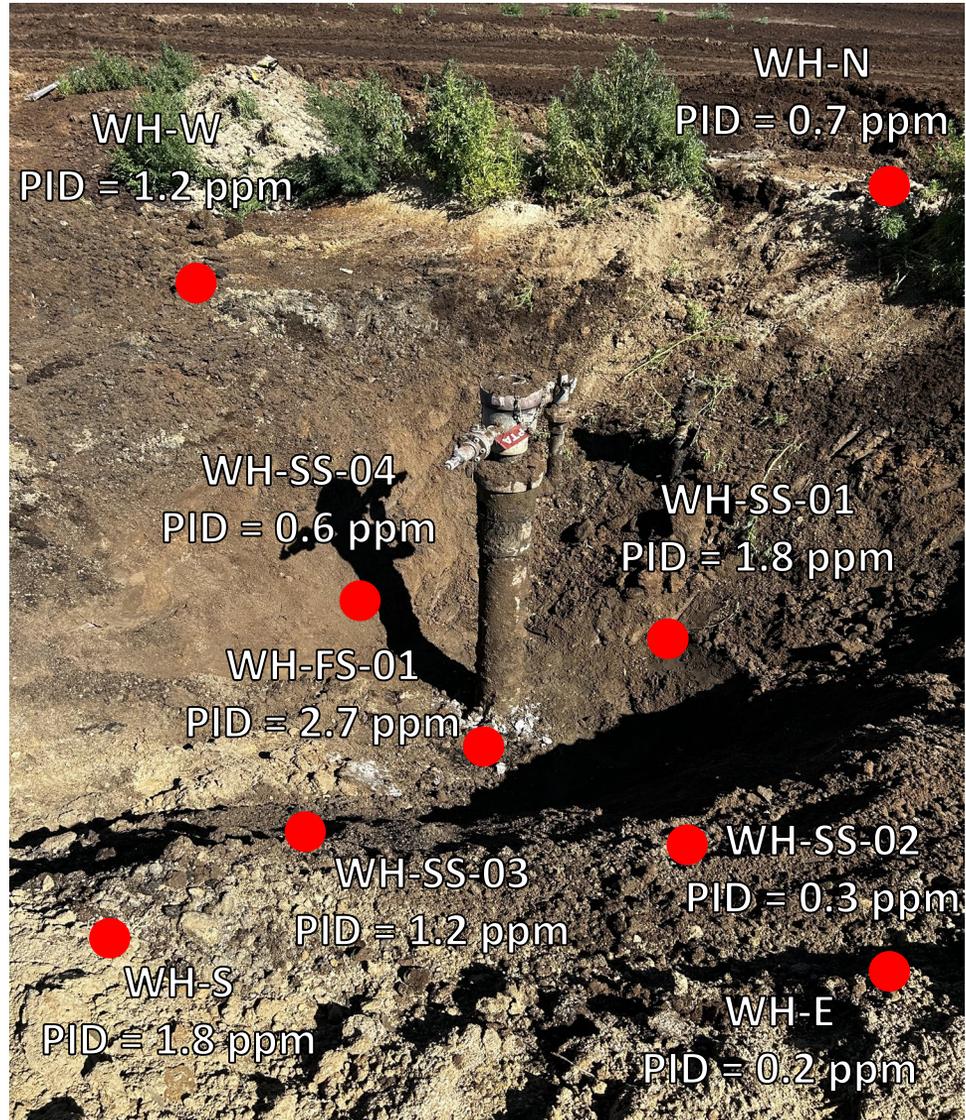
Shelton #18-25XX
API # 05-123-22169
Remediation # 28440

Closure Assessment

July 2023



Wellhead Excavation – 07/27/23



Looking northwest

No petroleum hydrocarbon staining or odor observed