District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

| Incident ID | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party: SIMCOE, LLC | | | OGRID: 329736 | | | |
|---|--|-----------------------------------|---|---------------------|--------------|--|
| Contact Name: Sabre Beebe | | | Contact Telephone (970) 852-5172 | | | |
| Contact email: sabre.beebe@ikavenergy.com | | | Incident # | t (assigned by OCD) | | |
| Contact mail 81301 | ing address: | 1199 Main Ste., S | Suite 101, Durang | go, CO | | |
| | | | Location | of R | delease S | ource |
| Latitude 36.8 | Latitude 36.872285 Longitude -107.711327 | | | | | |
| Site Name: K | ernaghan B | 007 | | | Site Type: | Active Well |
| Date Release | Discovered: | 01/31/2022 12:23 | 3 PM | | API# (if ap) | plicable) 30-045-27350 |
| Unit Letter | Section | Township | Range | | Cou | nty |
| Н | 30 | 31N | 08W | San | Juan Count | ty |
| Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) | | | | | | |
| Crude Oil | [| Volume Release | ed (bbls) | | | Volume Recovered (bbls) |
| Noduced Produced | Water | Volume Release | ed (bbls) Approx. | 35 bbl | | Volume Recovered (bbls) Approx. 20 bbl |
| | | Is the concentrate produced water | tion of dissolved >10.000 mg/l? | chlorid | e in the | ☐ Yes ☐ No |
| Condensa | ite | Volume Release | | | | Volume Recovered (bbls) |
| Natural G | as | Volume Release | ed (Mcf) | | | Volume Recovered (Mcf) |
| Other (describe) Volume/Weight Released (provide units | |) | Volume/Weight Recovered (provide units) | | | |
| Cause of Release: Gauge on wellhead froze and broke. Produced water released through the gauge and onto the ground. Release remained entirely on well pad. Contract water truck dispatched to location and recovered all fluids. Investigation of release determined that initial volume estimate was inaccurate. Soil samples collected by contract vendor. Soil sample results are attached below. Further horizontal delineation performed with field analysis which is attached. Request for Variance is attached below. | | | | | | |
| | | | | | | |

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| District RP | |
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| Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No | If YES, for what reason(s) does the respondence of release is greater than 25 bbls. | sible party consider this a major release? | | | |
|---|--|---|--|--|--|
| Notice provided by calling | g District III main office (505) 334-6178 an | om? When and by what means (phone, email, etc)? d speaking with John Garcia 01/31/2022 @ 2:53 PM. Return call in known about release as reported by Field Personnel at that time. | | | |
| The responsible p | Initial ${f Re}$ | esponse unless they could create a safety hazard that would result in injury | | | |
| ☑ The source of the release has been stopped. ☑ The impacted area has been secured to protect human health and the environment. ☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☑ All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: Soil sampling performed by Contract Vendor and SIMCOE, LLC is awaiting sample results. Sampling map attached. | | | | | |
| has begun, please attach a | a narrative of actions to date. If remedial | emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation. | | | |
| regulations all operators are public health or the environm failed to adequately investigated. | required to report and/or file certain release notified. The acceptance of a C-141 report by the Oate and remediate contamination that pose a threatening that pose as the contamination t | pest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws | | | |
| Printed Name: _Sabre Bed | ebe | Title: _Environmental Coordinator | | | |
| Signature: | | Date: _08/30/2022_ | | | |
| email: sabre.beebe@ikave | energy.com | Telephone:970-852-5172 | | | |
| OCD Only | | | | | |
| Received by: | | Date: | | | |

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|----------------|--------------|
| Incident ID | |
| District RP | |
| Facility ID | |
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| What is the shallowest depth to groundwater beneath the area affected by the release? | >100 (ft bgs) | | | |
|--|---------------|--|--|--|
| Did this release impact groundwater or surface water? | ☐ Yes ⊠ No | | | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ⊠ No | | | |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ⊠ No | | | |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ⊠ No | | | |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ⊠ No | | | |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ⊠ No | | | |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ⊠ No | | | |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ⊠ No | | | |
| Are the lateral extents of the release overlying a subsurface mine? | | | | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | | | | |
| Are the lateral extents of the release within a 100-year floodplain? | | | | |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes ⊠ No | | | |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | | | | |
| Characterization Report Checklist: Each of the following items must be included in the report. | | | | |
| \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. \infty Field data | | | | |
| Data table of soil contaminant concentration data | | | | |
| Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release | | | | |
| Boring or excavation logs | | | | |
| Photographs including date and GIS information | | | | |
| ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ | | | | |
| , | | | | |

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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| Application ID | |

| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | |
|--|------------|--|
| Printed Name: | | |
| Signature: | Date: | |
| email: | Telephone: | |
| | | |
| OCD Only | | |
| Received by: | Date: | |
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Remediation Plan

| Remediation Plan Checklist: Each of the following items must be | e included in the plan. |
|---|--|
| ☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation poin ☐ Estimated volume of material to be remediated ☐ Closure criteria is to Table 1 specifications subject to 19.15.29. ☐ Proposed schedule for remediation (note if remediation plan times) | ts 12(C)(4) NMAC |
| Deferral Requests Only: Each of the following items must be con- | usum ad as mout of ann negreest for defennal of nemediation |
| Deterral Requests Only: Each of the following tiems must be con | njirmea as part of any request for deferral of remediation. |
| Contamination must be in areas immediately under or around p deconstruction. | roduction equipment where remediation could cause a major facility |
| Extents of contamination must be fully delineated. | |
| Contamination does not cause an imminent risk to human healt | h, the environment, or groundwater. |
| | |
| | e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of |
| Printed Name: | Title: |
| Signature: | Date: |
| email: | Telephone: |
| | |
| OCD Only | |
| Received by: | Date: |
| ☐ Approved ☐ Approved with Attached Conditions of | Approval |
| Signature: | Date: |

| Received by OCD: | 8/30/2022 8:35:50 AM |
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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

| Closure Report Attack | ment Checklist: Each of the f | following items must be incl | uded in the closure report. |
|---|--|--|---|
| A scaled site and sa | mpling diagram as described in | 19.15.29.11 NMAC | |
| | remediated site prior to backfill prior to liner inspection) | or photos of the liner integr | ity if applicable (Note: appropriate OCD District office |
| ✓ Laboratory analyses | s of final sampling (Note: approp | oriate ODC District office m | ust be notified 2 days prior to final sampling) |
| ☐ Description of reme | ediation activities | | |
| | | | |
| and regulations all operat may endanger public hea should their operations he human health or the envi- compliance with any other restore, reclaim, and re-v | ors are required to report and/or lth or the environment. The acce ave failed to adequately investig ronment. In addition, OCD acce er federal, state, or local laws and egetate the impacted surface are | file certain release notificative ptance of a C-141 report by atteand remediate contaminate ptance of a C-141 report dood/or regulations. The responsa to the conditions that exists | y knowledge and understand that pursuant to OCD rules ons and perform corrective actions for releases which the OCD does not relieve the operator of liability ation that pose a threat to groundwater, surface water, as not relieve the operator of responsibility for asible party acknowledges they must substantially ed prior to the release or their final land use in ation and re-vegetation are complete. |
| Printed Name: Sabre I | Beebe | Title: Enviro | nmental Coordinator |
| Signature: <u>Sabre</u> | Beebe | _{Date:} August | 30, 2022 |
| email: sabre.beebe@ | ikavenergy.com | Telephone: 970 | -852-5172 |
| | | | |
| OCD Only | | | |
| Received by: | | Date: | |
| remediate contamination | | er, surface water, human heal | their operations have failed to adequately investigate and th, or the environment nor does not relieve the responsible |
| Closure Approved by: | Nelson Velez | Date: _ | 09/06/2022 |
| Printed Name: | Nelson Velez | Title: _ | Environmental Specialist - Adv |

Kernaghan B 007 30-045-27350 Variance request per 19.15.29.14

HISTORY:

On February 11, 2022, on the Kernaghan B 007 well during location checks the technician discovered a gauge at the well head had frozen and broken releasing produced water onto the well pad. Initial estimate by technician was 35 bbls. Technician immediately shut in the well and stopped the release. A water truck was dispatched to location to recover all standing fluids. The release remained on the compacted surface of the well pad. The release was not within containment.

Site investigation calculation:

Based on the total square footage of the wet area, a saturation depth of approximately 4" (0.33 feet), and the liquid capacity of clay, we estimate that the total release was approximately 25.4 bbls.

The equation is below:

Horizontal Square Footage x Vertical Depth in Feet x Liquid Capacity of Soil Factor = Volume Released (3,230 sq ft) x (0.33 ft (depth)) x (1.0 gallons/cubic ft (liquid capacity of clay)) = 1,065.9 gallons/42 (gallons/bbl) = 25.4 hbls

Total amount calculated was 25.4 bbls.

VARIANCE REQUEST:

Simcoe, LLC is requesting a variance on remediation on this location for the following reasons:

- 1. Equipment safety and protection
 - a. Wellhead had a gas driven pumpjack in service that impedes excavation around the wellhead without a high risk of damaging the wellhead and production lines to auxiliary equipment.
 - b. Cathodic electrical lines are run within the release are a are at risk of damage/destruction during any excavation.
 - c. Automation cables within the release area are at risk of damage/destruction during excavation.
 - d. Fuel gas line for pumpjack is at risk of damage/destruction during excavation.
- 2. Public health, safety and environment risk is minimal if not non-existent as there are now domestic inhabitants within over one mile of the location.
- 3. Ground water has been established at greater than 100 feet of location (see summary below and attached BGT siting documentation)
- 4. The Chloride, TPH and BTEX levels of sample results (attached) are below the Table 1 closure standards. Chloride levels of 11 out of 13 exceed the reclamation standard; however, the entire impacted area resides within the area required for normal operations and will not be reclaimed until such time that the well is plugged and abandoned.
- 5. Any additional vertical delineation will be performed at such time that the well is plugged, all equipment decommissioned, and reclamation is performed.
- 6. Location has a cut and fill which during final reclamation will require removal of all imported materials estimated at six inches or greater in depth. This material will be exported and disposed of properly. Entire original disturbance is required to be returned to near natural contour to the extent that is practicable. Revegetation of entire disturbance is required at final reclamation prior to release.
- 7. During final reclamation activities any evidence of impacts are investigated by sampling and addressed in accordance with all regulations. Therefore, Simcoe, LLC is confident that the impacts will be most effectively addressed at such time that the well is plugged, and the location reclaimed.
- 8. Safety concerns listed in item 1 are non-existent upon completion of the plugging and abandonment of the wellbore.
- 9. Reclamation requirements do not apply, as the area impacted by the release is currently and will remain within the area of the well pad to be utilized for ongoing oil and gas operations of the well.
- 10. During release investigation the surface soils of the well pad were characterized as clay soils which during construction of the pad were compacted for additional stabilization for production equipment stability.

Simcoe, LLC is requesting variance request to remediation/reclamation requirements as stated below: Extent delineation to four feet.

- 1. During investigation of release and initial sampling vertical depth was visually determined to be at four inches determined by clay soil saturation. (Refer to Site investigation calculation above)
- 2. During investigation of release and initial sampling horizontal extent was visually determined by visual of moist and wet soil extent.
- Horizontal extent was re-calculated by third party contractor performing field screening outside the initial mapped spill area. Those results are attached below. All field screened samples resulted being below the standard.

Depth to ground water determination greater than 100 feet utilizing BP America C-144 BGT siting documentation compiled and submitted to NMOCD 6/14/2010.

- 1. Ground water determination is greater than 100 feet.
- 2. Location is not within 300 feet of a continuously flowing watercourse
- 3. Location is not within 200 feet of a significant watercourse, lakebed, sinkhole, or playa lake
- 4. Location is not within 1000 feet of a permanent residence, school, hospital, institution, or church
- 5. Location is not within 500 horizontal feet of a private, domestic freshwater well or spring or 1000 horizontal feet of other freshwater well or spring
- 6. Location is not within any incorporated municipal boundaries or defined municipal freshwater well field
- 7. Location is not within 500 feet of a wetland
- 8. Location is not within the are of a overlying subsurface mine
- 9. Location is not within an unstable area
- 10. Location is not within a 100-year floodplain

Siting Criteria Documentation

SITING AND HYDRO-GEOLOGICAL REPORT FOR KERNAGHAN B 007

Siting Criteria 19.15.17.10 NMAC

Depth to groundwater at the site is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), and depth to groundwater data obtained from water wells permitted by the New Mexico State Engineer's Office (OSE, Figure 1). Local topography and proximity to adjacent water features are also considered. A topographic map of the site is provided as Figure 2 and demonstrates that the below grade tank (BGT) is not within 300 feet of any continuously flowing watercourse or within 200 feet of any other significant watercourse, lakebed, sinkhole or playa lake as measured from the ordinary high water mark. Figure 3 demonstrates that the BGT is not within 300 feet of a permanent residence, school, hospital, institution or church. Figure 4 demonstrates, based on a search of the OSE database and USGS topographic maps, that there is a freshwater well within 1000 feet of the BGT; however, records indicate that the drilling permit was withdrawn, and the well was never installed. Figure 5 demonstrates that the BGT is not within a municipal boundary or a defined municipal freshwater well field. Figure 6 demonstrates that the BGT is not within 500 feet of a wetland. Figure 7 demonstrates that the BGT is not in an area overlying a subsurface mine. The BGT is not located in an unstable area. Figure 8 demonstrates that the BGT is not within the mapped FEMA 100year floodplain.

The BGT subject to the attached application for a permit under 19.15.17 NMAC (New Mexico Administrative Code) was in existence prior to promulgation of 19.15.17 NMAC. A review of the best available data and a visual inspection of the siting criteria of 19.15.17 NMAC specific to the BGT in question demonstrate that the BGT does not appear to pose an imminent threat to public health and the environment.

Local Geology and Hydrology

This particular site is located on a mesa top close to the main channel of Pump Canyon, but hundreds of feet higher in elevation than the surface of the canyon. Regional topography of Pump Canyon is composed of mesas dissected by deep, narrow canyons and arroyos. The more resistant cliff-forming sandstones of the San Jose Formation cap the interbedded siltstones, shales and sandstones of the Nacimiento Formation. Accumulations of talus and eroded sands at the base of canyon walls form steep to gentle slopes that transition into flat-bottomed arroyos within the canyons. Deposits of Quaternary alluvial and eolian sands occur prominently near the surface of Pump Canyon, especially near streams and washes.

Regional Geology and Hydrology

The San Juan Basin is situated in the Navajo section of the Colorado Plateau and is characterized by broad open valleys, mesas, buttes and hogbacks. Away from major valleys and canyons topographic relief is generally low. Native vegetation is sparse and shrubby. Drainage is mainly by the San Juan River, the only permanent stream in the Navajo Section of the Colorado Plateau. The San Juan River is a tributary of the Colorado River. Major tributaries include the Animas, Chaco and La Plata Rivers. Flow of the San Juan River across the basin is regulated by the

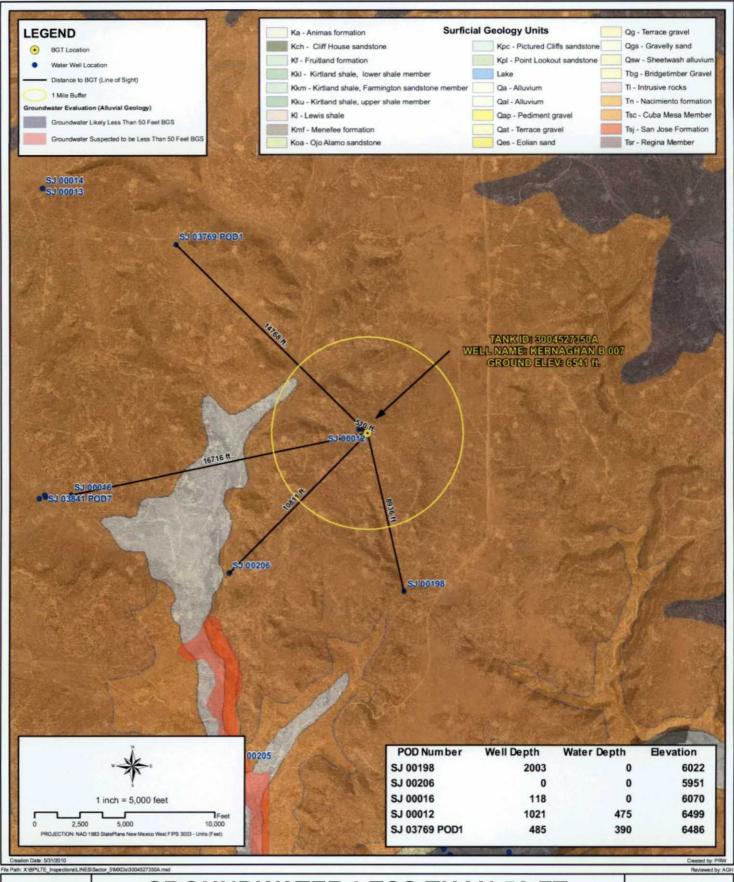
Navajo Dam, located about 30 miles northeast of Farmington, New Mexico. The climate is arid to semiarid with an average annual precipitation of 8 to 10 inches. Soils within the basin consist of weathered parent rock derived from predominantly physical means mostly from eolian depositional systems with fluvial having a lesser impact.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits, serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). The San Jose Formation of Eocene age occurs in both New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico border and overlies the Animas Formation in the general area north of the State Line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and shale. Thickness of the San Jose Formation increases from west to east. Groundwater is associated with alluvial and fluvial sandstone aquifers. The occurrence of groundwater is mainly controlled by distribution of sandstone in the formation. The reported or measured discharge from numerous water wells completed in the formation range from 0.15 to 61 gallons per minute (gpm) and with a median of 5 gpm. Most of the wells provide water for livestock and domestic purposes. The formation is suitable for recharge from precipitation due to overlying soils being sandy, highly permeable and absorbent. Low annual precipitation, relatively high transpiration and evaporation rates and deep dissection of the formation by the San Juan River and its main tributaries all tend to reduce the effective recharge to the formation. Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation of Paleocene age are between 0 and 1000 feet deep in the majority of the basin as well (Stone et al., 1983).

References

Circular 154—Guidebook to coal geology of northwest New Mexico By E. C. Beaumont, J. W. Shomaker, W. J. Stone, and others, 1976

Stone, et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico, Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p



bp

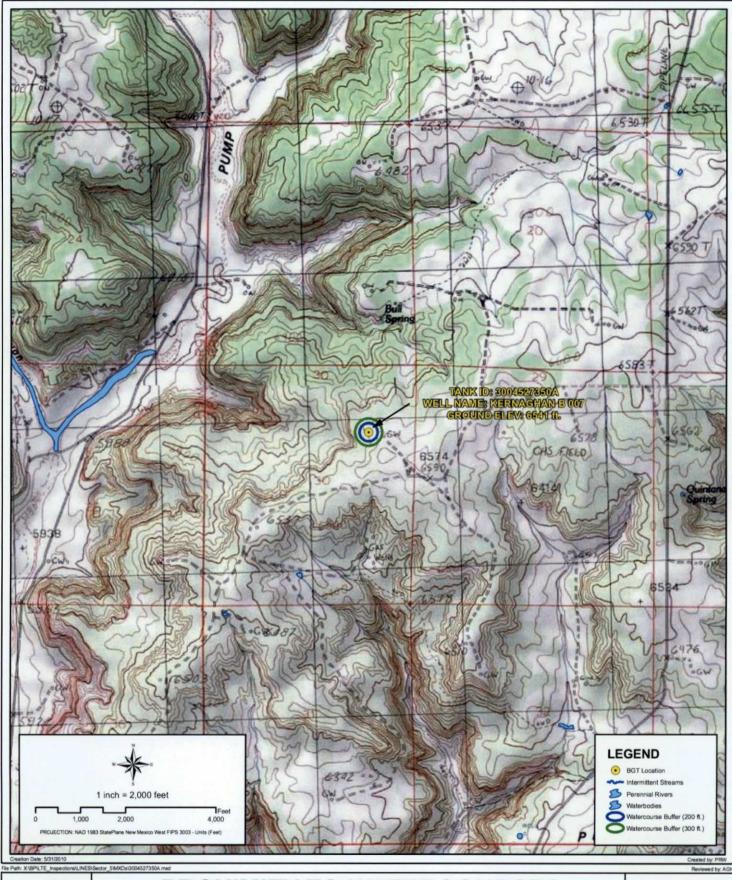
GROUNDWATER LESS THAN 50 FT.

WELL NAME: KERNAGHAN B 007

API NUMBER: 3004527350 TANK ID: 3004527350A SECTION 30, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE

1





PROXIMITY TO WATERCOURSES

WELL NAME: KERNAGHAN B 007

API NUMBER: 3004527350 TANK ID: 3004527350A SECTION 30, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE 2





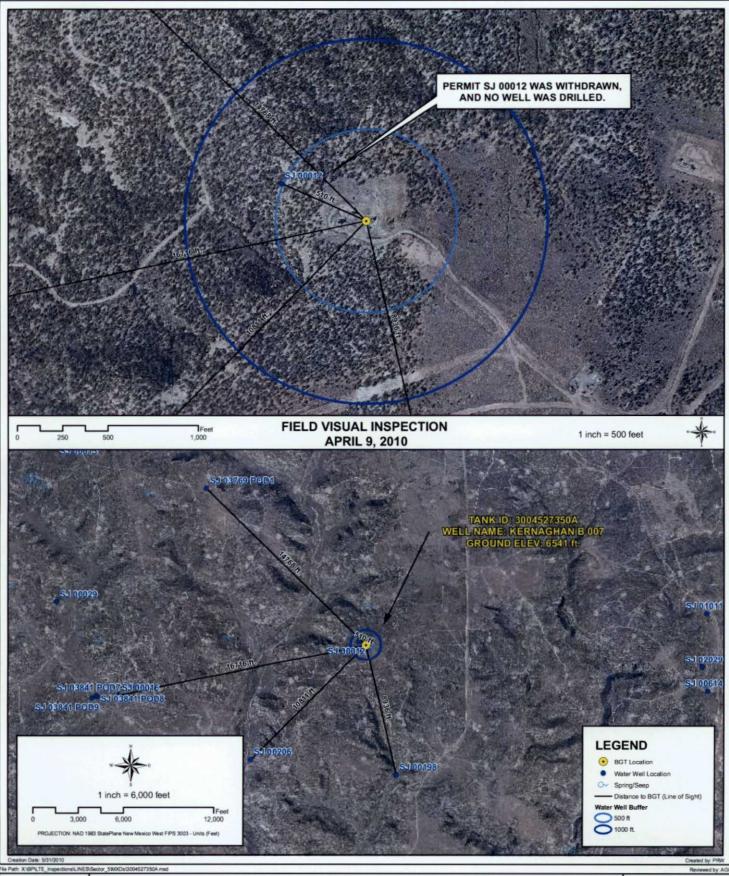
PROXIMITY TO PERMANENT STRUCTURE

WELL NAME: KERNAGHAN B 007

API NUMBER: 3004527350 TANK ID: 3004527350A SECTION 30, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE

3





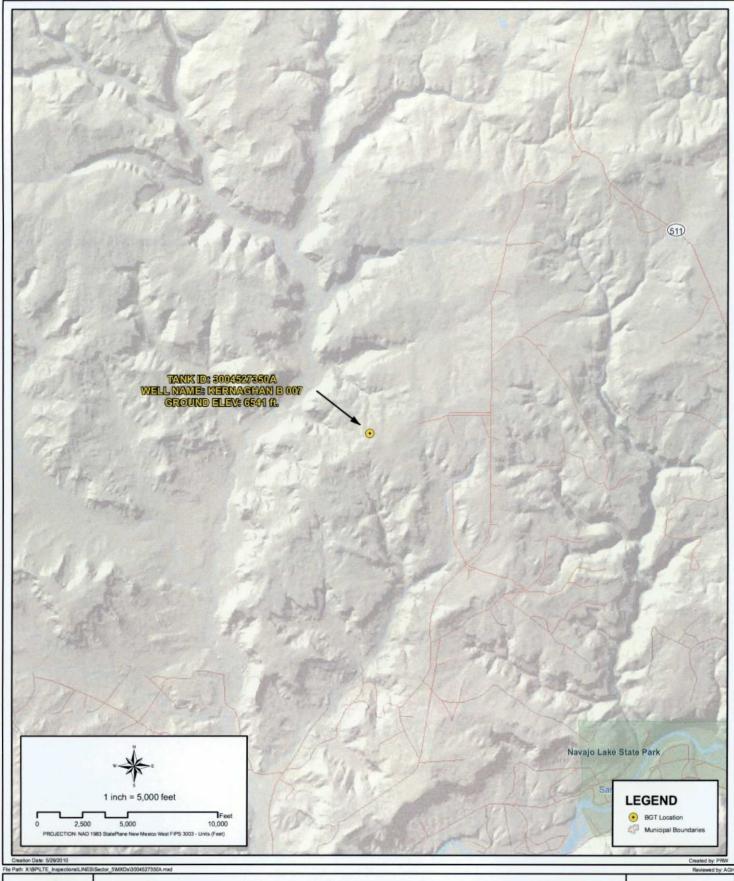
PROXIMITY TO WATER WELLS

WELL NAME: KERNAGHAN B 007

API NUMBER: 3004527350 TANK ID: 3004527350A SECTION 30, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE

4





PROXIMITY TO MUNICIPAL BOUNDARY

WELL NAME: KERNAGHAN B 007

API NUMBER: 3004527350 TANK ID: 3004527350A SECTION 30, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE 5





PROXIMITY TO WETLANDS

<u>WELL NAME: KERNAGHAN B 007</u>
API NUMBER: 3004527350 TANK ID: 3004527350A
SECTION 30, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE

6





PROXIMITY TO SUBSURFACE MINES

WELL NAME: KERNAGHAN B 007

API NUMBER: 3004527350 TANK ID: 3004527350A SECTION 30, TOWNSHIP 31.0N, RANGE 08W, P.M.NM23

FIGURE **7**





PROXIMITY TO FLOODPLAIN

WELL NAME: KERNAGHAN B 007

API NUMBER: 3004527350 TANK ID: 3004527350A SECTION 30, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE

8

SOUTHERN SAN JUAN BASIN (SSJB)

Figure Citation List

March 2010

Figure 1: Groundwater Less Than 50 ft.

Layers:

Water Wells:

iWaters Database: NMOSE/ISC (Dec. 2009)

New Mexico Office of the State Engineer (OSE) /ISC iWaters database. (Data updated: 12/2009. Data received: 03/09/2010). Data available from: http://www.ose.state.nm.us/waters_db_index.html.

Cathodic Wells:

Tierra Corrosion Control, Inc. (Aug. 2008)

Tierra Corrosion Control, Inc. 1700 Schofield Ln. Farmington, NM 87401. Driller's Data Log. (Data collected: All data are associated with cathodic protection wells installed at BP facilities between 2008-2009. Data received: 05/06/2010).

Hydrogeological Evaluation:

Wright Water Engineers, Inc. (2008)

Evaluation completed by Wright Water Engineers, Inc. Durango Office. Data created using digital statewide geology at 1:500,000 from USGS in combination with 10m Digital Elevation Model (DEM) from NRCS. (Data compiled: 2008.)

Results: Spatial Polygons representing "Groundwater likely to be less than 50 ft." and "Groundwater suspected to be less than 50 ft.".

Surficial Geology:

USGS (1963/1987)

Data digitized and rectified by Geospatial Consultants. (Data digitized: 03/23/2010). Original hard copy maps sourced from United States Geological Survey (USGS). Data available from: http://pubs.er.usgs.gov/.

Geology, Structure and Uranium Deposits of the Shiprock Quadrangle, New Mexico and Arizonia. 1:250,000. I - 345. Compiled by Robert B. O'Sullivan and Helen M. Beikman. 1963.

Geologic Map of the Aztec 1 x 2 Quadrangle, Northwestern New Mexico and Southern Colorado. 1:250,000. I - 1730. Compiled by Kim Manley, Glenn R. Scott, and Reinhard A. Wobus. 1987.

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:

NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure Citation List: Page 1 of 5

Figure 2: Proximity to Watercourses

Layers:

Perennial Streams:

NHD, USGS (2010)

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital Representation of USGS 24k Topographic map series with field updates as required. Data available from: http://nhd.usgs.gov/.

Intermittent Streams:

NHD, USGS (2010)

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital Representation of USGS 24k Topographic map series with field updates as required. Data available from: http://nhd.usgs.gov/.

Water Bodies:

NHD, USGS (2010)

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital representation of USGS 24k Topographic map series with field updates as required. Data available from: http://nhd.usgs.gov/.

USGS Topographic Maps:

USGS (2007)

USGS 24k Topographic map series. 1:24000. Maps are seamless, scanned images of USGS paper topographic maps. Data available from: http://store.usgs.gov.

Figure 3: Proximity to Permanent Structure

Layers:

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:

NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure Citation List: Page 2 of 5

Figure 4: Proximity to Water Wells

Layers:

Water Wells: iWaters Database: NMOSE/ISC (Dec. 2009)

New Mexico Office of the State Engineer (OSE) /ISC iWaters database. (Data updated: 12/2009. Data received: 03/09/2010). Data available from: http://www.ose.state.nm.us/waters_db_index.html.

Springs/Seeps:

NHD, USGS (2010)

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital representation of USGS 24k Topographic map series with field updates as required. Data available from: http://nhd.usgs.gov/.

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:

NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure 5: Proximity to Municipal Boundary

Layers:

Municipal Boundary:

San Juan County, New Mexico (2010)

Data provided by San Juan County GIS Division. (Data received: 03/25/2010).

Shaded Relief:

NED, USGS (1999)

National Elevation Dataset (NED). U.S. Geological Survey, EROS Data Center. (Data created: 1999. Data downloaded: April, 2010). Resolution: 10 meter (1/3 arc-second). Data available from: http://ned.usgs.gov/.

StreetMap North America:

Tele Atlas North America, Inc., ESRI (2008)

Data derived from Tele Atlas Dynamap/Transportation North America, version 5.2. (Data updated: annually. Data series issue: 2008).

Figure Citation List: Page 3 of 5

Figure 6: Proximity to Wetlands

Layers:

Wetlands:

NWI (2010)

National Wetlands Inventory (NWI). U.S Fish and Wildlife Service. (Data last updated: 09/25/2009. Data received: 03/21/2010). Data available from: http://www.fws.gov/wetlands/.

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:

NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure 7: Proximity to Subsurface Mine

Layers:

Subsurface Mine:

NM Mining and Minerals Division (2010)

New Mexico Mining and Minerals Division. (Data received: 03/12/2010). Contact: Susan Lucas Kamat, Geologist. Provided PLSS NM locations (Sections) for the two subsurface mines located in San Juan and Rio Arriba counties.

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:

NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure Citation List: Page 4 of 5

Figure 8: Proximity to FEMA Floodplain

Layers:

FEMA Floodplain:

FEMA (varying years)

Data digitized and rectified by Wright Water Engineers, Inc. (Data digitized: August 2008).

Digitized from hard copy Flood Insurance Rate Maps (FIRMs) (varying years) of San Juan County.

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure Citation List: Page 5 of 5

Sampling Documentation

Location: Sec 30 T31N R8W NMPM

Oil & Gas Well

Field Screening Process / Procedure Provided by Cottonwood Consulting

Chloride field screening was conducted by collecting soil samples with a stainless steel shovel from depths of 0-4 inches below ground surface, mixing the sample in a stainless steel bowl, and using Hach Chloride QuanTab® Test Strips (30-600 mg/L) to field screen the samples. FS01 and FS02 were 4-point composite samples, FS03 and FS04 were 6-point composite samples, and FS05 was a 3-point composite sample.

For each chloride field screening sample, Cottonwood added 180 mL of distilled water to 20g of soil in a beaker. The sample was stirred vigorously for 30 seconds, allowed to settle for one minute, then stirred vigorously for another 30 seconds. A filter paper, folded in a cone-shaped cup, was placed in the beaker. The lower end of the Quantab® strip was placed into the filtrate. 30 seconds after the moisture signal string at the top of the titrator turned dark, the Quantab® reading was recorded to the nearest 0.1 unit on the titrator scale at the tip of the yellow-white peak. The reading was then converted to ppm (mg/kg) chloride using the calibration chart then multiplied by the appropriate dilution factor per manufacturer's recommendations.



Soil Sampling and Field Screening Results Kernaghan B #007 Simcoe LLC

| Parameter | SS01 2/1/2022 Wet area | SS02 2/1/2022 Wet area | SS03 2/1/2022 Wet area | SS04 2/1/2022 Wet area | SS05 2/1/2022 Wet area | SS06 2/1/2022 Wet area | Units |
|---------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------|
| Depth | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | inches bgs |
| Field, PID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ppm |
| Chloride | 793 | 676 | 676 | 994 | 575 | 703 | mg/kg |
| Benzene | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | mg/kg |
| Toluene | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | mg/kg |
| Ethylbenzene | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | mg/kg |
| Total Xylenes | < 0.150 | < 0.150 | < 0.150 | < 0.150 | < 0.150 | < 0.150 | mg/kg |
| Total BTEX | < 0.300 | < 0.300 | < 0.300 | < 0.300 | < 0.300 | < 0.300 | mg/kg |
| TPH (GRO) | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | mg/kg |
| TPH (DRO) | <10.0 | <10.0 | 15.7 | <10.0 | <10.0 | <10.0 | mg/kg |
| TPH (EXT DRO) | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | mg/kg |

Notes: SS01-SS13 are 5-point composite samples. FS01 and FS02 are 4-point composite field screening samples.

FS03 and FS04 are 6-point composite field screening samples. FS05 is a 3-point composite field screening sample.

PID - Photoionization Detector

BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

EXT - Extended

NA - Not Applicable

ppm - parts per million

bgs - below ground surface

mg/kg - milligrams per kilogram



Soil Sampling and Field Screening Results (continued) Kernaghan B #007 Simcoe LLC

| Parameter | SS07 2/1/2022 Wet area | SS08 2/1/2022 Wet area | SS09 2/1/2022 Wet area | SS10 2/1/2022 Wet area | SS11 2/1/2022 Wet area | SS12 2/1/2022 Wet area | Units |
|---------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------|
| Depth | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | inches bgs |
| Field, PID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ppm |
| Chloride | 708 | 734 | 811 | 1,240 | 910 | 828 | mg/kg |
| Benzene | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | mg/kg |
| Toluene | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | mg/kg |
| Ethylbenzene | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | mg/kg |
| Total Xylenes | < 0.150 | < 0.150 | < 0.150 | < 0.150 | < 0.150 | < 0.150 | mg/kg |
| Total BTEX | < 0.300 | < 0.300 | < 0.300 | < 0.300 | < 0.300 | < 0.300 | mg/kg |
| TPH (GRO) | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | mg/kg |
| TPH (DRO) | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | mg/kg |
| TPH (EXT DRO) | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | mg/kg |

Notes: SS01-SS13 are 5-point composite samples. FS01 and FS02 are 4-point composite field screening samples.

FS03 and FS04 are 6-point composite field screening samples. FS05 is a 3-point composite field screening sample.

PID - Photoionization Detector

BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

EXT - Extended

NA - Not Applicable

ppm - parts per million

bgs - below ground surface

mg/kg - milligrams per kilogram

Received by OCD: 8/30/2022 8:35:50 AM



Soil Sampling and Field Screening Results (continued) Kernaghan B #007 Simcoe LLC

| Parameter | SS13 2/1/2022 Wet area | FS01 6/28/2022 Outside wet area | FS02 6/28/2022 Outside wet area | FS03 6/28/2022 Outside wet area | FS04 6/28/2022 Outside wet area | FS05 6/28/2022 Outside wet area | Units |
|---------------|-------------------------------|--|--|--|--|--|------------|
| Depth | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | inches bgs |
| Field, PID | 0.0 | - | - | - | - | - | ppm |
| Chloride | 422 | < 320 | < 320 | < 320 | < 320 | < 320 | mg/kg |
| Benzene | < 0.050 | - | - | - | - | - | mg/kg |
| Toluene | < 0.050 | - | - | - | - | - | mg/kg |
| Ethylbenzene | < 0.050 | - | - | - | - | - | mg/kg |
| Total Xylenes | < 0.150 | - | - | - | - | - | mg/kg |
| Total BTEX | < 0.300 | - | - | - | - | - | mg/kg |
| TPH (GRO) | <10.0 | - | - | - | - | - | mg/kg |
| TPH (DRO) | <10.0 | - | - | - | - | - | mg/kg |
| TPH (EXT DRO) | <10.0 | - | - | - | - | - | mg/kg |

Notes: SS01-SS13 are 5-point composite samples. FS01 and FS02 are 4-point composite field screening samples.

FS03 and FS04 are 6-point composite field screening samples. FS05 is a 3-point composite field screening sample.

PID - Photoionization Detector

BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

EXT - Extended

NA - Not Applicable

ppm - parts per million

bgs - below ground surface

mg/kg - milligrams per kilogram



Kernaghan B #007 Photographic Log Simcoe LLC

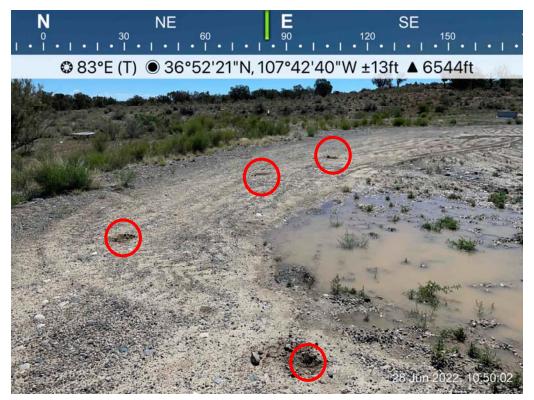


Photo 17: FS01 collected as a 4-point composite field screening sample from area adjacent to wet area, 6/28/2022.

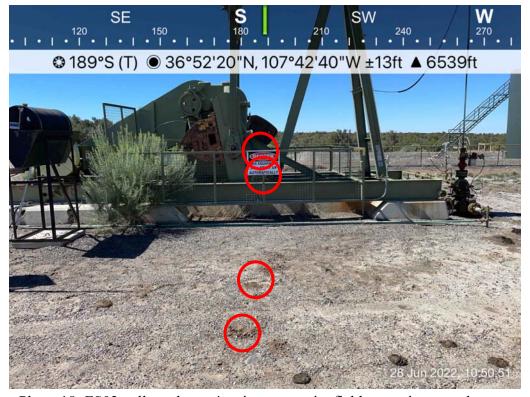


Photo 18: FS02 collected as a 4-point composite field screening sample from area adjacent to wet area, 6/28/2022.



Kernaghan B #007 Photographic Log Simcoe LLC



Photo 19: FS03 collected as a 6-point composite field screening sample from area adjacent to wet area, 6/28/2022.

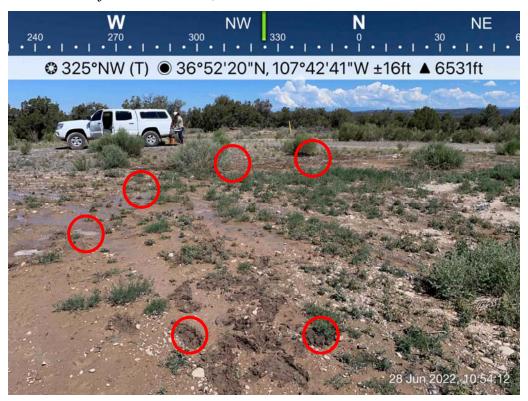


Photo 20: FS04 collected as a 6-point composite field screening sample from area adjacent to wet area, 6/28/2022.



Kernaghan B #007 Photographic Log Simcoe LLC

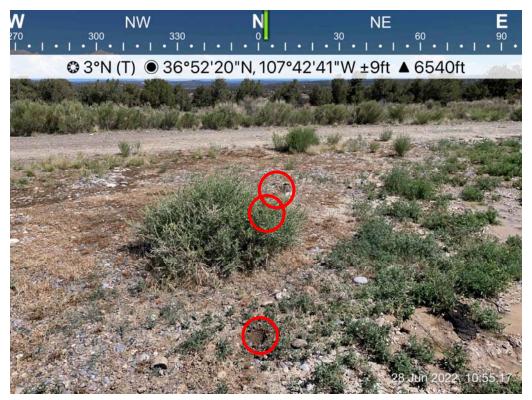


Photo 21: FS05 collected as a 3-point composite field screening sample from area adjacent to wet area, 6/28/2022.



75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

09 February 2022

Kyle Siesser Cottonwood Consulting PO Box 1653 Durango, CO 81302

RE: BTEX/TPH, CI

Enclosed are the results of analyses for samples received by the laboratory on 02/01/22 14:45. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

Debbie Zufelt

Reports Manager

Dellie Zufett

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-13

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-21-14



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting PO Box 1653

Durango CO, 81302

Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received | Notes |
|-----------|---------------|--------|----------------|----------------|-------|
| SS01 | 2202024-01 | Solid | 02/01/22 11:10 | 02/01/22 14:45 | |
| SS02 | 2202024-02 | Solid | 02/01/22 11:15 | 02/01/22 14:45 | |
| SS03 | 2202024-03 | Solid | 02/01/22 11:20 | 02/01/22 14:45 | |
| SS04 | 2202024-04 | Solid | 02/01/22 11:25 | 02/01/22 14:45 | |
| SS05 | 2202024-05 | Solid | 02/01/22 11:30 | 02/01/22 14:45 | |
| SS06 | 2202024-06 | Solid | 02/01/22 11:35 | 02/01/22 14:45 | |
| SS07 | 2202024-07 | Solid | 02/01/22 11:40 | 02/01/22 14:45 | |
| SS08 | 2202024-08 | Solid | 02/01/22 11:50 | 02/01/22 14:45 | |
| SS09 | 2202024-09 | Solid | 02/01/22 11:55 | 02/01/22 14:45 | |
| SS10 | 2202024-10 | Solid | 02/01/22 12:00 | 02/01/22 14:45 | |
| SS11 | 2202024-11 | Solid | 02/01/22 12:05 | 02/01/22 14:45 | |
| SS12 | 2202024-12 | Solid | 02/01/22 12:10 | 02/01/22 14:45 | |
| SS13 | 2202024-13 | Solid | 02/01/22 12:15 | 02/01/22 14:45 | |

Green Analytical Laboratories

Dellie Zufett

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. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

Dilution

www.GreenAnalytical.com

Method

Cottonwood Consulting PO Box 1653

Durango CO, 81302

Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

SS01

2202024-01 (Soil)

Linite

MDI

DТ

Docult

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|--------------|------------|---------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 72.4 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 793 | 69.0 | 2.10 | mg/kg dry | 50 | 02/05/22 21:43 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories | 101 East 1 | Marland | Hobbs, | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 20:06 | 8021B | | JH |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 20:06 | 8021B | | JH |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 20:06 | 8021B | | JH |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 20:06 | 8021B | | JH |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 20:06 | 8021B | | JH |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 103 % | 69.9-140 | | 02/03/22 20:06 | 8021B | | ЛН |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 15:02 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 15:02 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 15:02 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 69.9 % | 66.9-136 | | 02/04/22 15:02 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 66.7 % | 59.5-142 | | 02/04/22 15:02 | 8015B | | MS |

Green Analytical Laboratories

Deldie Zufett

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. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



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Cottonwood Consulting PO Box 1653

Durango CO, 81302

Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

SS02

| 220 | 0202 | 4-02 | (Soil) | , |
|-----|------|------|--------|---|
| 44 | 0404 | T-U4 | (BUIL | , |

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|----------------|------------|---------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 78.9 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 676 | 63.3 | 1.93 | mg/kg dry | 50 | 02/05/22 15:35 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories 1 | l01 East N | Marland | Hobbs, I | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 19:13 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 19:13 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 19:13 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 19:13 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 19:13 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 69.9-140 | | 02/03/22 19:13 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 15:17 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 15:17 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 15:17 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 72.6 % | 66.9-136 | | 02/04/22 15:17 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 69.9 % | 59.5-142 | | 02/04/22 15:17 | 8015B | | MS |

Green Analytical Laboratories

Deldie Zufett



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Mathad

Cottonwood Consulting PO Box 1653

Durango CO, 81302

Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

SS03

| 2203 | 2024- | 03 (| (Soil) | |
|------|--------------------|------|--------|--|
| 440 | 4U2 4 - | UJ I | DULL | |

MDI

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|--------------|------------|---------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 80.4 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 676 | 62.2 | 1.89 | mg/kg dry | 50 | 02/05/22 15:55 | EPA300.0 | | AES |
| Subcontracted Cardina | Laboratories | 101 East 1 | Marland | Hobbs, | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 19:30 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 19:30 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 19:30 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 19:30 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 19:30 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 69.9-140 | | 02/03/22 19:30 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | ı | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 15:31 | 8015B | | MS |
| DRO >C10-C28* | 15.7 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 15:31 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 15:31 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 72.8 % | 66.9-136 | | 02/04/22 15:31 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 69.4 % | 59.5-142 | | 02/04/22 15:31 | 8015B | | MS |

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Deldie Zufett



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Durango CO, 81302

Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported:

02/09/22 10:43

SS04

2202024-04 (Soil)

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|----------------|-----------|---------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 69.5 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 994 | 71.9 | 2.19 | mg/kg dry | 50 | 02/05/22 16:16 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories 1 | 01 East I | Marland | Hobbs, I | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 19:46 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 19:46 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 19:46 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 19:46 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 19:46 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 69.9-140 | | 02/03/22 19:46 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 15:45 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 15:45 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 15:45 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 94.5 % | 66.9-136 | | 02/04/22 15:45 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 90.6 % | 59.5-142 | | 02/04/22 15:45 | 8015B | | MS |

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Durango CO, 81302

Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

SS05

2202024-05 (Soil)

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|----------------|-----------|---------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 78.2 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 575 | 25.6 | 0.777 | mg/kg dry | 20 | 02/05/22 16:36 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories 1 | 01 East N | Marland | Hobbs, | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 20:03 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 20:03 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 20:03 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 20:03 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 20:03 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 100 % | 69.9-140 | | 02/03/22 20:03 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 16:00 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 16:00 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 16:00 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 93.6 % | 66.9-136 | | 02/04/22 16:00 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 87.6 % | 59.5-142 | | 02/04/22 16:00 | 8015B | | MS |

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Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported:

02/09/22 10:43

SS06

2202024-06 (Soil)

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|----------------|-----------|---------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 79.9 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 703 | 62.6 | 1.90 | mg/kg dry | 50 | 02/05/22 16:57 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories 1 | 01 East N | Marland | Hobbs, I | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 20:20 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 20:20 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 20:20 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 20:20 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 20:20 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 69.9-140 | | 02/03/22 20:20 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 16:14 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 16:14 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 16:14 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 81.8 % | 66.9-136 | | 02/04/22 16:14 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 75.8 % | 59.5-142 | | 02/04/22 16:14 | 8015B | | MS |

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Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

SS07

| 2202024-07 | (Soil) |
|-------------------------|--------|
| 220202 1 -0/ | (BUIL) |

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|----------------|-----------|---------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 74.0 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 708 | 67.6 | 2.06 | mg/kg dry | 50 | 02/05/22 17:17 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories 1 | 01 East N | Marland | Hobbs, I | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 20:36 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 20:36 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 20:36 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 20:36 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 20:36 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 69.9-140 | | 02/03/22 20:36 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 16:28 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 16:28 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 16:28 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 74.1 % | 66.9-136 | | 02/04/22 16:28 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 68.3 % | 59.5-142 | | 02/04/22 16:28 | 8015B | | MS |

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Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported:

02/09/22 10:43

SS08

2202024-08 (Soil)

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|----------------|-----------|---------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 75.1 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 734 | 66.6 | 2.02 | mg/kg dry | 50 | 02/05/22 17:37 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories 1 | 01 East N | Marland | Hobbs, | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 20:52 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 20:52 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 20:52 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 20:52 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 20:52 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 69.9-140 | | 02/03/22 20:52 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 16:43 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 16:43 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 16:43 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 71.9 % | 66.9-136 | | 02/04/22 16:43 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 67.5 % | 59.5-142 | | 02/04/22 16:43 | 8015B | | MS |

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Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

SS09

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|----------------|-----------|----------------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 71.2 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 811 | 70.2 | 2.14 | mg/kg dry | 50 | 02/05/22 17:58 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories 1 | 01 East N | <u>Marland</u> | Hobbs, I | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 21:09 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 21:09 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 21:09 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 21:09 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 21:09 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 99.4 % | 69.9-140 | | 02/03/22 21:09 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 16:56 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 16:56 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 16:56 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 68.3 % | 66.9-136 | | 02/04/22 16:56 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 64.1 % | 59.5-142 | | 02/04/22 16:56 | 8015B | | MS |

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Method

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Durango CO, 81302

Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported:

02/09/22 10:43

SS10

2202024-10 (Soil)

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| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|--------------|-------------------|---------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 70.3 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 1240 | 71.1 | 2.16 | mg/kg dry | 50 | 02/05/22 18:18 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories | 101 East ! | Marland | Hobbs, | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 21:25 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 21:25 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 21:25 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 21:25 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 21:25 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 102 % | 69.9-140 | | 02/03/22 21:25 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 17:11 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 17:11 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 17:11 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 102 % | 66.9-136 | | 02/04/22 17:11 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 104 % | 59.5-142 | | 02/04/22 17:11 | 8015B | | MS |

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Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

SS11

2202024-11 (Soil)

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|----------------|-----------|-----------------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 70.2 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 910 | 71.3 | 2.17 | mg/kg dry | 50 | 02/05/22 18:39 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories 1 | 01 East N | <u> Marland</u> | Hobbs, | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 21:41 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 21:41 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 21:41 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 21:41 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 21:41 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 69.9-140 | | 02/03/22 21:41 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 17:26 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 17:26 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 17:26 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 86.7 % | 66.9-136 | | 02/04/22 17:26 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 86.4 % | 59.5-142 | | 02/04/22 17:26 | 8015B | | MS |

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Method

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Durango CO, 81302

Analyte

Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

Notes

Analyst

SS12

2202024-12 (Soil)

Units

MDL

RL

Result

| Allaryte | Result | KL | WIDL | Omts | Dilution | Allaryzeu | Wictiou | INOICS | Anaryst |
|---------------------------------------|--------------|----------|---------|-----------|----------|-------------------|---------------|--------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 73.7 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 828 | 67.8 | 2.06 | mg/kg dry | 50 | 02/05/22 19:40 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories | 101 East | Marland | Hobbs, | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 21:58 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 21:58 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 21:58 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 21:58 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 21:58 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 69.9-140 | | 02/03/22 21:58 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 17:40 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 17:40 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 17:40 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 87.5 % | 66.9-136 | | 02/04/22 17:40 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 87.3 % | 59.5-142 | | 02/04/22 17:40 | 8015B | | MS |
| | | | | | | | | | |

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Method

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Durango CO, 81302

Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

SS13

2202024-13 (Soil)

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Docult

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------------------------------------|----------------|-----------|---------|-----------|----------|-------------------|---------------|-------|---------|
| General Chemistry | | | | | | | | | |
| % Dry Solids | 82.5 | | | % | 1 | 02/03/22 12:33 | EPA160.3/1684 | | VJW |
| Soluble (DI Water Extraction) | | | | | | | | | |
| Chloride | 422 | 24.2 | 0.737 | mg/kg dry | 20 | 02/05/22 20:01 | EPA300.0 | | AES |
| Subcontracted Cardinal | Laboratories 1 | 01 East I | Marland | Hobbs, I | NM 882 | 240 | | | |
| Volatile Organic Compounds by EPA | Method 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0.050 | 0.004 | mg/kg | 50 | 02/03/22 22:15 | 8021B | | MS/ |
| Toluene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 22:15 | 8021B | | MS/ |
| Ethylbenzene* | < 0.050 | 0.050 | 0.006 | mg/kg | 50 | 02/03/22 22:15 | 8021B | | MS/ |
| Total Xylenes* | < 0.150 | 0.150 | 0.014 | mg/kg | 50 | 02/03/22 22:15 | 8021B | | MS/ |
| Total BTEX | < 0.300 | 0.300 | 0.030 | mg/kg | 50 | 02/03/22 22:15 | 8021B | | MS/ |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 100 % | 69.9-140 | | 02/03/22 22:15 | 8021B | | MS/ |
| Petroleum Hydrocarbons by GC FID | 1 | | | | | | | | |
| GRO C6-C10* | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 02/04/22 17:55 | 8015B | | MS |
| DRO >C10-C28* | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 17:55 | 8015B | | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 4.26 | mg/kg | 1 | 02/04/22 17:55 | 8015B | | MS |
| Surrogate: 1-Chlorooctane | | | 84.9 % | 66.9-136 | | 02/04/22 17:55 | 8015B | | MS |
| Surrogate: 1-Chlorooctadecane | | | 83.3 % | 59.5-142 | | 02/04/22 17:55 | 8015B | | MS |

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Cottonwood Consulting PO Box 1653

Durango CO, 81302

Project: BTEX/TPH, Cl
Project Name / Number: Kernaghan B #007
Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

General Chemistry - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------|--------------------|-----------|----------------|------------------|--------------|----------------|-------|--------------|-------|
| Batch B220313 - General Prep - Wet Che | n | | | | | | | | | |
| Duplicate (B220313-DUP1) | Sour | rce: 2202024-0 | 1 Prep | ared: 02/02/2 | 22 Analyz | ed: 02/03/22 | 2 | | | |
| % Dry Solids | 73.5 | | % | | 72.4 | | | 1.43 | 20 | |
| Duplicate (B220313-DUP2) | Sou | rce: 2202042-0 | 1 Prep | ared: 02/02/2 | 22 Analyz | ed: 02/03/2 | 2 | | | |
| % Dry Solids | 58.9 | | % | | 58.8 | | | 0.212 | 20 | |
| | Soluble | (DI Water I | Extractio | on) - Qual | ity Cont | rol | | | | |
| | | Reporting | | Spike | Source | | %REC | | RPD | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

| Blank (B220337-BLK1) | | Prepared: 02/04/22 Analyzed: 02/05/22 | | | |
|------------------------|-----|---------------------------------------|--------|------|----|
| Chloride | ND | 10.0 mg/kg wet | | | |
| LCS (B220337-BS1) | | Prepared: 02/04/22 Analyzed: 02/05/22 | | | |
| Chloride | 252 | 10.0 mg/kg wet 250 101 | 85-115 | | |
| LCS Dup (B220337-BSD1) | | Prepared: 02/04/22 Analyzed: 02/05/22 | | | |
| Chloride | 260 | 10.0 mg/kg wet 250 104 | 85-115 | 3.34 | 20 |

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Cottonwood Consulting Project: BTEX/TPH, Cl
PO Box 1653 Project Name / Number: Kernaghan B #007
Durango CO, 81302 Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

Volatile Organic Compounds by EPA Method 8021 - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|--------------------|-------|----------------|------------------|-------------|----------------|-------|--------------|-------|
| Batch 2020301 - Volatiles | | | | | | | | | | |
| Blank (2020301-BLK1) | | | Prep | ared & Anal | lyzed: 02/03 | 3/22 | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0523 | | mg/kg | 0.0500 | | 105 | 69.9-140 | | | |
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| CS (2020301-BS1) | | | Prep | ared & Anal | lyzed: 02/03 | 3/22 | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0514 | | mg/kg | 0.0500 | | 103 | 69.9-140 | | | |
| Benzene | 1.95 | 0.050 | mg/kg | 2.00 | | 97.7 | 85.1-114 | | | |
| Ethylbenzene | 1.92 | 0.050 | mg/kg | 2.00 | | 96.2 | 84.4-115 | | | |
| m,p-Xylene | 3.98 | 0.100 | mg/kg | 4.00 | | 99.4 | 85.5-116 | | | |
| o-Xylene | 1.99 | 0.050 | mg/kg | 2.00 | | 99.4 | 85.2-111 | | | |
| Toluene | 2.08 | 0.050 | mg/kg | 2.00 | | 104 | 88.6-116 | | | |
| Total Xylenes | 5.96 | 0.150 | mg/kg | 6.00 | | 99.4 | 86.2-113 | | | |
| CS Dup (2020301-BSD1) | | | Prep | ared: 02/03/ | 22 Analyze | ed: 02/04/2 | .2 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0536 | | mg/kg | 0.0500 | | 107 | 69.9-140 | | | |
| Benzene | 1.86 | 0.050 | mg/kg | 2.00 | | 92.9 | 85.1-114 | 4.97 | 12.6 | |
| Ethylbenzene | 1.90 | 0.050 | mg/kg | 2.00 | | 95.2 | 84.4-115 | 1.03 | 13.9 | |
| m,p-Xylene | 3.96 | 0.100 | mg/kg | 4.00 | | 99.0 | 85.5-116 | 0.474 | 13.6 | |
| o-Xylene | 1.96 | 0.050 | mg/kg | 2.00 | | 98.2 | 85.2-111 | 1.14 | 14.1 | |
| Toluene | 2.07 | 0.050 | mg/kg | 2.00 | | 103 | 88.6-116 | 0.518 | 13.3 | |
| Total Xylenes | 5.92 | 0.150 | mg/kg | 6.00 | | 98.7 | 86.2-113 | 0.695 | 13.4 | |
| Batch 2020302 - Volatiles | | | | | | | | | | |
| elank (2020302-BLK1) | | | Prep | ared & Anal | lyzed: 02/03 | 3/22 | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | ND | | mg/kg | 0.0500 | | 99.3 | 69.9-140 | | | |
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| CS (2020302-BS1) | | | Prep | ared & Anal | lyzed: 02/03 | 3/22 | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0495 | | mg/kg | 0.0500 | | 99.1 | 69.9-140 | | | |
| Benzene | 1.94 | 0.050 | mg/kg | 2.00 | | 96.8 | 85.1-114 | | | |
| Ethylbenzene | 1.85 | 0.050 | mg/kg | 2.00 | | 92.3 | 84.4-115 | | | |

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Cottonwood Consulting Project: BTEX/TPH, Cl
PO Box 1653 Project Name / Number: Kernaghan B #007
Durango CO, 81302 Project Manager: Kyle Siesser

Reported:

02/09/22 10:43

Volatile Organic Compounds by EPA Method 8021 - Quality Control (Continued)

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------------------------------------|--------|-----------|-------|-------------|-------------|------|----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 2020302 - Volatiles (Continued) | | | | | | | | | | |
| LCS (2020302-BS1) (Continued) | | | Prep | ared & Anal | yzed: 02/03 | 3/22 | | | | |
| m,p-Xylene | 3.76 | 0.100 | mg/kg | 4.00 | | 94.1 | 85.5-116 | | | |
| o-Xylene | 1.83 | 0.050 | mg/kg | 2.00 | | 91.7 | 85.2-111 | | | |
| Toluene | 1.84 | 0.050 | mg/kg | 2.00 | | 92.0 | 88.6-116 | | | |
| Total Xylenes | 5.60 | 0.150 | mg/kg | 6.00 | | 93.3 | 86.2-113 | | | |
| LCS Dup (2020302-BSD1) | | | Prep | ared & Anal | yzed: 02/03 | 3/22 | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0492 | | mg/kg | 0.0500 | | 98.4 | 69.9-140 | | | |
| Benzene | 2.17 | 0.050 | mg/kg | 2.00 | | 109 | 85.1-114 | 11.5 | 12.6 | |
| Ethylbenzene | 2.07 | 0.050 | mg/kg | 2.00 | | 103 | 84.4-115 | 11.2 | 13.9 | |
| m,p-Xylene | 4.20 | 0.100 | mg/kg | 4.00 | | 105 | 85.5-116 | 10.9 | 13.6 | |
| o-Xylene | 2.04 | 0.050 | mg/kg | 2.00 | | 102 | 85.2-111 | 10.5 | 14.1 | |
| Toluene | 2.08 | 0.050 | mg/kg | 2.00 | | 104 | 88.6-116 | 12.3 | 13.3 | |
| Total Xylenes | 6.23 | 0.150 | mg/kg | 6.00 | | 104 | 86.2-113 | 10.8 | 13.4 | |

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Cottonwood Consulting PO Box 1653

Durango CO, 81302

Project: BTEX/TPH, Cl Project Name / Number: Kernaghan B #007 Project Manager: Kyle Siesser

Reported: 02/09/22 10:43

Petroleum Hydrocarbons by GC FID - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|----------------|------------------|------|----------------|-------|--------------|-------|
| Batch 2020401 - General Prep - Organics | | | | | | | | | | |
| Blank (2020401-BLK1) | | | Prep | ared & Ana | lyzed: 02/04 | 1/22 | | | | |
| Surrogate: 1-Chlorooctadecane | 49.6 | | mg/kg | 50.0 | | 99.2 | 59.5-142 | | | |
| Surrogate: 1-Chlorooctane | 49.5 | | mg/kg | 50.0 | | 99.1 | 66.9-136 | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | | | |
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | | |
| LCS (2020401-BS1) | | | Prep | ared & Ana | lyzed: 02/04 | 1/22 | | | | |
| Surrogate: 1-Chlorooctadecane | 47.9 | | mg/kg | 50.0 | | 95.8 | 59.5-142 | | | |
| Surrogate: 1-Chlorooctane | 49.2 | | mg/kg | 50.0 | | 98.3 | 66.9-136 | | | |
| DRO >C10-C28 | 197 | 10.0 | mg/kg | 200 | | 98.4 | 83-129 | | | |
| GRO C6-C10 | 200 | 10.0 | mg/kg | 200 | | 100 | 81.6-129 | | | |
| Total TPH C6-C28 | 397 | 10.0 | mg/kg | 400 | | 99.2 | 84.5-127 | | | |
| LCS Dup (2020401-BSD1) | | | Prep | ared & Ana | lyzed: 02/04 | 1/22 | | | | |
| Surrogate: 1-Chlorooctadecane | 49.4 | | mg/kg | 50.0 | | 98.8 | 59.5-142 | | | |
| Surrogate: 1-Chlorooctane | 49.4 | | mg/kg | 50.0 | | 98.7 | 66.9-136 | | | |
| DRO >C10-C28 | 200 | 10.0 | mg/kg | 200 | | 100 | 83-129 | 1.81 | 17.9 | |
| GRO C6-C10 | 199 | 10.0 | mg/kg | 200 | | 99.4 | 81.6-129 | 0.593 | 21.4 | |
| Total TPH C6-C28 | 399 | 10.0 | mg/kg | 400 | | 99.8 | 84.5-127 | 0.607 | 17.6 | |

Notes and Definitions

| | - |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| | *Results reported on as received basis unless designated as dry. |
| RPD | Relative Percent Difference |
| LCS | Laboratory Control Sample (Blank Spike) |
| RL | Report Limit |
| | |

Green Analytical Laboratories

DET

MDL

Seldie Zufett

Method Detection Limit

Analyte DETECTED

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Ad Pr Co nalytical

(970) 247-4220 Fax: (970) 247-4227 service@greenanalytical.com or dzufelt@greenanalytical.com
 75 Suttle St Durango, CO 81303

| Company Name: Cottonwood Consulting LLC | | Bill to (if different) | nt): ANALYSIS REQUEST |
|--|--|---|--|
| Project Manager: Kyle Siesser | d | P.O. #: | |
| Address: PO Box 1653 | *** | Company: | |
| City: Durango | State: CO Zip: 81302 | Attn: | |
| Phone #: 970-764-7356 Email | Email: ksiesser@cottonwoodconsulting.com | | |
| Additional Report To: | | - | |
| Project Name: KERNAGHAN B #007 | | State: Zin: | |
| Project Number: | | # 193 | |
| Sampler Name (Print): Emma Millar/Jacob Harter | Harter | nail: | |
| FOR LAB USE ONLY | Collected | | ntainers |
| Lab I.D. Sample Name or Location | r Location Date | OTHER: No preservation (general) HNO3 HCI | |
| 0303 040 SSOI | 2/1/2022 /// | × : × | (|
| 702 5502 | 1 11 | * | <i>></i> |
| 67.5503 | | × | |
| 1055 120 | 110 | 1125 x 3 | |
| 25 SSOS | 16 | * | × |
| 26 SSO6 | // | | × |
| XX 5507 | 1 | × | × |
| 8055 | // | × | × |
| 2000 | //: | × | × |
| PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arisin | or whether based in contract or fort shall be limited to the | B \ 1 1 | × × × |
| by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client. By GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client. | The arms were in contract or tort, shall be limited to the arms that or consequental damages, including without limitation, if reasons or otherwise. | mount paid by the client for the analyses. All claims including those for , business interruptions, loss of use, or loss of profits incurred by client, | is for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received em, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder |
| Relinquished By: | Date: Received By: | X | ADDITIONAL REMARKS: Report to State? (Circle) |
| Relinquished By: | Date: Received By: | a Sumper | Yes |
| | Time: | NACO (COLUMN) | |
| Kelinquished By: | Time: Received By: | 680 | |
| Delivered By: (Circle One) | | emperature avrediept: CMBCKED BY: | |
| Sampler UPS - FedEx - Kangaroo - Other: | S CHIEST | 8.6/8.0 ABD | ondee |

† GAL cannot always accept verbal changes. Please fax or email written change requests.
* Chain of Custody must be signed in "Reliquished By:" as an acceptance of services and all applicable charges.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

nalytical

(970) 247-4220 Fax: (970) 247-4227 service@greenanalytical.com or dzufelt@greenanalytical.com
75 Suffle St Durango CO 81303

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 139276

CONDITIONS

| Operator: | OGRID: |
|---------------------------|---|
| SIMCOE LLC | 329736 |
| 1199 Main Ave., Suite 101 | Action Number: |
| Durango, CO 81301 | 139276 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|-----------|-------------------|
| nvelez | None | 9/6/2022 |