

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    | nAPP2212641852 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Release Notification

### Responsible Party

|                                                                   |                                             |
|-------------------------------------------------------------------|---------------------------------------------|
| Responsible Party WPX Energy Permian, LLC                         | OGRID 246289                                |
| Contact Name Lacey Anderson                                       | Contact Telephone 432-294-0460              |
| Contact email Lacey.Anderson@dvn.com                              | Incident # (assigned by OCD) nAPP2212641852 |
| Contact mailing address 5315 Buena Vista Drive Carlsbad NM 882200 |                                             |

### Location of Release Source

Latitude 32.0343971 Longitude -103.8702927  
(NAD 83 in decimal degrees to 5 decimal places)

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Site Name Ross Draw Unit #075H     | Site Type Oil Well                |
| Date Release Discovered 05/06/2022 | API# (if applicable) 30-015-38240 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| C           | 22      | 26S      | 30E   | Eddy   |

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)

|                                                    |                                                                                |                                                                     |
|----------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                             |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 8                                                       | Volume Recovered (bbls) 0                                           |
|                                                    | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                             |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)                                                          | Volume Recovered (Mcf)                                              |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)                                         | Volume/Weight Recovered (provide units)                             |

#### Cause of Release

There was a hole in the bottom of a treater that resulted in a spill The fluids leaked into an unlined containment and did not breach the containment. Fluids did not leave location.

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|                                                                                                                                       |                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?                          |                                                                                      |

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                               |                                          |
| If all the actions described above have <u>not</u> been undertaken, explain why:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 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: <u>Lacee Anderson</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Title: <u>Environmental Professional</u> |
| Signature: <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date: <u>05/18/2022</u>                  |
| email: <u>Lacee.Anderson@dvn.com</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Telephone: <u>432-294-0460</u>           |
| <b>OCD Only</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
| Received by: <u>Jocelyn Harimon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date: <u>05/18/2022</u>                  |

**District I**  
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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 108286

CONDITIONS

|                                                                                              |                                                           |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289                                          |
|                                                                                              | Action Number:<br>108286                                  |
|                                                                                              | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition                                                                                                                                                          | Condition Date |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| jharimon   | When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141 | 5/18/2022      |

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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?                                                                                                           | <u>&gt;105</u> (ft bgs)                                             |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ 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
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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.

State of New Mexico  
Oil Conservation Division

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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: Lacee Anderson Title: Environmental Professional  
Signature: Lacee Anderson Date: 06/04/2022  
email: Lacee.Anderson@dvn.com Telephone: 432-294-0460

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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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 Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Lacee Anderson Title: Environmental Professional  
Signature: Lacee Anderson Date: 06/04/2022  
email: Lacee.Anderson@dvn.com Telephone: 432-294-0460

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



June 2, 2022

New Mexico Oil Conservation Division  
1220 South St, Francis Drive  
Santa Fe, NM 87505

Re: Closure Report  
Ross Draw Unit #75H  
WPX Energy Permian, LLC  
Incident # NAPP2212641852  
Site Location: Unit C, S22, T26S, R30E  
(Lat 32.0343971°, Long -103.8702927°)  
Eddy County, New Mexico

To whom it may concern:

On behalf of WPX Energy Permian, LLC (WPX), Earth Systems Response & Restoration (ESRR) has prepared this letter to document the Ross Draw Unit #75H (site) release assessment and remediation activities. The site is located at 32.0343971°, -103.8702927° within Unit C, S22, T26S, R30E, in Eddy County, New Mexico.

### **Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on May 6, 2022, due to a hole in the bottom of a treater. It resulted in approximately eight (8) barrels of produced water spilling inside the unlined caliche containment. Zero (0) barrels of produced water were recovered. The impacted area measured approximately 120 feet (ft) long by 15 ft wide.

### **Site Characterization**

Based on a review of the New Mexico Office of State Engineers and United States Geological Survey (USGS) databases, the site is located in a medium karst potential area and there are no known water features within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.30 miles southwest of the site in S22, T26S, R30E. The monitoring well has a reported depth to groundwater of >105 feet (ft) below ground surface (bgs) and was drilled in 2020. A copy of the associated Boring Log/Monitoring Well Completion Diagram is attached.

### **Regulatory Criteria**

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing and remediating the site.

#### **Surface – 4 ft. bgs**

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (Total BTEX): 50 mg/kg
- TPH: 100 mg/kg (GRO + DRO + ORO)
- Chloride: 600 mg/kg

Ross Draw Unit #75H  
WPX Energy Permian, LLC  
Incident # NAPP2212641852



**> 4 ft. bgs**

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- TPH: 1,000 mg/kg (GRO + DRO)
- TPH: 2,500 mg/kg (GRO + DRO + ORO)
- Chloride: 20,000 mg/kg

**Site Assessment**

On May 9, 2022, ESRR conducted site assessment activities to assess soil impacts resulting from the release. A total of seven (7) soil borings were advanced to depths ranging from surface to 4.0 ft bgs within and surrounding the release area to assess potential impacts vertically and horizontally. See Figure 1 and 2 for initial assessment soil sample locations. The collected soils samples were placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The soil samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 Modified, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports containing analytical methods, results, and chain-of custody documents are attached. The initial assessment soil sample analytical results are provided in Table 1.

Soils represented by soil borings HA-1 through HA-3 exhibited chloride concentrations exceeding NMOCD regulatory criteria at depths ranging from surface to 4.0 ft bgs and concentrations ranging from 16,000 mg/kg to 1,420 mg/kg. These soils additionally exhibited TPH concentrations exceeding NMOCD regulatory criteria at depths ranging from surface to 2.0 ft bgs and concentrations ranging from 2,320 mg/kg to 382 mg/kg. Additionally, soils associated with the release perimeter and represented by soil borings P-2 through P-4 exhibited elevated TPH and chloride concentrations at a depth of 0.5 ft bgs. These soils exhibited TPH and chloride concentrations ranging from 1,470 mg/kg to 215 mg/kg and 6,300 to 4,280, respectively.

**Remediation Activities and Confirmation Sampling**

ESRR was onsite May 19 - 27, 2022, performing soil remediation activities. Prior to commencing excavation activities utilizing a backhoe, two (2) buried lines were hand spotted inside the unlined caliche containment. Upon commencing excavation activities, the excavated soil was stockpiled on top of plastic liner onsite to await transport to the Northern Delaware Basin Landfill (NDBL). Approximately 380 cubic yards of impacted material was excavated and transported offsite for proper disposal. The impacted area excavation was completed on May 24, 2022. Subsequent to excavation activities, confirmation samples were collected from within the excavation. A total of ten (10) confirmation samples were collected (CS-1 through CS-10) and eight (8) sidewall samples (SW-1 through SW-8) were collected every 200 square feet to ensure removal of the impacted soils. All collected samples were analyzed for TPH analysis by EPA method 8015 Modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Laboratory analytical data suggests all impacted soils exceeding NMAC regulatory criteria have been removed. The confirmation soil sample analytical results are provided in Table 2 and Table 3. Copies of laboratory analysis and chain-of-custody documentation are attached. See Figure 3 and 4 for excavation depths and confirmation soil sample locations. Subsequent to laboratory analytical data

Ross Draw Unit #75H  
WPX Energy Permian, LLC  
Incident # NAPP2212641852



review, the excavated area was backfilled with clean topsoil material to a depth of 0.5 ft bgs. Clean caliche was then utilized as backfill material from 0.5 ft bgs to surface and raked level.

### **Conclusions**

Based on the assessment findings, onsite remediation activities, and laboratory analytical results, no further actions are required at the site. The final C-141 is attached, and WPX formally requests closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-1605.

Sincerely,

A handwritten signature in black ink that reads "K. Williams".

Kris Williams, CHMM, REM  
Operations Manager

Attached:      C-141  
                    Figure 1 – 4: Soil Sample Locations and Site Maps  
                    Table 1 – 3: Summary of Soil Analytical Data  
                    Photographic Log  
                    Groundwater Research  
                    Laboratory Analytical Reports  
                    Client Correspondence

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| Responsible Party WPX Energy Permian, LLC                         | OGRID 246289                                |
| Contact Name Lacey Anderson                                       | Contact Telephone 432-294-0460              |
| Contact email Lacey.Anderson@dvn.com                              | Incident # (assigned by OCD) nAPP2212641852 |
| Contact mailing address 5315 Buena Vista Drive Carlsbad NM 882200 |                                             |

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| Date Release Discovered 05/06/2022 | API# (if applicable) 30-015-38240 |

| Unit Letter | Section | Township | Range | County |
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Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

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|                                                    | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                             |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)                                                          | Volume Recovered (Mcf)                                              |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
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| Printed Name: <u>Lacee Anderson</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Title: <u>Environmental Professional</u> |
| Signature: <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date: <u>05/18/2022</u>                  |
| email: <u><a href="mailto:Lacee.Anderson@div.nm.gov">Lacee.Anderson@div.nm.gov</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Telephone: <u>432-294-0460</u>           |
| <b>OCD Only</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
| Received by: <u>Jocelyn Harimon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date: <u>05/18/2022</u>                  |

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

CONDITIONS

Action 108286

**CONDITIONS**

|                                                                                              |                                                           |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289                                          |
|                                                                                              | Action Number:<br>108286                                  |
|                                                                                              | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition                                                                                                                                                          | Condition Date |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| jharimon   | When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141 | 5/18/2022      |

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2212641852 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## 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?                                                                                                           | >105 (ft bgs)                                                       |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ 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
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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.

State of New Mexico  
Oil Conservation Division

Page 4

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2212641852 |
| District RP    |                |
| Facility ID    |                |
| 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: Lacee Anderson Title: Environmental Professional  
Signature: Lacee Anderson Date: 06/04/2022  
email: Lacee.Anderson@dvn.com Telephone: 432-294-0460

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2212641852 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## 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 Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Lacee Anderson

Title: Environmental Professional

Signature: Lacee Anderson

Date: 06/04/2022

email: Lacee.Anderson@dvn.com

Telephone: 432-294-0460

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui

Date: 08/24/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A

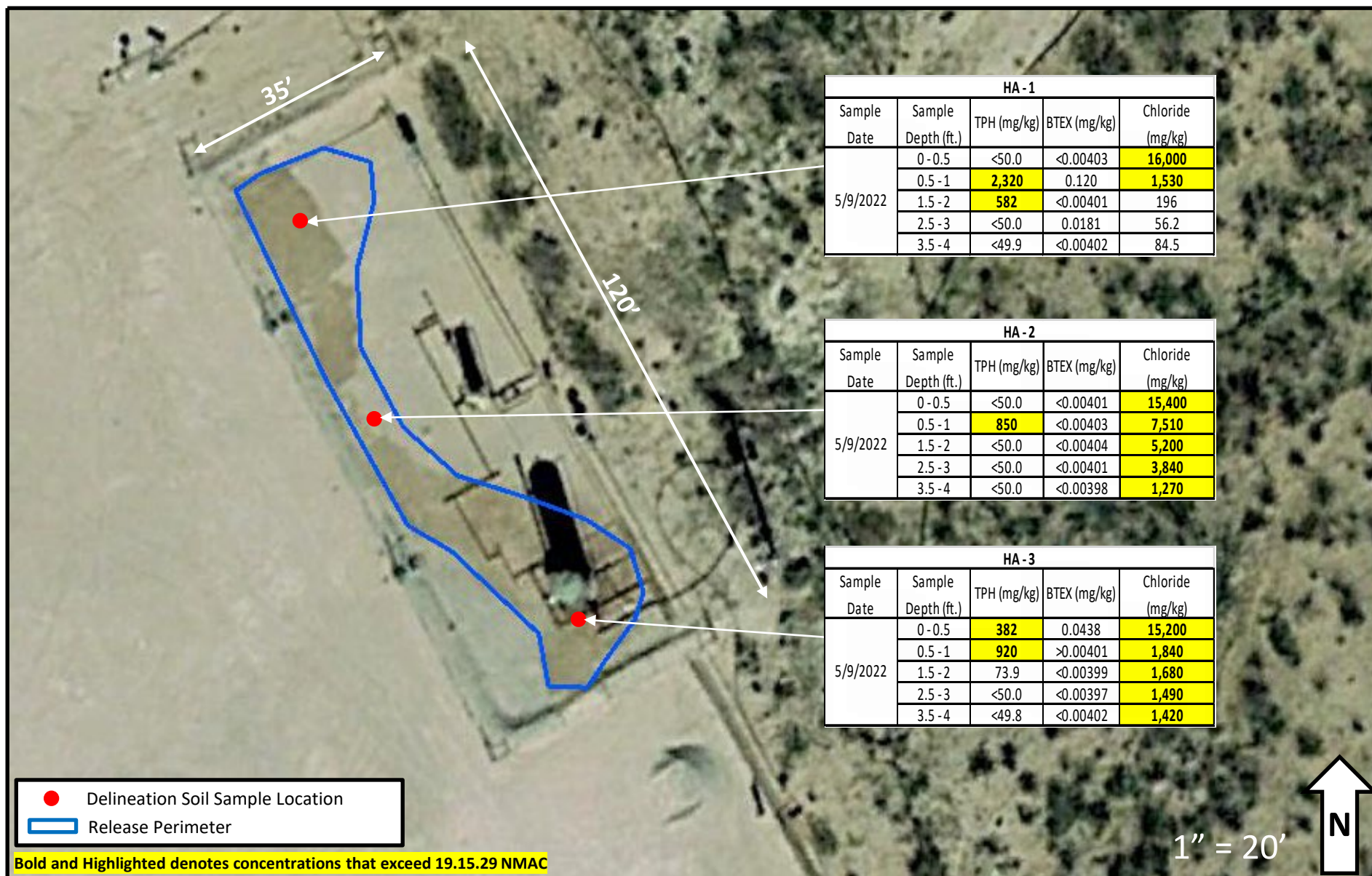


Figure 1 - Initial Assessment Soil Sample Locations and Site Map

Ross Draw Unit #75  
GPS: 32.0343971, -103.8702927  
Eddy County, New Mexico

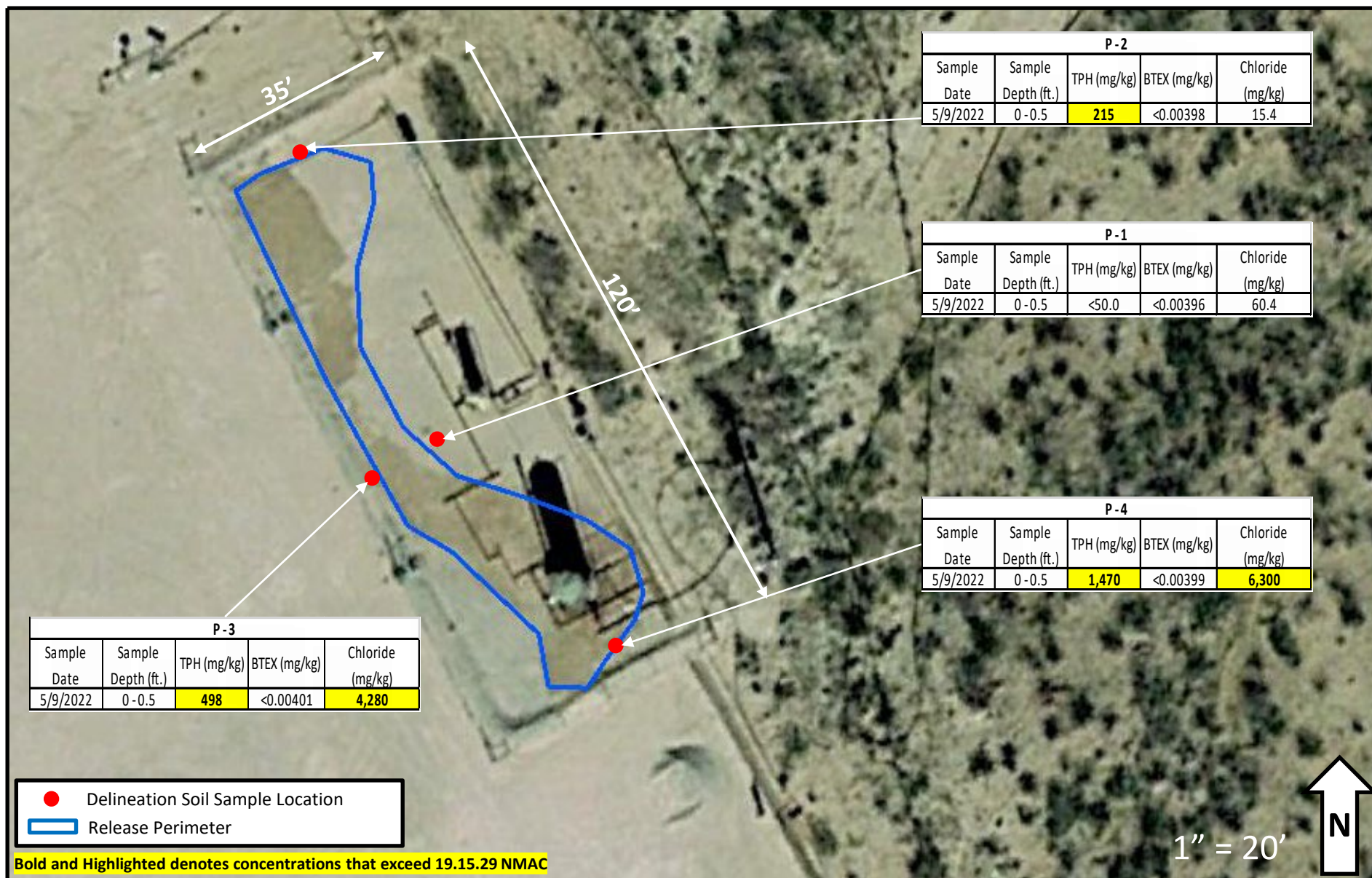


Figure 2 - Initial Assessment Soil Sample Locations and Site Map

Ross Draw Unit #75  
 GPS: 32.0343971, -103.8702927  
 Eddy County, New Mexico

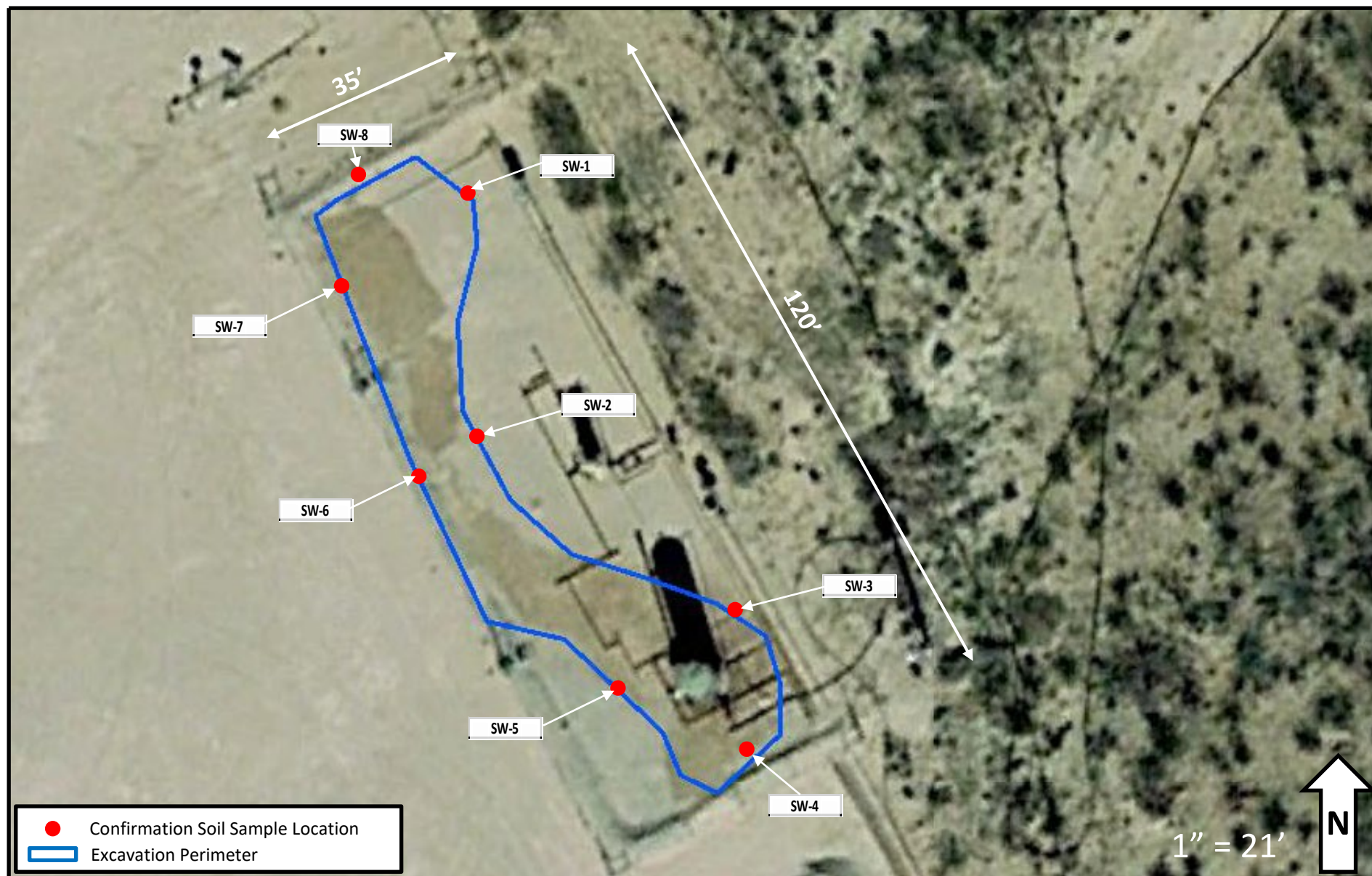


Figure 3 - Excavation Sidewall Confirmation Soil Sample Locations and Site Map

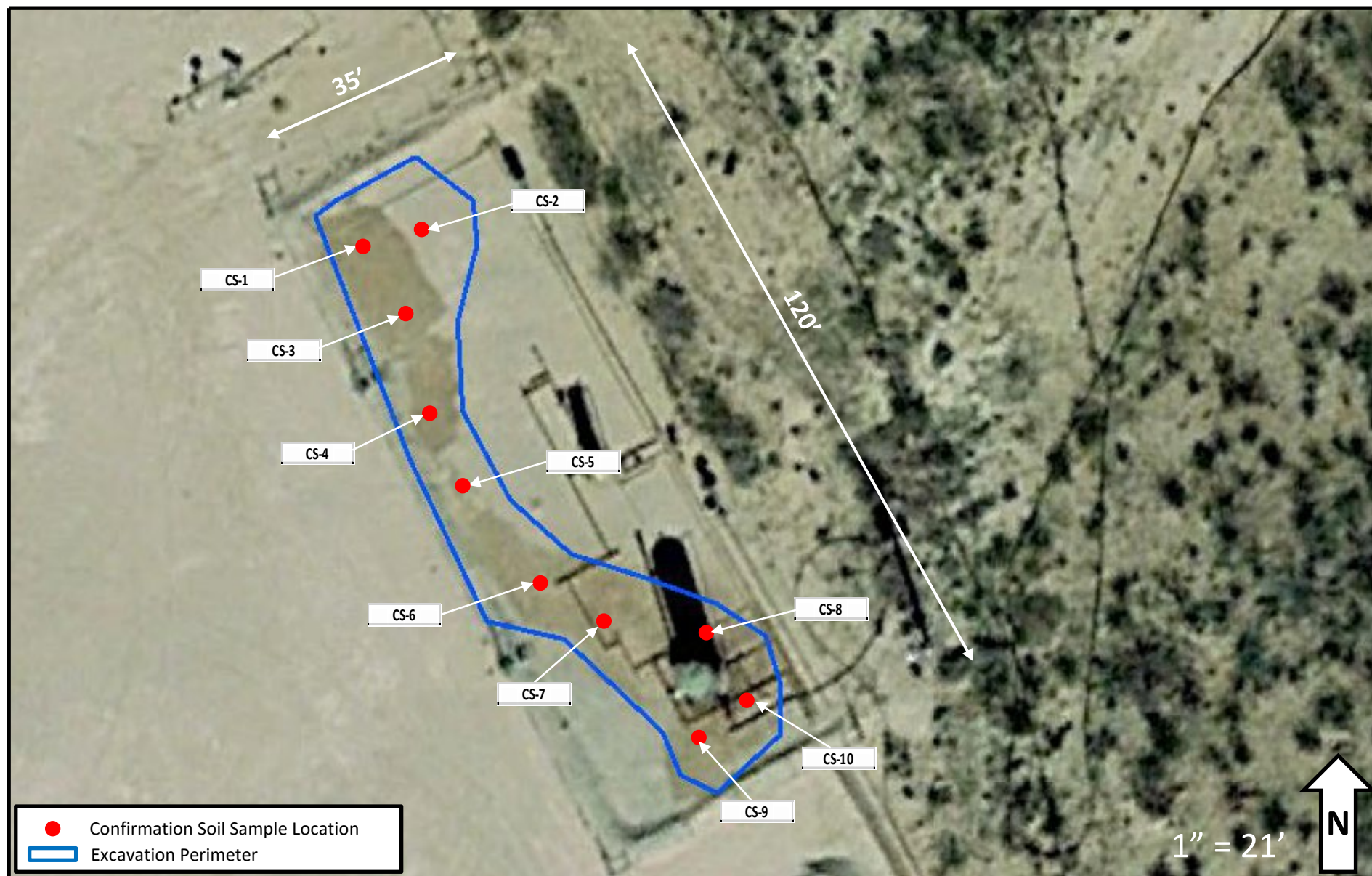
**Figure 4 - Excavation Confirmation Soil Sample Locations and Site Map**

Table 1 - Summary of Initial Assessment Soil Analytical Results

Ross Draw Unit #75H  
32.0343971, -103.8702927  
Eddy County, New Mexico

|                                |             |                   | TPH (mg/kg) |       |       |       | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethylbenzene<br>(mg/kg) | Total Xylenes<br>(mg/kg) | Total BTEX<br>(mg/kg) | Chloride<br>(mg/kg) |
|--------------------------------|-------------|-------------------|-------------|-------|-------|-------|--------------------|--------------------|-------------------------|--------------------------|-----------------------|---------------------|
|                                |             |                   | GRO         | DRO   | ORO   | Total |                    |                    |                         |                          |                       |                     |
| Regulatory Limits <sup>1</sup> |             |                   |             |       |       |       | 100 mg/kg          | 10 mg/kg           |                         |                          | 50 mg/kg              | 600 mg/kg           |
| Sample ID                      | Sample Date | Sample Depth (ft) |             |       |       |       |                    |                    |                         |                          |                       |                     |
| HA-1                           | 5/10/2022   | 0-0.5             | <50.0       | <50.0 | <50.0 | <50.0 | <0.00202           | <0.00202           | <0.00202                | <0.00403                 | <0.00403              | 16,000              |
|                                |             | 0.5-1             | 57.7        | 2,320 | <49.9 | 2,380 | <0.00200           | <0.00200           | 0.00490                 | 0.115                    | 0.120                 | 1,530               |
|                                |             | 1.5-2             | <50.0       | 582   | <50.0 | 582   | <0.00200           | <0.00200           | <0.00200                | <0.00401                 | <0.00401              | 196                 |
|                                |             | 2.5-3             | <50.0       | <50.0 | <50.0 | <50.0 | <0.00201           | 0.0181             | <0.00201                | <0.00402                 | 0.0181                | 56.2                |
|                                |             | 3.5-4             | <49.9       | <49.9 | <49.9 | <49.9 | <0.00201           | <0.00201           | <0.00201                | <0.00402                 | <0.00402              | 84.5                |
| HA-2                           | 5/10/2022   | 0-0.5             | <50.0       | <50.0 | <50.0 | <50.0 | <0.00200           | <0.00200           | <0.00200                | <0.00401                 | <0.00401              | 15,400              |
|                                |             | 0.5-1             | <49.9       | 850   | <49.9 | 850   | <0.00202           | <0.00202           | <0.00202                | <0.00403                 | <0.00403              | 7,510               |
|                                |             | 1.5-2             | <50.0       | <50.0 | <50.0 | <50.0 | <0.00202           | <0.00202           | <0.00202                | <0.00404                 | <0.00404              | 5,200               |
|                                |             | 2.5-3             | <50.0       | <50.0 | <50.0 | <50.0 | <0.00200           | <0.00200           | <0.00200                | <0.00401                 | <0.00401              | 3,840               |
|                                |             | 3.5-4             | <50.0       | <50.0 | <50.0 | <50.0 | <0.00199           | <0.00199           | <0.00199                | <0.00398                 | <0.00398              | 1,270               |
| HA-3                           | 5/10/2022   | 0-0.5             | <49.9       | 382   | <49.9 | 382   | 0.00892            | 0.0179             | 0.00254                 | 0.0144                   | 0.0438                | 15,200              |
|                                |             | 0.5-1             | <49.9       | 920   | <49.9 | 920   | <0.00200           | <0.00200           | <0.00200                | <0.00401                 | <0.00401              | 1,840               |
|                                |             | 1.5-2             | <49.8       | 73.9  | <49.8 | 73.9  | <0.00200           | <0.00200           | <0.00200                | <0.00399                 | <0.00399              | 1,680               |
|                                |             | 2.5-3             | <50.0       | <50.0 | <50.0 | <50.0 | <0.00198           | <0.00198           | <0.00198                | <0.00397                 | <0.00397              | 1,490               |
|                                |             | 3.5-4             | <49.8       | <49.8 | <49.8 | <49.8 | <0.00201           | <0.00201           | <0.00201                | <0.00402                 | <0.00402              | 1,420               |
| P-1                            | 5/10/2022   | 0-0.5             | <50.0       | <50.0 | <50.0 | <50.0 | <0.00198           | <0.00198           | <0.00198                | <0.00396                 | <0.00396              | 60.4                |
| P-2                            | 5/10/2022   | 0-0.5             | <49.9       | 215   | <49.9 | 215   | <0.00199           | <0.00199           | <0.00199                | <0.00398                 | <0.00398              | 15.4                |
| P-3                            | 5/10/2022   | 0-0.5             | <49.9       | 498   | <49.9 | 498   | <0.00200           | <0.00200           | <0.00200                | <0.00401                 | <0.00401              | 4,280               |
| P-4                            | 5/10/2022   | 0-0.5             | <50.0       | 1,470 | <50.0 | 1,470 | <0.00200           | <0.00200           | <0.00200                | <0.00399                 | <0.00399              | 6,300               |

Exceeds 19.15.29 NMAC

TPH - Total Petroleum Hydrocarbons

ft - feet

mg/kg - milligram per kilogram

<sup>1</sup> - 19.15.29 NMAC

Table 2 - Summary of Excavation Confirmation Soil Analytical Results

Ross Draw Unit #75H  
32.0343971, -103.8702927  
Eddy County, New Mexico

|                                |             |                   | TPH (mg/kg) |       |       |             | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethylbenzene<br>(mg/kg) | Total Xylenes<br>(mg/kg) | Total BTEX<br>(mg/kg) | Chloride<br>(mg/kg) |
|--------------------------------|-------------|-------------------|-------------|-------|-------|-------------|--------------------|--------------------|-------------------------|--------------------------|-----------------------|---------------------|
|                                |             |                   | GRO         | DRO   | ORO   | Total       |                    |                    |                         |                          |                       |                     |
| Regulatory Limits <sup>1</sup> |             |                   | 1,000 mg/kg |       |       | 2,500 mg/kg | 10 mg/kg           |                    |                         |                          | 50 mg/kg              | 20,000 mg/kg        |
| Sample ID                      | Sample Date | Sample Depth (ft) |             |       |       |             |                    |                    |                         |                          |                       |                     |
| CS-1                           | 5/25/2022   | 4 - 4.5           | <50.0       | 187   | <50.0 | 187         | <0.00201           | <0.00201           | <0.00201                | <0.00402                 | <0.00402              | 1,140               |
| CS-2                           | 5/25/2022   | 4 - 4.5           | <49.9       | 64.1  | <49.9 | 64.1        | <0.00202           | <0.00202           | <0.00202                | <0.00404                 | <0.00404              | 821                 |
| CS-3                           | 5/25/2022   | 4 - 4.5           | <49.9       | <49.9 | <49.9 | <49.9       | <0.00202           | <0.00202           | <0.00202                | <0.00403                 | <0.00403              | 1,130               |
| CS-4                           | 5/25/2022   | 4 - 4.5           | <50.0       | <50.0 | <50.0 | <50.0       | <0.00201           | <0.00201           | <0.00201                | <0.00402                 | <0.00402              | 610                 |
| CS-5                           | 5/25/2022   | 4 - 4.5           | <49.9       | <49.9 | <49.9 | <49.9       | <0.00200           | <0.00200           | <0.00200                | <0.00401                 | <0.00401              | 1,070               |
| CS-6                           | 5/25/2022   | 4 - 4.5           | <50.0       | <50.0 | <50.0 | <50.0       | <0.00199           | <0.00199           | <0.00199                | <0.00398                 | <0.00398              | 2,390               |
| CS-7                           | 5/25/2022   | 4 - 4.5           | <50.0       | <50.0 | <50.0 | <50.0       | <0.00200           | <0.00200           | <0.00200                | <0.00399                 | <0.00399              | 5,900               |
| CS-8                           | 5/25/2022   | 4 - 4.5           | <50.0       | <50.0 | <50.0 | <50.0       | <0.00200           | <0.00200           | <0.00200                | <0.00400                 | <0.00400              | 1,750               |
| CS-9                           | 5/25/2022   | 4 - 4.5           | <50.0       | <50.0 | <50.0 | <50.0       | <0.00198           | <0.00198           | <0.00198                | <0.00396                 | <0.00396              | 8,520               |
| CS-10                          | 5/25/2022   | 4 - 4.5           | <49.9       | <49.9 | <49.9 | <49.9       | <0.00199           | <0.00199           | <0.00199                | <0.00398                 | <0.00398              | 8,060               |

TPH - Total Petroleum Hydrocarbons

ft - feet

mg/kg - milligram per kilogram

<sup>1</sup> - 19.15.29 NMAC, Groundwater >105 ft & drilled in 2020

**Table 3 - Summary of Excavation Sidewall Confirmation Soil Analytical Results**

**Ross Draw Unit #75H  
32.0343971, -103.8702927  
Eddy County, New Mexico**

|                                |             |                   | TPH (mg/kg) |       |       |       | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethylbenzene<br>(mg/kg) | Total Xylenes<br>(mg/kg) | Total BTEX<br>(mg/kg) | Chloride<br>(mg/kg) |
|--------------------------------|-------------|-------------------|-------------|-------|-------|-------|--------------------|--------------------|-------------------------|--------------------------|-----------------------|---------------------|
|                                |             |                   | GRO         | DRO   | ORO   | Total |                    |                    |                         |                          |                       |                     |
| Regulatory Limits <sup>1</sup> |             |                   |             |       |       |       | 100 mg/kg          | 10 mg/kg           |                         |                          | 50 mg/kg              | 600 mg/kg           |
| Sample ID                      | Sample Date | Sample Depth (ft) |             |       |       |       |                    |                    |                         |                          |                       |                     |
| SW-1                           | 5/25/2022   | -                 | <50.0       | <50.0 | <50.0 | <50.0 | <0.00199           | <0.00199           | <0.00199                | <0.00398                 | <0.00398              | 107                 |
| SW-2                           | 5/25/2022   | -                 | <50.0       | <50.0 | <50.0 | <50.0 | <0.00199           | <0.00199           | <0.00199                | <0.00398                 | <0.00398              | 134                 |
| SW-3                           | 5/25/2022   | -                 | <50.0       | <50.0 | <50.0 | <50.0 | <0.00200           | <0.00200           | <0.00200                | <0.00401                 | <0.00401              | 72.3                |
| SW-4                           | 5/25/2022   | -                 | <50.0       | <50.0 | <50.0 | <50.0 | <0.00201           | <0.00201           | <0.00201                | <0.00402                 | <0.00402              | 115                 |
| SW-5                           | 5/25/2022   | -                 | <50.0       | <50.0 | <50.0 | <50.0 | <0.00199           | <0.00199           | <0.00199                | <0.00396                 | <0.00396              | 170                 |
| SW-6                           | 5/25/2022   | -                 | <50.0       | <50.0 | <50.0 | <50.0 | <0.00200           | <0.00200           | <0.00200                | <0.00401                 | <0.00401              | 312                 |
| SW-7                           | 5/25/2022   | -                 | <50.0       | <50.0 | <50.0 | <50.0 | <0.00200           | <0.00200           | <0.00200                | <0.00400                 | <0.00400              | 62.6                |
| SW-8                           | 5/25/2022   | -                 | <50.0       | <50.0 | <50.0 | <50.0 | <0.00200           | <0.00200           | <0.00200                | <0.00399                 | <0.00399              | 141                 |

TPH - Total Petroleum Hydrocarbons

ft - feet

mg/kg - milligram per kilogram

<sup>1</sup> - 19.15.29 NMAC

Ross Draw Unit #75  
32.0343971, -103.8702927  
Eddy County, New Mexico



PHOTO 1: View of the impacted area facing northeast. 5/10/2022



PHOTO 2: View of the impacted area facing southeast. 5/10/2022

Ross Draw Unit #75  
32.0343971, -103.8702927  
Eddy County, New Mexico



PHOTO 3: View of the impacted area facing southeast. 5/10/2022



PHOTO 4: View of the impacted area facing north. 5/10/2022

Ross Draw Unit #75  
32.0343971, -103.8702927  
Eddy County, New Mexico



PHOTO 5: View of the excavated area facing east. 5/24/2022



PHOTO 6: View of the excavated area facing north. 5/24/2022

Ross Draw Unit #75  
32.0343971, -103.8702927  
Eddy County, New Mexico



PHOTO 11: View of the excavated area facing south. 5/26/2022



PHOTO 12: View of the excavated area facing east. 5/26/2022

Ross Draw Unit #75  
32.0343971, -103.8702927  
Eddy County, New Mexico



**PHOTO 13:** View of the area being backfilled facing south. 5/26/2022



**PHOTO 14:** View of the area being backfilled facing north. 5/26/2022

Ross Draw Unit #75  
32.0343971, -103.8702927  
Eddy County, New Mexico



**PHOTO 15:** View of the remediated area facing north. 5/27/2022



**PHOTO 16:** View of the remediated area facing east. 5/27/2022

Ross Draw Unit #75  
32.0343971, -103.8702927  
Eddy County, New Mexico



PHOTO 17: View of the remediated area facing northwest. 5/27/2022



PHOTO 18: View of the remediated area facing west. 5/27/2022

Ross Draw Unit #75  
32.0343971, -103.8702927  
Eddy County, New Mexico



**PHOTO 19:** View of the remediated area facing south. 5/27/2022



**PHOTO 20:** View of the remediated area facing southwest. 5/27/2022

Ross Draw Unit #75  
32.0343971, -103.8702927  
Eddy County, New Mexico



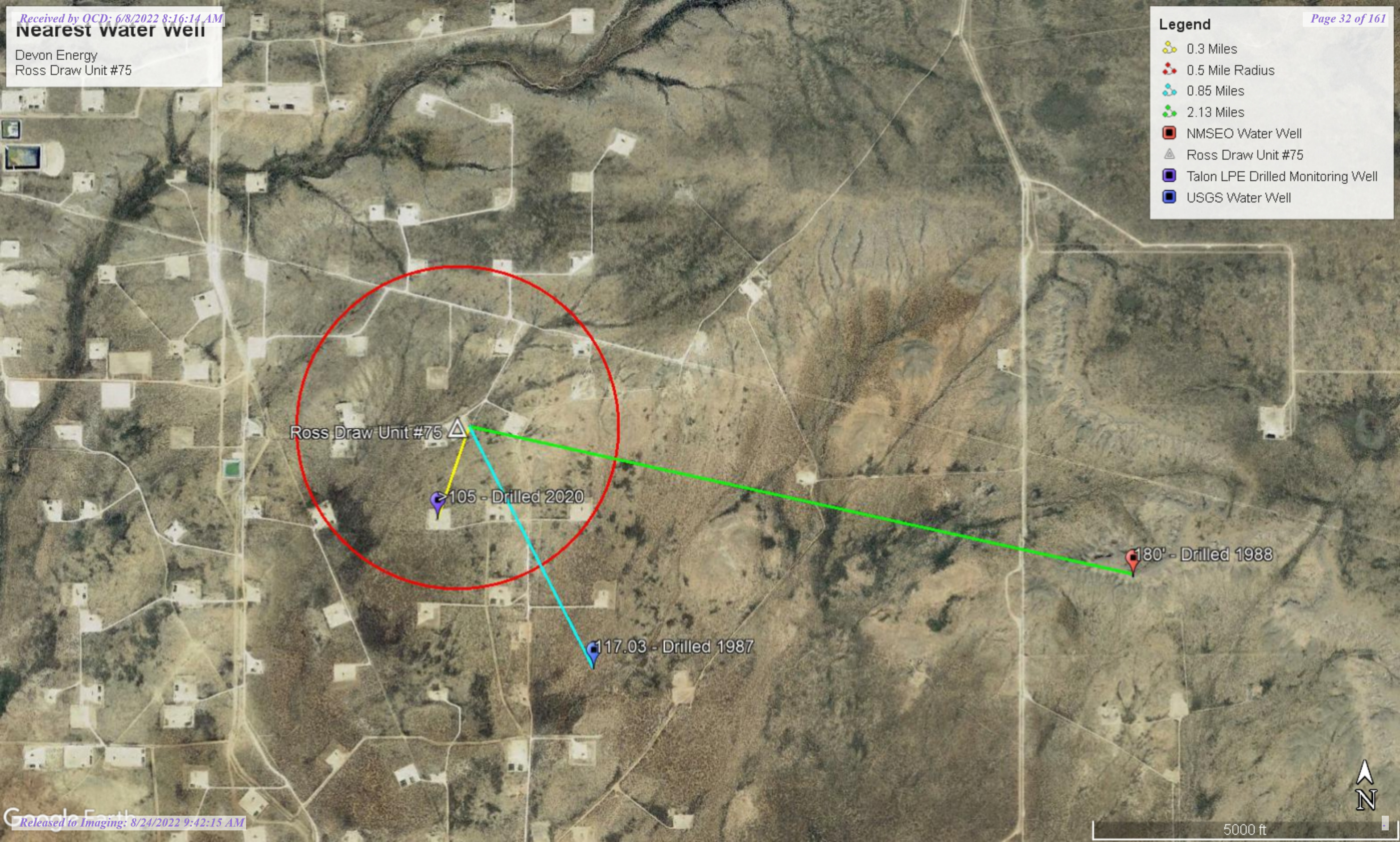
**PHOTO 21:** View of the remediated area facing south. 5/27/2022

**Nearest water well**

Devon Energy  
Ross Draw Unit #75

**Legend**

- 0.3 Miles
- 0.5 Mile Radius
- 0.85 Miles
- 2.13 Miles
- NMSEO Water Well
- Ross Draw Unit #75
- Talon LPE Drilled Monitoring Well
- USGS Water Well



# Karst Potential

Devon Energy

Legend

 MEDIUM

 Ross Draw Unit #75

Ross Draw Unit #75

|  <b>HRL<br/>COMPLIANCE<br/>SOLUTIONS</b> |               |                     |                                       |                                   |          |                               | BORING LOG/MONITORING WELL COMPLETION DIAGRAM |                                    |                                                                                   |                                 |                                     |                 |  |
|---------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|---------------------------------------|-----------------------------------|----------|-------------------------------|-----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|---------------------------------|-------------------------------------|-----------------|--|
|                                                                                                                           |               |                     |                                       |                                   |          |                               | Boring/Well Number:<br>MW-1                   |                                    |                                                                                   | Location:<br>Ross Draw Unit #38 |                                     |                 |  |
|                                                                                                                           |               |                     |                                       |                                   |          |                               | Date:<br>12/8/2020                            |                                    |                                                                                   | Client:<br>WPX Energy           |                                     |                 |  |
| Drilling Method:<br>Air Rotary                                                                                            |               |                     | Sampling Method:<br>None              |                                   |          |                               | Logged By:<br>J. Linn, PG                     |                                    |                                                                                   | Drilled By:<br>Talon LPE        |                                     |                 |  |
| Gravel Pack Type:<br>10/20 Sand                                                                                           |               |                     | Gravel Pack Depth Interval:<br>3 Bags |                                   |          |                               | Seal Type:<br>None                            |                                    | Seal Depth Interval:<br>None                                                      |                                 | Latitude:<br>32.030300              |                 |  |
| Casing Type:<br>PVC                                                                                                       |               | Diameter:<br>2-inch |                                       | Depth Interval:<br>0-100 feet bgs |          |                               | Boring Total Depth (ft. BGS):<br>105          |                                    |                                                                                   | Longitude:<br>-103.871338       |                                     |                 |  |
| Screen Type:<br>PVC                                                                                                       |               | Slot:<br>0.010-inch |                                       | Diameter:<br>2-inch               |          | Depth Interval:<br>100-105 ft |                                               | Well Total Depth (ft. BGS):<br>105 |                                                                                   |                                 | Depth to Water (ft. BTOC):<br>> 105 |                 |  |
| DTW Date:<br>12/16/2020                                                                                                   |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| Depth Interval (ft)                                                                                                       | Recovery (ft) | Plasticity          | Moisture                              | Odor                              | Staining | PID (ppm)                     | USCS                                          | Sample ID                          | Lithology/Remarks                                                                 |                                 |                                     | Well Completion |  |
| 0                                                                                                                         | NM            | L                   | D                                     | N                                 | N        | NM                            | SW                                            | NS                                 | Pale orange/pale pink to buff colored fine sand with minor medium and coarse sand |                                 |                                     |                 |  |
| 5                                                                                                                         |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 10                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 15                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 20                                                                                                                        | NM            | L                   | D                                     | N                                 | N        | NM                            | SP                                            | NS                                 | Pale orange/pale pink poorly graded fine sand                                     |                                 |                                     |                 |  |
| 25                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 30                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 35                                                                                                                        | NM            | L                   | D                                     | N                                 | N        | NM                            | SP                                            | NS                                 | Tan/pale brown/pale orange poorly graded fine sand                                |                                 |                                     |                 |  |
| 40                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 45                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 50                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 55                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 60                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 65                                                                                                                        | NM            | L                   | D                                     | N                                 | N        | NM                            | SP                                            | NS                                 | Brick red brown poorly graded fine sand                                           |                                 |                                     |                 |  |
| 70                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 75                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 80                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 85                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 90                                                                                                                        |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |
| 95                                                                                                                        | NM            | L                   | D                                     | N                                 | N        | NM                            | SP                                            | NS                                 | Tan/pale brown/pale orange poorly graded fine sand - TD 105' BGS                  |                                 |                                     |                 |  |
| 100                                                                                                                       |               |                     |                                       |                                   |          |                               |                                               |                                    |                                                                                   |                                 |                                     |                 |  |



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number                   | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Distance | Depth Well | Depth Water | Water Column |
|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| <a href="#">C 04068 POD1</a> | CUB          | ED    |        | 1    | 3    | 1   | 16  | 26S | 30E | 604397 | 3546018  | 2575     |            |             |              |
| <a href="#">C 02165</a>      | C            | ED    |        |      |      |     | 24  | 26S | 30E | 610036 | 3544121* | 3434     | 440        | 180         | 260          |

Average Depth to Water: **180 feet**

Minimum Depth: **180 feet**

Maximum Depth: **180 feet**

Record Count: 2

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 606670

**Northing (Y):** 3544806.21

**Radius:** 4000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/6/22 1:45 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

|          |            |     |     |    |     |     |     |        |          |
|----------|------------|-----|-----|----|-----|-----|-----|--------|----------|
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X      | Y        |
|          | C 02165    |     |     |    | 24  | 26S | 30E | 610036 | 3544121* |

Driller License: 421

Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: CORKY GLENN

Drill Start Date: 05/02/1988

Drill Finish Date: 05/02/1988

Plug Date:

Log File Date: 05/05/1988

PCW Rev Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 75 GPM

Casing Size: 6.63

Depth Well: 440 feet

Depth Water: 180 feet

Water Bearing Stratifications:

Top Bottom Description

318 432 Other/Unknown

Casing Perforations:

Top Bottom

296 440

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



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Data Category:  
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Geographic Area:  
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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320125103514701

Minimum number of levels = 1  
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USGS 320125103514701 26S.30E.22.44124

Eddy County, New Mexico  
Latitude 32°01'25", Longitude 103°51'47" NAD27  
Land-surface elevation 3,044 feet above NGVD29  
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |

| Date       | Time | ?<br>Water-level date-time accuracy | ?<br>Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ?<br>Status | ?<br>Method of measurement | ?<br>Measuring agency | ?<br>Source measu |
|------------|------|-------------------------------------|---------------------|--------------------------------------|-------------------------------------------------|---------------------------|-------------|----------------------------|-----------------------|-------------------|
|            |      |                                     |                     |                                      |                                                 |                           |             |                            |                       |                   |
| 1987-10-21 |      |                                     | D                   | 62610                                | 2926.97                                         | NGVD29                    | 1           |                            | S                     |                   |
| 1987-10-21 |      |                                     | D                   | 62611                                | 2928.54                                         | NAVD88                    | 1           |                            | S                     |                   |
| 1987-10-21 |      |                                     | D                   | 72019                                | 117.03                                          |                           | 1           |                            | S                     |                   |

Explanation

| Section                        | Code   | Description                                   |
|--------------------------------|--------|-----------------------------------------------|
| Water-level date-time accuracy | D      | Date is accurate to the Day                   |
| Parameter code                 | 62610  | Groundwater level above NGVD 1929, feet       |
| Parameter code                 | 62611  | Groundwater level above NAVD 1988, feet       |
| Parameter code                 | 72019  | Depth to water level, feet below land surface |
| Referenced vertical datum      | NAVD88 | North American Vertical Datum of 1988         |
| Referenced vertical datum      | NGVD29 | National Geodetic Vertical Datum of 1929      |
| Status                         | 1      | Static                                        |
| Method of measurement          | S      | Steel-tape measurement.                       |

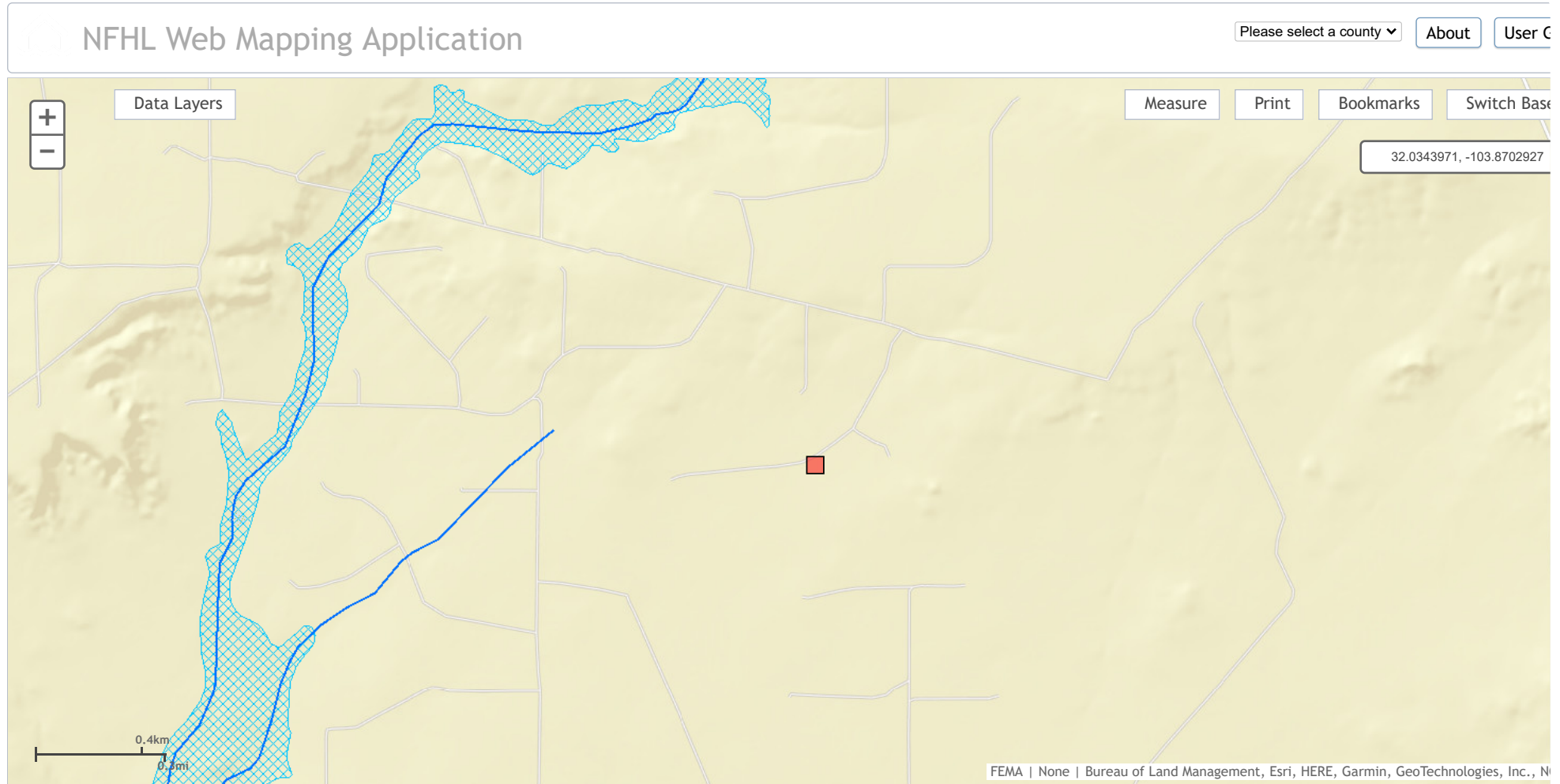
| Section                     | Code | Description                                                  |
|-----------------------------|------|--------------------------------------------------------------|
| Measuring agency            |      | Not determined                                               |
| Source of measurement       |      | Not determined                                               |
| Water-level approval status | A    | Approved for publication -- Processing and review completed. |

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**Title: Groundwater for New Mexico: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**

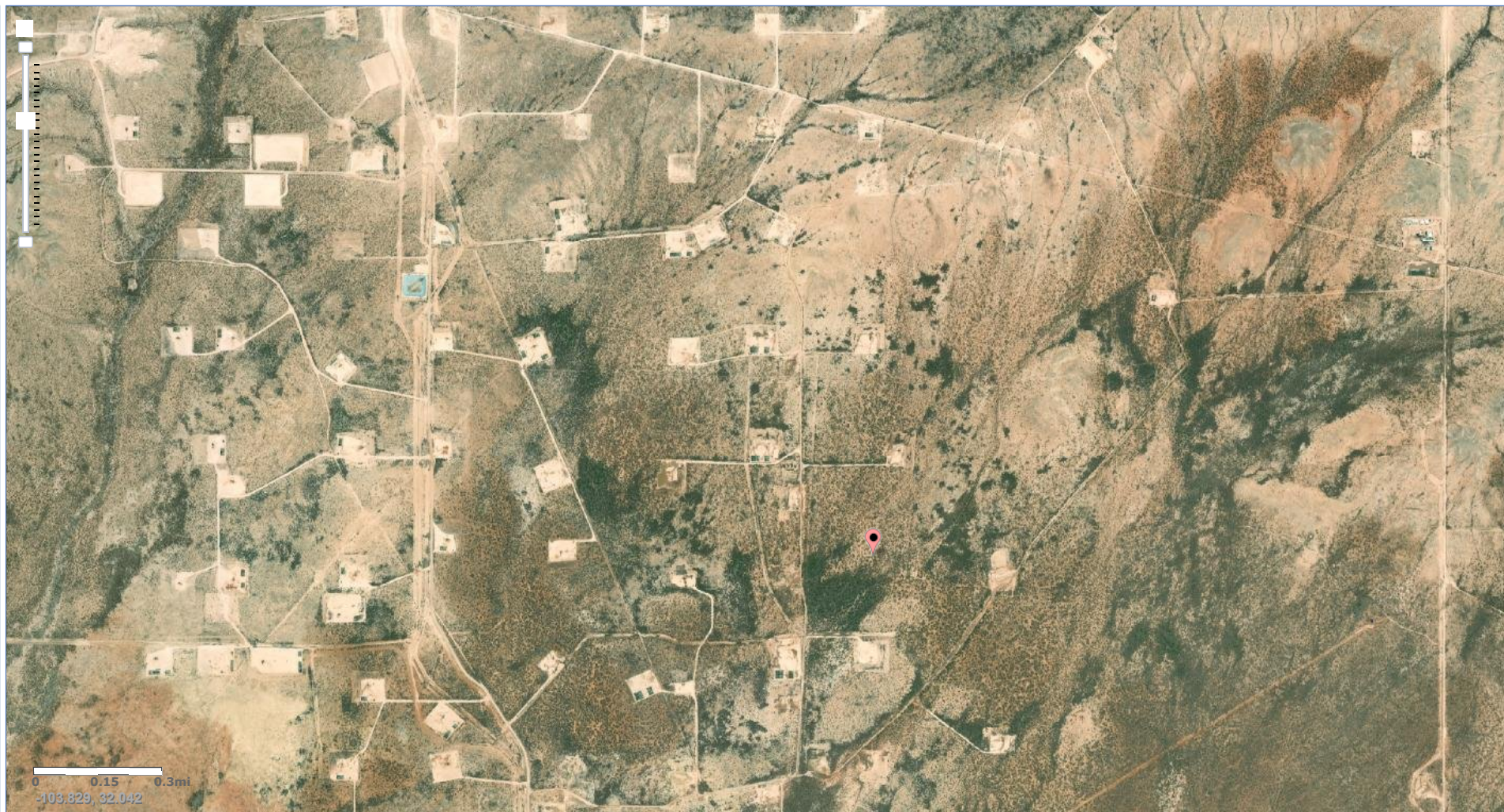


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Page Last Modified: 2022-05-06 15:34:55 EDT  
0.34 0.3 nadww01





National Water Information System: Mapper



Site Information



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-14653-1

Laboratory Sample Delivery Group: Eddy Co, NM  
Client Project/Site: Ross Draw Unit #75

For:

Earth Systems Response and Restoration  
4115 South County Road 1297  
Odessa, Texas 79765

Attn: Kris Williams

A rectangular box containing a handwritten signature in blue ink that reads "Brianna Teel".

Authorized for release by:  
5/13/2022 12:03:54 PM

Brianna Teel, Project Manager  
(432)704-5440  
[Brianna.Teel@et.eurofinsus.com](mailto:Brianna.Teel@et.eurofinsus.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Laboratory Job ID: 880-14653-1  
SDG: Eddy Co, NM

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## Definitions/Glossary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ⌘              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

**Job ID: 880-14653-1**

**Laboratory: Eurofins Midland**

### Narrative

#### Job Narrative 880-14653-1

### Comments

No additional comments.

### Receipt

The samples were received on 5/10/2022 4:57 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3° C.

### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25305 and analytical batch 880-25307 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA-1 (0.5-1) (880-14653-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA-3 (1.5-2) (880-14653-13). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-1 (0-0.5)

Lab Sample ID: 880-14653-1

Date Collected: 05/10/22 10:34

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U F1      | 0.00202 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 12:12 | 1       |
| Toluene             | <0.00202 | U F1      | 0.00202 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 12:12 | 1       |
| Ethylbenzene        | <0.00202 | U F1      | 0.00202 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 12:12 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U F1      | 0.00403 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 12:12 | 1       |
| o-Xylene            | <0.00202 | U F1      | 0.00202 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 12:12 | 1       |
| Xylenes, Total      | <0.00403 | U F1      | 0.00403 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 12:12 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 12:12 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 12:12 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 12:09 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 12:09 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 12:09 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107       |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 12:09 | 1       |
| o-Terphenyl    | 110       |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 12:09 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 16000  | F1        | 253 |     | mg/Kg |   |          | 05/12/22 18:06 | 50      |

Client Sample ID: HA-1 (0.5-1)

Lab Sample ID: 880-14653-2

Date Collected: 05/10/22 10:35

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:35 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:35 | 1       |
| Ethylbenzene        | 0.00490  |           | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:35 | 1       |
| m-Xylene & p-Xylene | 0.0404   |           | 0.00399 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:35 | 1       |
| o-Xylene            | 0.0745   |           | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:35 | 1       |
| Xylenes, Total      | 0.115    |           | 0.00399 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:35 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 198       | S1+       | 70 - 130 | 05/11/22 08:21 | 05/11/22 13:35 | 1       |
| 1,4-Difluorobenzene (Surr)  | 82        |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 13:35 | 1       |

Eurofins Midland

## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-1 (0.5-1)

Lab Sample ID: 880-14653-2

Date Collected: 05/10/22 10:35

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 0.120  |           | 0.00399 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 2380   |           | 49.9 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 57.7      |           | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 13:14 | 1       |
| Diesel Range Organics (Over C10-C28) | 2320      |           | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 13:14 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 13:14 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 112       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 13:14 | 1       |
| o-Terphenyl                          | 113       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 13:14 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1530   |           | 25.0 |     | mg/Kg |   |          | 05/12/22 18:30 | 5       |

Client Sample ID: HA-1 (1.5-2)

Lab Sample ID: 880-14653-3

Date Collected: 05/10/22 10:36

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:55 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:55 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:55 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:55 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:55 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 13:55 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118       |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 13:55 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89        |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 13:55 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 582    |           | 50.0 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 13:35 | 1       |
| Diesel Range Organics (Over C10-C28) | 582    |           | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 13:35 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Client Sample ID: HA-1 (1.5-2)

Date Collected: 05/10/22 10:36

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-3

Matrix: Solid

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte                           | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 13:35 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 125       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 13:35 | 1       |
| o-Terphenyl                       | 130       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 13:35 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 196    |           | 5.00 |     | mg/Kg |   |          | 05/12/22 18:38 | 1       |

## Client Sample ID: HA-1 (2.5-3)

Date Collected: 05/10/22 10:37

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-4

Matrix: Solid

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:16 | 1       |
| Toluene                     | 0.0181    |           | 0.00201  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:16 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:16 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:16 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:16 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:16 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 124       |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 14:16 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 14:16 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 0.0181 |           | 0.00402 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 13:57 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 13:57 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 13:57 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 107       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 13:57 | 1       |
| o-Terphenyl                          | 109       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 13:57 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 56.2   |           | 4.95 |     | mg/Kg |   |          | 05/12/22 18:47 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-1 (3.5-4)

Lab Sample ID: 880-14653-5

Date Collected: 05/10/22 10:38

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:36 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:36 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:36 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:36 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:36 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:36 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 14:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 14:36 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 14:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 14:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 14:18 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 99        |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 14:18 | 1       |
| o-Terphenyl    | 103       |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 14:18 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 84.5   |           | 5.04 |     | mg/Kg |   |          | 05/12/22 18:55 | 1       |

Client Sample ID: HA-2 (0-0.5)

Lab Sample ID: 880-14653-6

Date Collected: 05/10/22 10:39

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:57 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:57 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:57 | 1       |
| m-Xylene & p-Xylene | <0.00404 | U         | 0.00404 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:57 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:57 | 1       |
| Xylenes, Total      | <0.00404 | U         | 0.00404 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 14:57 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 127       |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 14:57 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 14:57 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-2 (0-0.5)

Lab Sample ID: 880-14653-6

Date Collected: 05/10/22 10:39

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U         | 0.00404 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 14:40 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 14:40 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 14:40 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 106       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 14:40 | 1       |
| o-Terphenyl                          | 110       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 14:40 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 15400  |           | 249 |     | mg/Kg |   |          | 05/12/22 19:19 | 50      |

Client Sample ID: HA-2 (0.5-1)

Lab Sample ID: 880-14653-7

Date Collected: 05/10/22 10:40

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 15:17 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 15:17 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 15:17 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 15:17 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 15:17 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 15:17 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 119       |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 15:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89        |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 15:17 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 850    |           | 49.9 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 15:01 | 1       |
| Diesel Range Organics (Over C10-C28) | 850    |           | 49.9 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 15:01 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Client Sample ID: HA-2 (0.5-1)

Date Collected: 05/10/22 10:40

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-7

Matrix: Solid

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte                           | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 15:01 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 106       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 15:01 | 1       |
| o-Terphenyl                       | 115       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 15:01 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 7510   |           | 49.5 |     | mg/Kg |   |          | 05/12/22 19:28 | 10      |

## Client Sample ID: HA-2 (1.5-2)

Date Collected: 05/10/22 10:41

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-8

Matrix: Solid

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 16:40 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 16:40 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 16:40 | 1       |
| m-Xylene & p-Xylene         | <0.00404  | U         | 0.00404  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 16:40 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 16:40 | 1       |
| Xylenes, Total              | <0.00404  | U         | 0.00404  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 16:40 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 16:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 16:40 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U         | 0.00404 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 15:23 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 15:23 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 15:23 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 96        |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 15:23 | 1       |
| o-Terphenyl                          | 102       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 15:23 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 5200   |           | 49.9 |     | mg/Kg |   |          | 05/12/22 19:36 | 10      |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-2 (2.5-3)

Lab Sample ID: 880-14653-9

Date Collected: 05/10/22 10:42

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:00 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:00 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:00 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:00 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:00 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:00 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 17:00 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 17:00 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 15:45 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 15:45 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 15:45 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 95        |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 15:45 | 1       |
| o-Terphenyl    | 101       |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 15:45 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 3840   |           | 25.1 |     | mg/Kg |   |          | 05/12/22 19:44 | 5       |

Client Sample ID: HA-2 (3.5-4)

Lab Sample ID: 880-14653-10

Date Collected: 05/10/22 10:43

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:21 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:21 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:21 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:21 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:21 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:21 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 17:21 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 17:21 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-2 (3.5-4)

Lab Sample ID: 880-14653-10

Date Collected: 05/10/22 10:43

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 16:06 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 16:06 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 16:06 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 98        |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 16:06 | 1       |
| o-Terphenyl                          | 105       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 16:06 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1270   |           | 24.9 |     | mg/Kg |   |          | 05/12/22 19:52 | 5       |

Client Sample ID: HA-3 (0-0.5)

Lab Sample ID: 880-14653-11

Date Collected: 05/10/22 10:44

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | 0.00892   |           | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:41 | 1       |
| Toluene                     | 0.0179    |           | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:41 | 1       |
| Ethylbenzene                | 0.00254   |           | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:41 | 1       |
| m-Xylene & p-Xylene         | 0.0119    |           | 0.00400  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:41 | 1       |
| o-Xylene                    | 0.00253   |           | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:41 | 1       |
| Xylenes, Total              | 0.0144    |           | 0.00400  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 17:41 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 117       |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 17:41 | 1       |
| 1,4-Difluorobenzene (Surr)  | 81        |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 17:41 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 0.0438 |           | 0.00400 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 382    |           | 49.9 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 16:49 | 1       |
| Diesel Range Organics (Over C10-C28) | 382    |           | 49.9 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 16:49 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-3 (0-0.5)

Lab Sample ID: 880-14653-11

Date Collected: 05/10/22 10:44

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte                           | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 16:49 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 85        |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 16:49 | 1       |
| o-Terphenyl                       | 91        |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 16:49 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 15200  | F1        | 251 |     | mg/Kg |   |          | 05/12/22 20:00 | 50      |

Client Sample ID: HA-3 (0.5-1)

Lab Sample ID: 880-14653-12

Date Collected: 05/10/22 10:45

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:02 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:02 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:02 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:02 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:02 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:02 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 115       |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 18:02 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89        |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 18:02 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 920    |           | 49.9 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 17:11 | 1       |
| Diesel Range Organics (Over C10-C28) | 920       |           | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 17:11 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 17:11 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 117       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 17:11 | 1       |
| o-Terphenyl                          | 125       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 17:11 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1840   |           | 25.0 |     | mg/Kg |   |          | 05/12/22 20:25 | 5       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-3 (1.5-2)

Lab Sample ID: 880-14653-13

Date Collected: 05/10/22 10:46

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:23 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:23 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:23 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:23 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:23 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:23 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 138       | S1+       | 70 - 130 | 05/11/22 08:21 | 05/11/22 18:23 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 18:23 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 73.9   |           | 49.8 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 17:32 | 1       |
| Diesel Range Organics (Over C10-C28) | 73.9   |           | 49.8 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 17:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 17:32 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 102       |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 17:32 | 1       |
| o-Terphenyl    | 109       |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 17:32 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1680   |           | 24.9 |     | mg/Kg |   |          | 05/12/22 20:33 | 5       |

Client Sample ID: HA-3 (2.5-3)

Lab Sample ID: 880-14653-14

Date Collected: 05/10/22 10:47

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:43 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:43 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:43 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:43 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:43 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 18:43 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 18:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 18:43 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-3 (2.5-3)

Lab Sample ID: 880-14653-14

Date Collected: 05/10/22 10:47

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 17:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 17:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 17:54 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 101       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 17:54 | 1       |
| o-Terphenyl                          | 109       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 17:54 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1490   |           | 25.2 |     | mg/Kg |   |          | 05/12/22 20:58 | 5       |

Client Sample ID: HA-3 (3.5-4)

Lab Sample ID: 880-14653-15

Date Collected: 05/10/22 10:48

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:04 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:04 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:04 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:04 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:04 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:04 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 19:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 |     |       |   | 05/11/22 08:21 | 05/11/22 19:04 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 05/11/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 18:16 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 18:16 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-3 (3.5-4)

Lab Sample ID: 880-14653-15

Date Collected: 05/10/22 10:48

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte                           | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.8  | U         | 49.8 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 18:16 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100       |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 18:16 | 1       |
| o-Terphenyl    | 106       |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 18:16 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1420   |           | 25.1 |     | mg/Kg |   |          | 05/12/22 21:06 | 5       |

# Surrogate Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                    |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|--------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID      | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-14653-1        | HA-1 (0-0.5)           | 112                                            | 95                |
| 880-14653-1 MS     | HA-1 (0-0.5)           | 111                                            | 97                |
| 880-14653-1 MSD    | HA-1 (0-0.5)           | 99                                             | 91                |
| 880-14653-2        | HA-1 (0.5-1)           | 198 S1+                                        | 82                |
| 880-14653-3        | HA-1 (1.5-2)           | 118                                            | 89                |
| 880-14653-4        | HA-1 (2.5-3)           | 124                                            | 93                |
| 880-14653-5        | HA-1 (3.5-4)           | 116                                            | 94                |
| 880-14653-6        | HA-2 (0-0.5)           | 127                                            | 91                |
| 880-14653-7        | HA-2 (0.5-1)           | 119                                            | 89                |
| 880-14653-8        | HA-2 (1.5-2)           | 112                                            | 93                |
| 880-14653-9        | HA-2 (2.5-3)           | 107                                            | 91                |
| 880-14653-10       | HA-2 (3.5-4)           | 113                                            | 93                |
| 880-14653-11       | HA-3 (0-0.5)           | 117                                            | 81                |
| 880-14653-12       | HA-3 (0.5-1)           | 115                                            | 89                |
| 880-14653-13       | HA-3 (1.5-2)           | 138 S1+                                        | 93                |
| 880-14653-14       | HA-3 (2.5-3)           | 116                                            | 93                |
| 880-14653-15       | HA-3 (3.5-4)           | 116                                            | 93                |
| LCS 880-25305/1-A  | Lab Control Sample     | 106                                            | 95                |
| LCSD 880-25305/2-A | Lab Control Sample Dup | 105                                            | 95                |
| MB 880-25305/5-A   | Method Blank           | 104                                            | 89                |

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                    |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|--------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID      | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-14653-1        | HA-1 (0-0.5)           | 107                                            | 110               |
| 880-14653-1 MS     | HA-1 (0-0.5)           | 95                                             | 94                |
| 880-14653-1 MSD    | HA-1 (0-0.5)           | 98                                             | 94                |
| 880-14653-2        | HA-1 (0.5-1)           | 112                                            | 113               |
| 880-14653-3        | HA-1 (1.5-2)           | 125                                            | 130               |
| 880-14653-4        | HA-1 (2.5-3)           | 107                                            | 109               |
| 880-14653-5        | HA-1 (3.5-4)           | 99                                             | 103               |
| 880-14653-6        | HA-2 (0-0.5)           | 106                                            | 110               |
| 880-14653-7        | HA-2 (0.5-1)           | 106                                            | 115               |
| 880-14653-8        | HA-2 (1.5-2)           | 96                                             | 102               |
| 880-14653-9        | HA-2 (2.5-3)           | 95                                             | 101               |
| 880-14653-10       | HA-2 (3.5-4)           | 98                                             | 105               |
| 880-14653-11       | HA-3 (0-0.5)           | 85                                             | 91                |
| 880-14653-12       | HA-3 (0.5-1)           | 117                                            | 125               |
| 880-14653-13       | HA-3 (1.5-2)           | 102                                            | 109               |
| 880-14653-14       | HA-3 (2.5-3)           | 101                                            | 109               |
| 880-14653-15       | HA-3 (3.5-4)           | 100                                            | 106               |
| LCS 880-25314/2-A  | Lab Control Sample     | 95                                             | 96                |
| LCSD 880-25314/3-A | Lab Control Sample Dup | 90                                             | 91                |

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Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1

SDG: Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

|                      |                  | Percent Surrogate Recovery (Acceptance Limits) |                   |
|----------------------|------------------|------------------------------------------------|-------------------|
| Lab Sample ID        | Client Sample ID | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| MB 880-25314/1-A     | Method Blank     | 105                                            | 110               |
| Surrogate Legend     |                  |                                                |                   |
| 1CO = 1-Chlorooctane |                  |                                                |                   |
| OTPH = o-Terphenyl   |                  |                                                |                   |

## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25305/5-A

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25305

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89           |              | 70 - 130 | 05/11/22 08:21 | 05/11/22 11:51 | 1       |

Lab Sample ID: LCS 880-25305/1-A

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25305

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09850    |               | mg/Kg |   | 99   | 70 - 130    |
| Toluene             | 0.100       | 0.1068     |               | mg/Kg |   | 107  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1095     |               | mg/Kg |   | 110  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2241     |               | mg/Kg |   | 112  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1114     |               | mg/Kg |   | 111  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 106           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

Lab Sample ID: LCSD 880-25305/2-A

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25305

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09103     |                | mg/Kg |   | 91   | 70 - 130    | 8   | 35        |
| Toluene             | 0.100       | 0.09804     |                | mg/Kg |   | 98   | 70 - 130    | 9   | 35        |
| Ethylbenzene        | 0.100       | 0.1019      |                | mg/Kg |   | 102  | 70 - 130    | 7   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2094      |                | mg/Kg |   | 105  | 70 - 130    | 7   | 35        |
| o-Xylene            | 0.100       | 0.1045      |                | mg/Kg |   | 104  | 70 - 130    | 6   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 105            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95             |                | 70 - 130 |

Lab Sample ID: 880-14653-1 MS

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: HA-1 (0-0.5)

Prep Type: Total/NA

Prep Batch: 25305

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00202      | U F1             | 0.0996      | 0.06771   | F1           | mg/Kg |   | 68   | 70 - 130    |
| Toluene | <0.00202      | U F1             | 0.0996      | 0.06501   | F1           | mg/Kg |   | 65   | 70 - 130    |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14653-1 MS

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: HA-1 (0-0.5)

Prep Type: Total/NA

Prep Batch: 25305

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00202      | U F1             | 0.0996      | 0.06108   | F1           | mg/Kg |   | 61   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00403      | U F1             | 0.199       | 0.1934    |              | mg/Kg |   | 97   | 70 - 130    |
| o-Xylene            | <0.00202      | U F1             | 0.0996      | 0.06101   | F1           | mg/Kg |   | 61   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 111          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 97           |              | 70 - 130 |

Lab Sample ID: 880-14653-1 MSD

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: HA-1 (0-0.5)

Prep Type: Total/NA

Prep Batch: 25305

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------|
| Benzene             | <0.00202      | U F1             | 0.101       | <0.00202   | U F1          | mg/Kg |   | 0    | 70 - 130    | NC  | 35    |
| Toluene             | <0.00202      | U F1             | 0.101       | <0.00202   | U F1          | mg/Kg |   | 0    | 70 - 130    | NC  | 35    |
| Ethylbenzene        | <0.00202      | U F1             | 0.101       | <0.00202   | U F1          | mg/Kg |   | 0    | 70 - 130    | NC  | 35    |
| m-Xylene & p-Xylene | <0.00403      | U F1             | 0.202       | <0.00404   | U F1          | mg/Kg |   | 0    | 70 - 130    | NC  | 35    |
| o-Xylene            | <0.00202      | U F1             | 0.101       | <0.00202   | U F1          | mg/Kg |   | 0    | 70 - 130    | NC  | 35    |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 99            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 91            |               | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-25314/1-A

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25314

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 10:55 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 10:55 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 10:55 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 105          |              | 70 - 130 | 05/11/22 09:29 | 05/11/22 10:55 | 1       |
| o-Terphenyl    | 110          |              | 70 - 130 | 05/11/22 09:29 | 05/11/22 10:55 | 1       |

Lab Sample ID: LCS 880-25314/2-A

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25314

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 799.6      |               | mg/Kg |   | 80   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 974.7      |               | mg/Kg |   | 97   | 70 - 130    |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-25314/2-A

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25314

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 95        |           | 70 - 130 |
| o-Terphenyl    | 96        |           | 70 - 130 |

Lab Sample ID: LCSD 880-25314/3-A

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25314

| Analyte                              |  |  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|--|--|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 |  |  | 1000           | 751.7          |                   | mg/Kg |   | 75   | 70 - 130       | 6   | 20           |
| Diesel Range Organics (Over C10-C28) |  |  | 1000           | 910.9          |                   | mg/Kg |   | 91   | 70 - 130       | 7   | 20           |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 90        |           | 70 - 130 |
| o-Terphenyl    | 91        |           | 70 - 130 |

Lab Sample ID: 880-14653-1 MS

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: HA-1 (0-0.5)

Prep Type: Total/NA

Prep Batch: 25314

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |  |  |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|--|--|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                   | 1000           | 892.0        |                 | mg/Kg |   | 86   | 70 - 130       |  |  |
| Diesel Range Organics (Over C10-C28) | <50.0            | U                   | 1000           | 925.7        |                 | mg/Kg |   | 90   | 70 - 130       |  |  |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 95        |           | 70 - 130 |
| o-Terphenyl    | 94        |           | 70 - 130 |

Lab Sample ID: 880-14653-1 MSD

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: HA-1 (0-0.5)

Prep Type: Total/NA

Prep Batch: 25314

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                   | 998            | 881.1         |                  | mg/Kg |   | 85   | 70 - 130       | 1   | 20           |
| Diesel Range Organics (Over C10-C28) | <50.0            | U                   | 998            | 935.7         |                  | mg/Kg |   | 91   | 70 - 130       | 1   | 20           |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 98        |           | 70 - 130 |
| o-Terphenyl    | 94        |           | 70 - 130 |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25327/1-A

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 |     | mg/Kg |   |          | 05/12/22 17:41 | 1       |

Lab Sample ID: LCS 880-25327/2-A

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 260.5      |               | mg/Kg |   | 104  | 90 - 110    |

Lab Sample ID: LCSD 880-25327/3-A

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 261.2       |                | mg/Kg |   | 104  | 90 - 110    | 0   | 20        |

Lab Sample ID: 880-14653-1 MS

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: HA-1 (0-0.5)

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 16000         | F1               | 12600       | 31800     | F1           | mg/Kg |   | 125  | 90 - 110    |

Lab Sample ID: 880-14653-1 MSD

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: HA-1 (0-0.5)

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 16000         | F1               | 12600       | 31710      | F1            | mg/Kg |   | 124  | 90 - 110    | 0   | 20        |

Lab Sample ID: 880-14653-11 MS

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: HA-3 (0-0.5)

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 15200         | F1               | 12600       | 29750     | F1           | mg/Kg |   | 116  | 90 - 110    |

Lab Sample ID: 880-14653-11 MSD

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: HA-3 (0-0.5)

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 15200         | F1               | 12600       | 29730      | F1            | mg/Kg |   | 115  | 90 - 110    | 0   | 20        |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## GC VOA

## Prep Batch: 25305

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14653-1        | HA-1 (0-0.5)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-2        | HA-1 (0.5-1)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-3        | HA-1 (1.5-2)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-4        | HA-1 (2.5-3)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-5        | HA-1 (3.5-4)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-6        | HA-2 (0-0.5)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-7        | HA-2 (0.5-1)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-8        | HA-2 (1.5-2)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-9        | HA-2 (2.5-3)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-10       | HA-2 (3.5-4)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-11       | HA-3 (0-0.5)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-12       | HA-3 (0.5-1)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-13       | HA-3 (1.5-2)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-14       | HA-3 (2.5-3)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-15       | HA-3 (3.5-4)           | Total/NA  | Solid  | 5035   |            |
| MB 880-25305/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-25305/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25305/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-14653-1 MS     | HA-1 (0-0.5)           | Total/NA  | Solid  | 5035   |            |
| 880-14653-1 MSD    | HA-1 (0-0.5)           | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 25307

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14653-1        | HA-1 (0-0.5)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-2        | HA-1 (0.5-1)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-3        | HA-1 (1.5-2)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-4        | HA-1 (2.5-3)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-5        | HA-1 (3.5-4)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-6        | HA-2 (0-0.5)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-7        | HA-2 (0.5-1)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-8        | HA-2 (1.5-2)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-9        | HA-2 (2.5-3)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-10       | HA-2 (3.5-4)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-11       | HA-3 (0-0.5)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-12       | HA-3 (0.5-1)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-13       | HA-3 (1.5-2)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-14       | HA-3 (2.5-3)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-15       | HA-3 (3.5-4)           | Total/NA  | Solid  | 8021B  | 25305      |
| MB 880-25305/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 25305      |
| LCS 880-25305/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25305      |
| LCSD 880-25305/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-1 MS     | HA-1 (0-0.5)           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-1 MSD    | HA-1 (0-0.5)           | Total/NA  | Solid  | 8021B  | 25305      |

## Analysis Batch: 25368

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-14653-1   | HA-1 (0-0.5)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-2   | HA-1 (0.5-1)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-3   | HA-1 (1.5-2)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-4   | HA-1 (2.5-3)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-5   | HA-1 (3.5-4)     | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## GC VOA (Continued)

## Analysis Batch: 25368 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-14653-6   | HA-2 (0-0.5)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-7   | HA-2 (0.5-1)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-8   | HA-2 (1.5-2)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-9   | HA-2 (2.5-3)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-10  | HA-2 (3.5-4)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-11  | HA-3 (0-0.5)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-12  | HA-3 (0.5-1)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-13  | HA-3 (1.5-2)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-14  | HA-3 (2.5-3)     | Total/NA  | Solid  | Total BTEX |            |
| 880-14653-15  | HA-3 (3.5-4)     | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 25314

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-14653-1        | HA-1 (0-0.5)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-2        | HA-1 (0.5-1)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-3        | HA-1 (1.5-2)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-4        | HA-1 (2.5-3)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-5        | HA-1 (3.5-4)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-6        | HA-2 (0-0.5)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-7        | HA-2 (0.5-1)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-8        | HA-2 (1.5-2)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-9        | HA-2 (2.5-3)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-10       | HA-2 (3.5-4)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-11       | HA-3 (0-0.5)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-12       | HA-3 (0.5-1)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-13       | HA-3 (1.5-2)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-14       | HA-3 (2.5-3)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-15       | HA-3 (3.5-4)           | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-25314/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-25314/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-25314/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-1 MS     | HA-1 (0-0.5)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-1 MSD    | HA-1 (0-0.5)           | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 25319

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 880-14653-1   | HA-1 (0-0.5)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-2   | HA-1 (0.5-1)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-3   | HA-1 (1.5-2)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-4   | HA-1 (2.5-3)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-5   | HA-1 (3.5-4)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-6   | HA-2 (0-0.5)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-7   | HA-2 (0.5-1)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-8   | HA-2 (1.5-2)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-9   | HA-2 (2.5-3)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-10  | HA-2 (3.5-4)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-11  | HA-3 (0-0.5)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-12  | HA-3 (0.5-1)     | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-13  | HA-3 (1.5-2)     | Total/NA  | Solid  | 8015B NM | 25314      |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## Analysis Batch: 25319 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14653-14       | HA-3 (2.5-3)           | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-15       | HA-3 (3.5-4)           | Total/NA  | Solid  | 8015B NM | 25314      |
| MB 880-25314/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 25314      |
| LCS 880-25314/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 25314      |
| LCSD 880-25314/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-1 MS     | HA-1 (0-0.5)           | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-1 MSD    | HA-1 (0-0.5)           | Total/NA  | Solid  | 8015B NM | 25314      |

## Analysis Batch: 25386

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-14653-1   | HA-1 (0-0.5)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-2   | HA-1 (0.5-1)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-3   | HA-1 (1.5-2)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-4   | HA-1 (2.5-3)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-5   | HA-1 (3.5-4)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-6   | HA-2 (0-0.5)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-7   | HA-2 (0.5-1)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-8   | HA-2 (1.5-2)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-9   | HA-2 (2.5-3)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-10  | HA-2 (3.5-4)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-11  | HA-3 (0-0.5)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-12  | HA-3 (0.5-1)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-13  | HA-3 (1.5-2)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-14  | HA-3 (2.5-3)     | Total/NA  | Solid  | 8015 NM |            |
| 880-14653-15  | HA-3 (3.5-4)     | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 25327

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14653-1        | HA-1 (0-0.5)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-2        | HA-1 (0.5-1)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-3        | HA-1 (1.5-2)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-4        | HA-1 (2.5-3)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-5        | HA-1 (3.5-4)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-6        | HA-2 (0-0.5)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-7        | HA-2 (0.5-1)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-8        | HA-2 (1.5-2)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-9        | HA-2 (2.5-3)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-10       | HA-2 (3.5-4)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-11       | HA-3 (0-0.5)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-12       | HA-3 (0.5-1)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-13       | HA-3 (1.5-2)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-14       | HA-3 (2.5-3)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-15       | HA-3 (3.5-4)           | Soluble   | Solid  | DI Leach |            |
| MB 880-25327/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-25327/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-25327/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-14653-1 MS     | HA-1 (0-0.5)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-1 MSD    | HA-1 (0-0.5)           | Soluble   | Solid  | DI Leach |            |
| 880-14653-11 MS    | HA-3 (0-0.5)           | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## HPLC/IC (Continued)

## Leach Batch: 25327 (Continued)

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|------------------|------------------|-----------|--------|----------|------------|
| 880-14653-11 MSD | HA-3 (0-0.5)     | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 25484

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14653-1        | HA-1 (0-0.5)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-2        | HA-1 (0.5-1)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-3        | HA-1 (1.5-2)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-4        | HA-1 (2.5-3)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-5        | HA-1 (3.5-4)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-6        | HA-2 (0-0.5)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-7        | HA-2 (0.5-1)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-8        | HA-2 (1.5-2)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-9        | HA-2 (2.5-3)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-10       | HA-2 (3.5-4)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-11       | HA-3 (0-0.5)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-12       | HA-3 (0.5-1)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-13       | HA-3 (1.5-2)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-14       | HA-3 (2.5-3)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-15       | HA-3 (3.5-4)           | Soluble   | Solid  | 300.0  | 25327      |
| MB 880-25327/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 25327      |
| LCS 880-25327/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 25327      |
| LCSD 880-25327/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-1 MS     | HA-1 (0-0.5)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-1 MSD    | HA-1 (0-0.5)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-11 MS    | HA-3 (0-0.5)           | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-11 MSD   | HA-3 (0-0.5)           | Soluble   | Solid  | 300.0  | 25327      |

## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-1 (0-0.5)

Lab Sample ID: 880-14653-1

Date Collected: 05/10/22 10:34

Matrix: Solid

Date Received: 05/10/22 16:57

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 12:12       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 12:09       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 50         |                |              | 25484        | 05/12/22 18:06       | CH      | XEN MID |

Client Sample ID: HA-1 (0.5-1)

Lab Sample ID: 880-14653-2

Date Collected: 05/10/22 10:35

Matrix: Solid

Date Received: 05/10/22 16:57

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 13:35       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 13:14       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 25484        | 05/12/22 18:30       | CH      | XEN MID |

Client Sample ID: HA-1 (1.5-2)

Lab Sample ID: 880-14653-3

Date Collected: 05/10/22 10:36

Matrix: Solid

Date Received: 05/10/22 16:57

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 13:55       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 13:35       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 25484        | 05/12/22 18:38       | CH      | XEN MID |

Client Sample ID: HA-1 (2.5-3)

Lab Sample ID: 880-14653-4

Date Collected: 05/10/22 10:37

Matrix: Solid

Date Received: 05/10/22 16:57

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 14:16       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Client Sample ID: HA-1 (2.5-3)

Date Collected: 05/10/22 10:37

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 13:57       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 25484        | 05/12/22 18:47       | CH      | XEN MID |

## Client Sample ID: HA-1 (3.5-4)

Date Collected: 05/10/22 10:38

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-5

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 14:36       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 14:18       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 25484        | 05/12/22 18:55       | CH      | XEN MID |

## Client Sample ID: HA-2 (0-0.5)

Date Collected: 05/10/22 10:39

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-6

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.95 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 14:57       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 14:40       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 50         |                |              | 25484        | 05/12/22 19:19       | CH      | XEN MID |

## Client Sample ID: HA-2 (0.5-1)

Date Collected: 05/10/22 10:40

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 15:17       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 15:01       | SM      | XEN MID |

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## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Client Sample ID: HA-2 (0.5-1)

Date Collected: 05/10/22 10:40

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 25484        | 05/12/22 19:28       | CH      | XEN MID |

## Client Sample ID: HA-2 (1.5-2)

Date Collected: 05/10/22 10:41

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-8

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.95 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 16:40       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 15:23       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 25484        | 05/12/22 19:36       | CH      | XEN MID |

## Client Sample ID: HA-2 (2.5-3)

Date Collected: 05/10/22 10:42

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-9

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 17:00       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 15:45       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 25484        | 05/12/22 19:44       | CH      | XEN MID |

## Client Sample ID: HA-2 (3.5-4)

Date Collected: 05/10/22 10:43

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14653-10

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 17:21       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 16:06       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 25484        | 05/12/22 19:52       | CH      | XEN MID |

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## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Client Sample ID: HA-3 (0-0.5)

Lab Sample ID: 880-14653-11

Date Collected: 05/10/22 10:44

Matrix: Solid

Date Received: 05/10/22 16:57

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 17:41       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 16:49       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 50         |                |              | 25484        | 05/12/22 20:00       | CH      | XEN MID |

Client Sample ID: HA-3 (0.5-1)

Lab Sample ID: 880-14653-12

Date Collected: 05/10/22 10:45

Matrix: Solid

Date Received: 05/10/22 16:57

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 18:02       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 17:11       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 25484        | 05/12/22 20:25       | CH      | XEN MID |

Client Sample ID: HA-3 (1.5-2)

Lab Sample ID: 880-14653-13

Date Collected: 05/10/22 10:46

Matrix: Solid

Date Received: 05/10/22 16:57

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 18:23       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 17:32       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 25484        | 05/12/22 20:33       | CH      | XEN MID |

Client Sample ID: HA-3 (2.5-3)

Lab Sample ID: 880-14653-14

Date Collected: 05/10/22 10:47

Matrix: Solid

Date Received: 05/10/22 16:57

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 18:43       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

## Client Sample ID: HA-3 (2.5-3)

## Lab Sample ID: 880-14653-14

Date Collected: 05/10/22 10:47

Matrix: Solid

Date Received: 05/10/22 16:57

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 17:54       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 25484        | 05/12/22 20:58       | CH      | XEN MID |

## Client Sample ID: HA-3 (3.5-4)

## Lab Sample ID: 880-14653-15

Date Collected: 05/10/22 10:48

Matrix: Solid

Date Received: 05/10/22 16:57

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 19:04       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25368        | 05/11/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25386        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 18:16       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 25484        | 05/12/22 21:06       | CH      | XEN MID |

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------|
| Texas                                                                                                                                                                                                 | NELAP       | T104704400-21-22      | 06-30-22        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte         |
| 8015 NM                                                                                                                                                                                               |             | Solid                 | Total TPH       |
| Total BTEX                                                                                                                                                                                            |             | Solid                 | Total BTEX      |

## Method Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

## Sample Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14653-1  
SDG: Eddy Co, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 880-14653-1   | HA-1 (0-0.5)     | Solid  | 05/10/22 10:34 | 05/10/22 16:57 |
| 880-14653-2   | HA-1 (0.5-1)     | Solid  | 05/10/22 10:35 | 05/10/22 16:57 |
| 880-14653-3   | HA-1 (1.5-2)     | Solid  | 05/10/22 10:36 | 05/10/22 16:57 |
| 880-14653-4   | HA-1 (2.5-3)     | Solid  | 05/10/22 10:37 | 05/10/22 16:57 |
| 880-14653-5   | HA-1 (3.5-4)     | Solid  | 05/10/22 10:38 | 05/10/22 16:57 |
| 880-14653-6   | HA-2 (0-0.5)     | Solid  | 05/10/22 10:39 | 05/10/22 16:57 |
| 880-14653-7   | HA-2 (0.5-1)     | Solid  | 05/10/22 10:40 | 05/10/22 16:57 |
| 880-14653-8   | HA-2 (1.5-2)     | Solid  | 05/10/22 10:41 | 05/10/22 16:57 |
| 880-14653-9   | HA-2 (2.5-3)     | Solid  | 05/10/22 10:42 | 05/10/22 16:57 |
| 880-14653-10  | HA-2 (3.5-4)     | Solid  | 05/10/22 10:43 | 05/10/22 16:57 |
| 880-14653-11  | HA-3 (0-0.5)     | Solid  | 05/10/22 10:44 | 05/10/22 16:57 |
| 880-14653-12  | HA-3 (0.5-1)     | Solid  | 05/10/22 10:45 | 05/10/22 16:57 |
| 880-14653-13  | HA-3 (1.5-2)     | Solid  | 05/10/22 10:46 | 05/10/22 16:57 |
| 880-14653-14  | HA-3 (2.5-3)     | Solid  | 05/10/22 10:47 | 05/10/22 16:57 |
| 880-14653-15  | HA-3 (3.5-4)     | Solid  | 05/10/22 10:48 | 05/10/22 16:57 |



Electromagnetic Interference  
Xenon

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1286  
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3189

## Chain of Custody

**Work Order No.:**

14653

Page 1 of 1  
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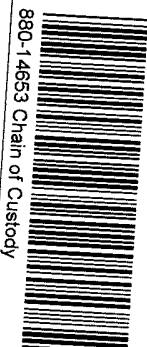
|                 |                      |                        |                       |
|-----------------|----------------------|------------------------|-----------------------|
| Project Manager | Ashton Thielke       | Bill to (if different) | Devon Energy          |
| Company Name    | Earth Systems R&R    | Company Name           |                       |
| Address         | 4115 South C R 1297  | Address                |                       |
| City, State ZIP | Midland, Texas 79765 | City, State ZIP        |                       |
| Phone           |                      | Email                  | athielke@earthsys.net |

| Work Order Comments |                                  |                                    |                                      |                                                                 |
|---------------------|----------------------------------|------------------------------------|--------------------------------------|-----------------------------------------------------------------|
| Program             | UST/PST <input type="checkbox"/> | PRF <input type="checkbox"/>       | Brownfields <input type="checkbox"/> | RRQ <input type="checkbox"/> Superfund <input type="checkbox"/> |
| State of Project    |                                  |                                    |                                      |                                                                 |
| Reporting Level II  | <input type="checkbox"/>         | Level III <input type="checkbox"/> | PST/UST <input type="checkbox"/>     | TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables        | EDD <input type="checkbox"/>     | ADAPT <input type="checkbox"/>     | Other                                |                                                                 |

| Project Name             |                                            | Ross Draw Unit #75                                           |                                            | Turn Around  |                                            | ANALYSIS REQUEST     |                 |   |  |  |  |  |  |                                                                 |                                               | Preservative Codes                |  |
|--------------------------|--------------------------------------------|--------------------------------------------------------------|--------------------------------------------|--------------|--------------------------------------------|----------------------|-----------------|---|--|--|--|--|--|-----------------------------------------------------------------|-----------------------------------------------|-----------------------------------|--|
| Project Number           | 1094                                       | <input type="checkbox"/> Routine                             | <input checked="" type="checkbox"/> Rush   | Pras. Code   |                                            |                      |                 |   |  |  |  |  |  |                                                                 | None NO                                       | DI Water H <sub>2</sub> O         |  |
| Project Location         | Eddy Co. NM                                | Due Date                                                     | 10/04                                      |              |                                            |                      |                 |   |  |  |  |  |  |                                                                 | Cool Cool                                     | MeOH Me                           |  |
| Sampler's Name           | Ashton Thielke                             | TAT starts the day received by the lab if received by 4 30pm |                                            |              |                                            |                      |                 |   |  |  |  |  |  |                                                                 | HCL HC                                        | HNO <sub>3</sub> HN               |  |
| PO #                     |                                            |                                                              |                                            |              |                                            |                      |                 |   |  |  |  |  |  |                                                                 | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> | NaOH Na                           |  |
| <b>SAMPLE RECEIPT</b>    |                                            | Temp Blank                                                   | Yes <input checked="" type="checkbox"/> No | Wet Ice      | Yes <input checked="" type="checkbox"/> No |                      |                 |   |  |  |  |  |  |                                                                 |                                               | H <sub>3</sub> PO <sub>4</sub> HP |  |
| Samples Received Intact: | Yes <input checked="" type="checkbox"/> No | Thermometer ID                                               | 1126                                       |              |                                            |                      |                 |   |  |  |  |  |  | NaHSO <sub>4</sub> NABIS                                        |                                               |                                   |  |
| Cooler Custody Seals     | Yes <input checked="" type="checkbox"/> No | Correction Factor                                            | -0.02                                      |              |                                            |                      |                 |   |  |  |  |  |  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |                                               |                                   |  |
| Sample Custody Seals     | Yes <input checked="" type="checkbox"/> No | Temperature Reading                                          | 1.5                                        |              |                                            |                      |                 |   |  |  |  |  |  | Zn Acetate+NaOH Zn                                              |                                               |                                   |  |
| Total Containers         |                                            | Corrected Temperature                                        | 1.3                                        |              |                                            |                      |                 |   |  |  |  |  |  | NaOH+Ascorbic Acid SAPC                                         |                                               |                                   |  |
| Sample Identification    |                                            | Matrix                                                       | Date Sampled                               | Time Sampled | Depth                                      | Grab/ # of Comp Cont | Sample Comments |   |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-1 (0-0 5)             | S                                          | 5/10/2022                                                    | 1034                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-1 (0 5-1)             | S                                          | 5/10/2022                                                    | 1035                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-1 (1 5-2)             | S                                          | 5/10/2022                                                    | 1036                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-1 (2 5-3)             | S                                          | 5/10/2022                                                    | 1037                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-1 (3 5-4)             | S                                          | 5/10/2022                                                    | 1038                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-2 (0-0 5)             | S                                          | 5/10/2022                                                    | 1039                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-2 (0 5-1)             | S                                          | 5/10/2022                                                    | 1040                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-2 (1 5-2)             | S                                          | 5/10/2022                                                    | 1041                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-2 (2 5-3)             | S                                          | 5/10/2022                                                    | 1042                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-2 (3 5-4)             | S                                          | 5/10/2022                                                    | 1043                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |
| HA-3 (0-0 5)             | S                                          | 5/10/2022                                                    | 1044                                       |              | Grab/ 1                                    | X                    | X               | X |  |  |  |  |  |                                                                 |                                               |                                   |  |



880-14653 Chain of Custody



880-14653 Chain of Custody

**Total 200.7 / 6010      200.8 / 6020:**

8RCRA 13PPM T

Circle Method(s) and Metal(s) to be analyzed

**TCLP / SPLP 6010**

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| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| 1 <i>[Signature]</i>        | <i>[Signature]</i>      | 5/16/22   | 2                           |                         |           |
| 3                           |                         |           | 4                           |                         |           |
| 5                           |                         | 1057      | 6                           |                         |           |



Employment  
Xenico

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El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

## Chain of Custody

**Work Order No.**

14653

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|                 |                     |                         |                       |
|-----------------|---------------------|-------------------------|-----------------------|
| Project Manager | Ashtion Thielke     | Bill to: (if different) | Devon Energy          |
| Company Name    | Earth Systems R&R   | Company Name            |                       |
| Address         | 4115 South C R 1297 | Address                 |                       |
| City/State/ZIP  | Midland Texas 79765 | City/State/ZIP          |                       |
| Phone           |                     | Email                   | athielke@earthsys.net |

**Work Order Comments**

Program: UST/PST ☐ PRF ☐ Brownfields ☐ RRC ☐ Superfund ☐  
State of Project.

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐  
Deliverables EDD ☐ ADAPT ☐ Other ☐

|                                               |                                                               |                                                                              |                  |                                                                             |
|-----------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------|
| <b>Project Name</b>                           | Ross Draw Unit #75                                            | <b>Turn Around</b>                                                           | 304              |                                                                             |
| <b>Project Number</b>                         | 1094                                                          | <input type="checkbox"/> Routine<br><input checked="" type="checkbox"/> Rush |                  |                                                                             |
| <b>Project Location</b>                       | Eddy Co. NM                                                   | <b>Due Date</b>                                                              | 1/26/99          |                                                                             |
| <b>Sampler's Name</b>                         | Ashton Thielke                                                | TAT starts the day received by the lab, if received by 4:30pm                |                  |                                                                             |
| <b>PO #:</b>                                  |                                                               |                                                                              |                  |                                                                             |
| <b>SAMPLE RECEIPT</b>                         | <b>Temp Blank.</b>                                            | <b>Yes</b> <input checked="" type="radio"/> <b>No</b> <input type="radio"/>  | <b>Wet Ice</b>   | <b>Yes</b> <input checked="" type="radio"/> <b>No</b> <input type="radio"/> |
| <b>Samples Received Intact:</b>               | Yes <input checked="" type="radio"/> No <input type="radio"/> | <b>Thermometer ID</b>                                                        |                  | TS8                                                                         |
| <b>Cooler Custody Seals.</b>                  | Yes <input checked="" type="radio"/> No <input type="radio"/> | <b>Correction Factor</b>                                                     |                  |                                                                             |
| <b>Sample Custody Seals</b>                   | Yes <input checked="" type="radio"/> No <input type="radio"/> | <b>Temperature Reading</b>                                                   |                  | 1.3                                                                         |
| <b>Total Containers</b>                       |                                                               | <b>Corrected Temperature:</b>                                                |                  | 1.3                                                                         |
| <b>Parameters</b>                             |                                                               |                                                                              |                  |                                                                             |
| <b>Pris. Code</b>                             |                                                               |                                                                              |                  |                                                                             |
|                                               |                                                               |                                                                              |                  |                                                                             |
| (M 300.0)                                     |                                                               |                                                                              |                  |                                                                             |
| 15M (GRO + DRO + MRO))                        |                                                               |                                                                              |                  |                                                                             |
| D21B                                          |                                                               |                                                                              |                  |                                                                             |
| <b>ANALYSIS REQUEST</b>                       |                                                               |                                                                              |                  |                                                                             |
|                                               |                                                               |                                                                              |                  |                                                                             |
|                                               |                                                               |                                                                              |                  |                                                                             |
|                                               |                                                               |                                                                              |                  |                                                                             |
|                                               |                                                               |                                                                              |                  |                                                                             |
|                                               |                                                               |                                                                              |                  |                                                                             |
|                                               |                                                               |                                                                              |                  |                                                                             |
| <b>Preservative Codes</b>                     |                                                               |                                                                              |                  |                                                                             |
| None                                          | NO                                                            | DI Water                                                                     | H <sub>2</sub> O |                                                                             |
| Cool                                          | Cool                                                          | MeOH                                                                         | Me               |                                                                             |
| HCL                                           | HC                                                            | HNO <sub>3</sub>                                                             | HN               |                                                                             |
| H <sub>2</sub> SO <sub>4</sub>                | H <sub>2</sub>                                                | NaOH                                                                         | Na               |                                                                             |
| H <sub>3</sub> PO <sub>4</sub>                | HP                                                            |                                                                              |                  |                                                                             |
| NaHSO <sub>4</sub>                            | NABIS                                                         |                                                                              |                  |                                                                             |
| Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | NaSO <sub>3</sub>                                             |                                                                              |                  |                                                                             |
| Zn Acetate+NaOH                               | Zn                                                            |                                                                              |                  |                                                                             |
| NaOH+Ascorbic Acid                            | SAPC                                                          |                                                                              |                  |                                                                             |

[illegible]

| Total            | 200.7 / 6010 | 200.8 / 6020: |                                                                                               |
|------------------|--------------|---------------|-----------------------------------------------------------------------------------------------|
| 8RCRA            | 13PPM        | Texas 11      | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |
| TCPL / SPLP 6010 |              |               | 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471            |

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| Relinquished by (Signature)                                                         | Received by (Signature)                                                           | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------|-----------------------------|-------------------------|-----------|
| 1  |  | 5/6/82    | 2                           |                         |           |
| 3                                                                                   |                                                                                   |           | 4                           |                         |           |
| 5                                                                                   |                                                                                   | 1/6/87    | 6                           |                         |           |

## Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-14653-1

SDG Number: Eddy Co, NM

**Login Number: 14653****List Number: 1****Creator: Teel, Brianna****List Source: Eurofins Midland**

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-14654-1

Laboratory Sample Delivery Group: Eddy Co, NM  
Client Project/Site: Ross Draw Unit #75

For:

Earth Systems Response and Restoration  
4115 South County Road 1297  
Odessa, Texas 79765

Attn: Kris Williams

A rectangular box containing a handwritten signature in blue ink that reads "Brianna Teel".

Authorized for release by:  
5/13/2022 12:04:28 PM

Brianna Teel, Project Manager  
(432)704-5440  
[Brianna.Teel@et.eurofinsus.com](mailto:Brianna.Teel@et.eurofinsus.com)

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Laboratory Job ID: 880-14654-1  
SDG: Eddy Co, NM

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## Definitions/Glossary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

**Job ID: 880-14654-1**

**Laboratory: Eurofins Midland**

### Narrative

#### Job Narrative 880-14654-1

### Comments

No additional comments.

### Receipt

The samples were received on 5/10/2022 4:57 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3° C.

### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25315 and analytical batch 880-25304 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25305 and analytical batch 880-25307 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

Client Sample ID: P-1 (0-0.5)

Lab Sample ID: 880-14654-1

Date Collected: 05/10/22 10:30

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:24 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:24 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:24 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:24 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:24 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 19:24 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 19:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 05/11/22 08:21 | 05/11/22 19:24 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 05/11/22 16:54 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 18:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 18:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 18:38 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92        |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 18:38 | 1       |
| o-Terphenyl    | 96        |           | 70 - 130 | 05/11/22 09:29 | 05/11/22 18:38 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 60.4   |           | 5.01 |     | mg/Kg |   |          | 05/12/22 21:14 | 1       |

Client Sample ID: P-2 (0-0.5)

Lab Sample ID: 880-14654-2

Date Collected: 05/10/22 10:31

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:04 | 1       |
| Toluene             | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:04 | 1       |
| Ethylbenzene        | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:04 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U F1      | 0.00398 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:04 | 1       |
| o-Xylene            | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:04 | 1       |
| Xylenes, Total      | <0.00398 | U F1      | 0.00398 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:04 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 | 05/11/22 09:31 | 05/11/22 16:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 05/11/22 09:31 | 05/11/22 16:04 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

Client Sample ID: P-2 (0-0.5)

Lab Sample ID: 880-14654-2

Date Collected: 05/10/22 10:31

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 05/11/22 16:54 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 215    |           | 49.9 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 19:00 | 1       |
| Diesel Range Organics (Over C10-C28) | 215       |           | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 19:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 19:00 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 99        |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 19:00 | 1       |
| o-Terphenyl                          | 106       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 19:00 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 15.4   |           | 5.00 |     | mg/Kg |   |          | 05/12/22 21:22 | 1       |

Client Sample ID: P-3 (0-0.5)

Lab Sample ID: 880-14654-3

Date Collected: 05/10/22 10:32

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:24 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:24 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:24 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:24 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:24 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:24 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 |     |       |   | 05/11/22 09:31 | 05/11/22 16:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 |     |       |   | 05/11/22 09:31 | 05/11/22 16:24 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 05/11/22 16:54 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 498    |           | 49.9 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 19:21 | 1       |
| Diesel Range Organics (Over C10-C28) | 498    |           | 49.9 |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 19:21 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

Client Sample ID: P-3 (0-0.5)

Lab Sample ID: 880-14654-3

Date Collected: 05/10/22 10:32

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte                           | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 19:21 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 100       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 19:21 | 1       |
| o-Terphenyl                       | 103       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 19:21 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 4280   |           | 49.8 |     | mg/Kg |   |          | 05/12/22 21:30 | 10      |

Client Sample ID: P-4 (0-0.5)

Lab Sample ID: 880-14654-4

Date Collected: 05/10/22 10:33

Matrix: Solid

Date Received: 05/10/22 16:57

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:44 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:44 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:44 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:44 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:44 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 16:44 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 |     |       |   | 05/11/22 09:31 | 05/11/22 16:44 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 |     |       |   | 05/11/22 09:31 | 05/11/22 16:44 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 05/11/22 16:54 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 1470   |           | 50.0 |     | mg/Kg |   |          | 05/12/22 09:29 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 19:43 | 1       |
| Diesel Range Organics (Over C10-C28) | 1470      |           | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 19:43 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 19:43 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 117       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 19:43 | 1       |
| o-Terphenyl                          | 123       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 19:43 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 6300   |           | 49.6 |     | mg/Kg |   |          | 05/12/22 21:38 | 10      |

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## Surrogate Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

### Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-14653-A-1-A MS                | Matrix Spike           | 111                                            | 97                |
| 880-14653-A-1-B MSD               | Matrix Spike Duplicate | 99                                             | 91                |
| 880-14654-1                       | P-1 (0-0.5)            | 116                                            | 93                |
| 880-14654-2                       | P-2 (0-0.5)            | 110                                            | 101               |
| 880-14654-2 MS                    | P-2 (0-0.5)            | 105                                            | 97                |
| 880-14654-2 MSD                   | P-2 (0-0.5)            | 100                                            | 101               |
| 880-14654-3                       | P-3 (0-0.5)            | 105                                            | 101               |
| 880-14654-4                       | P-4 (0-0.5)            | 106                                            | 101               |
| LCS 880-25305/1-A                 | Lab Control Sample     | 106                                            | 95                |
| LCS 880-25315/1-A                 | Lab Control Sample     | 100                                            | 99                |
| LCSD 880-25305/2-A                | Lab Control Sample Dup | 105                                            | 95                |
| LCSD 880-25315/2-A                | Lab Control Sample Dup | 102                                            | 96                |
| MB 880-25305/5-A                  | Method Blank           | 104                                            | 89                |
| MB 880-25315/5-A                  | Method Blank           | 96                                             | 96                |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-14653-A-1-E MS      | Matrix Spike           | 95                                             | 94                |
| 880-14653-A-1-F MSD     | Matrix Spike Duplicate | 98                                             | 94                |
| 880-14654-1             | P-1 (0-0.5)            | 92                                             | 96                |
| 880-14654-2             | P-2 (0-0.5)            | 99                                             | 106               |
| 880-14654-3             | P-3 (0-0.5)            | 100                                            | 103               |
| 880-14654-4             | P-4 (0-0.5)            | 117                                            | 123               |
| LCS 880-25314/2-A       | Lab Control Sample     | 95                                             | 96                |
| LCSD 880-25314/3-A      | Lab Control Sample Dup | 90                                             | 91                |
| MB 880-25314/1-A        | Method Blank           | 105                                            | 110               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25305/5-A

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25305

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/11/22 08:21 | 05/11/22 11:51 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 | 05/11/22 08:21 | 05/11/22 11:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89           |              | 70 - 130 | 05/11/22 08:21 | 05/11/22 11:51 | 1       |

Lab Sample ID: LCS 880-25305/1-A

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25305

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09850    |               | mg/Kg |   | 99   | 70 - 130    |
| Toluene             | 0.100       | 0.1068     |               | mg/Kg |   | 107  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1095     |               | mg/Kg |   | 110  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2241     |               | mg/Kg |   | 112  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1114     |               | mg/Kg |   | 111  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 106           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

Lab Sample ID: LCSD 880-25305/2-A

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25305

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09103     |                | mg/Kg |   | 91   | 70 - 130    | 8   | 35        |
| Toluene             | 0.100       | 0.09804     |                | mg/Kg |   | 98   | 70 - 130    | 9   | 35        |
| Ethylbenzene        | 0.100       | 0.1019      |                | mg/Kg |   | 102  | 70 - 130    | 7   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2094      |                | mg/Kg |   | 105  | 70 - 130    | 7   | 35        |
| o-Xylene            | 0.100       | 0.1045      |                | mg/Kg |   | 104  | 70 - 130    | 6   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 105            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95             |                | 70 - 130 |

Lab Sample ID: 880-14653-A-1-A MS

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25305

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00202      | U F1             | 0.0996      | 0.06771   | F1           | mg/Kg |   | 68   | 70 - 130    |
| Toluene | <0.00202      | U F1             | 0.0996      | 0.06501   | F1           | mg/Kg |   | 65   | 70 - 130    |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14653-A-1-A MS

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25305

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00202      | U F1             | 0.0996      | 0.06108   | F1           | mg/Kg |   | 61   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00403      | U F1             | 0.199       | 0.1934    |              | mg/Kg |   | 97   | 70 - 130    |
| o-Xylene            | <0.00202      | U F1             | 0.0996      | 0.06101   | F1           | mg/Kg |   | 61   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 111          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 97           |              | 70 - 130 |

Lab Sample ID: 880-14653-A-1-B MSD

Matrix: Solid

Analysis Batch: 25307

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25305

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------|
| Benzene             | <0.00202      | U F1             | 0.101       | <0.00202   | U F1          | mg/Kg |   | 0    | 70 - 130    | NC  | 35    |
| Toluene             | <0.00202      | U F1             | 0.101       | <0.00202   | U F1          | mg/Kg |   | 0    | 70 - 130    | NC  | 35    |
| Ethylbenzene        | <0.00202      | U F1             | 0.101       | <0.00202   | U F1          | mg/Kg |   | 0    | 70 - 130    | NC  | 35    |
| m-Xylene & p-Xylene | <0.00403      | U F1             | 0.202       | <0.00404   | U F1          | mg/Kg |   | 0    | 70 - 130    | NC  | 35    |
| o-Xylene            | <0.00202      | U F1             | 0.101       | <0.00202   | U F1          | mg/Kg |   | 0    | 70 - 130    | NC  | 35    |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 99            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 91            |               | 70 - 130 |

Lab Sample ID: MB 880-25315/5-A

Matrix: Solid

Analysis Batch: 25304

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25315

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 15:34 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 15:34 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 15:34 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 15:34 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 15:34 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/11/22 09:31 | 05/11/22 15:34 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96           |              | 70 - 130 | 05/11/22 09:31 | 05/11/22 15:34 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96           |              | 70 - 130 | 05/11/22 09:31 | 05/11/22 15:34 | 1       |

Lab Sample ID: LCS 880-25315/1-A

Matrix: Solid

Analysis Batch: 25304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25315

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09186    |               | mg/Kg |   | 92   | 70 - 130    |
| Toluene             | 0.100       | 0.08944    |               | mg/Kg |   | 89   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09136    |               | mg/Kg |   | 91   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1901     |               | mg/Kg |   | 95   | 70 - 130    |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-25315/1-A

Matrix: Solid

Analysis Batch: 25304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25315

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| o-Xylene | 0.100       | 0.1017     |               | mg/Kg |   | 102  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 100           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99            |               | 70 - 130 |

Lab Sample ID: LCSD 880-25315/2-A

Matrix: Solid

Analysis Batch: 25304

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25315

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene             | 0.100       | 0.08822     |                | mg/Kg |   | 88   | 70 - 130    | 4   | 35    |
| Toluene             | 0.100       | 0.09236     |                | mg/Kg |   | 92   | 70 - 130    | 3   | 35    |
| Ethylbenzene        | 0.100       | 0.09445     |                | mg/Kg |   | 94   | 70 - 130    | 3   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.1984      |                | mg/Kg |   | 99   | 70 - 130    | 4   | 35    |
| o-Xylene            | 0.100       | 0.1070      |                | mg/Kg |   | 107  | 70 - 130    | 5   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 102            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96             |                | 70 - 130 |

Lab Sample ID: 880-14654-2 MS

Matrix: Solid

Analysis Batch: 25304

Client Sample ID: P-2 (0-0.5)

Prep Type: Total/NA

Prep Batch: 25315

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00199      | U                | 0.0962      | 0.06869   |              | mg/Kg |   | 71   | 70 - 130    |
| Toluene             | <0.00199      | U F1             | 0.0962      | 0.06632   | F1           | mg/Kg |   | 69   | 70 - 130    |
| Ethylbenzene        | <0.00199      | U F1             | 0.0962      | 0.05811   | F1           | mg/Kg |   | 60   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.192       | 0.1197    | F1           | mg/Kg |   | 62   | 70 - 130    |
| o-Xylene            | <0.00199      | U F1             | 0.0962      | 0.06441   | F1           | mg/Kg |   | 67   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 105          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 97           |              | 70 - 130 |

Lab Sample ID: 880-14654-2 MSD

Matrix: Solid

Analysis Batch: 25304

Client Sample ID: P-2 (0-0.5)

Prep Type: Total/NA

Prep Batch: 25315

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------|
| Benzene             | <0.00199      | U                | 0.100       | 0.08682    |               | mg/Kg |   | 86   | 70 - 130    | 23  | 35    |
| Toluene             | <0.00199      | U F1             | 0.100       | 0.07955    |               | mg/Kg |   | 79   | 70 - 130    | 18  | 35    |
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.07262    |               | mg/Kg |   | 72   | 70 - 130    | 22  | 35    |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.201       | 0.1486     |               | mg/Kg |   | 74   | 70 - 130    | 22  | 35    |
| o-Xylene            | <0.00199      | U F1             | 0.100       | 0.08075    |               | mg/Kg |   | 80   | 70 - 130    | 23  | 35    |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14654-2 MSD

Matrix: Solid

Analysis Batch: 25304

Client Sample ID: P-2 (0-0.5)

Prep Type: Total/NA

Prep Batch: 25315

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 100       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-25314/1-A

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25314

| Analyte                              | MB        | MB        |          |     |       |   |                |                |     |     |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|-----|-----|
|                                      | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil | Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 10:55 | 1   |     |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 10:55 | 1   |     |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/11/22 09:29 | 05/11/22 10:55 | 1   |     |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil | Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 10:55 | 1   |     |
| o-Terphenyl                          | 110       |           | 70 - 130 |     |       |   | 05/11/22 09:29 | 05/11/22 10:55 | 1   |     |

Lab Sample ID: LCS 880-25314/2-A

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25314

| Analyte                              | Spike     | LCS       | LCS       |       |   |      |      |          |  |  |
|--------------------------------------|-----------|-----------|-----------|-------|---|------|------|----------|--|--|
|                                      | Added     | Result    | Qualifier | Unit  | D | %Rec | %Rec | Limits   |  |  |
| Gasoline Range Organics (GRO)-C6-C10 | 1000      | 799.6     |           | mg/Kg |   | 80   |      | 70 - 130 |  |  |
| Diesel Range Organics (Over C10-C28) | 1000      | 974.7     |           | mg/Kg |   | 97   |      | 70 - 130 |  |  |
| Surrogate                            | %Recovery | Qualifier | Limits    |       |   |      |      |          |  |  |
| 1-Chlorooctane                       | 95        |           | 70 - 130  |       |   |      |      |          |  |  |
| o-Terphenyl                          | 96        |           | 70 - 130  |       |   |      |      |          |  |  |

Lab Sample ID: LCSD 880-25314/3-A

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25314

| Analyte                              | Spike     | LCSD      | LCSD      |       |   |      |      |     |       |  |
|--------------------------------------|-----------|-----------|-----------|-------|---|------|------|-----|-------|--|
|                                      | Added     | Result    | Qualifier | Unit  | D | %Rec | %Rec | RPD | Limit |  |
| Gasoline Range Organics (GRO)-C6-C10 | 1000      | 751.7     |           | mg/Kg |   | 75   |      | 6   | 20    |  |
| Diesel Range Organics (Over C10-C28) | 1000      | 910.9     |           | mg/Kg |   | 91   |      | 7   | 20    |  |
| Surrogate                            | %Recovery | Qualifier | Limits    |       |   |      |      |     |       |  |
| 1-Chlorooctane                       | 90        |           | 70 - 130  |       |   |      |      |     |       |  |
| o-Terphenyl                          | 91        |           | 70 - 130  |       |   |      |      |     |       |  |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-14653-A-1-E MS

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25314

| Analyte                              | Sample    | Sample    | Spike    | MS     | MS        | Unit  | D | %Rec | %Rec     |  |  |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|--|
|                                      | Result    | Qualifier | Added    | Result | Qualifier |       |   |      | Limits   |  |  |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 1000     | 892.0  |           | mg/Kg |   | 86   | 70 - 130 |  |  |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 1000     | 925.7  |           | mg/Kg |   | 90   | 70 - 130 |  |  |
|                                      |           |           |          |        |           |       |   |      |          |  |  |
| Surrogate                            | MS        | MS        |          |        |           |       |   |      |          |  |  |
|                                      | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |  |  |
| 1-Chlorooctane                       | 95        |           | 70 - 130 |        |           |       |   |      |          |  |  |
| o-Terphenyl                          | 94        |           | 70 - 130 |        |           |       |   |      |          |  |  |

Lab Sample ID: 880-14653-A-1-F MSD

Matrix: Solid

Analysis Batch: 25319

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25314

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limits |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 998         | 881.1      |               | mg/Kg |   | 85   | 70 - 130    | 1   | 20         |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 998         | 935.7      |               | mg/Kg |   | 91   | 70 - 130    | 1   | 20         |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
|                                      |               |                  |             |            |               |       |   |      |             |     |            |
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## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25327/1-A

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 |     | mg/Kg |   |          | 05/12/22 17:41 | 1       |

Lab Sample ID: LCS 880-25327/2-A

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 260.5      |               | mg/Kg |   | 104  | 90 - 110    |

Lab Sample ID: LCSD 880-25327/3-A

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 261.2       |                | mg/Kg |   | 104  | 90 - 110    | 0   | 20        |

Eurofins Midland

## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-14653-A-11-D MS

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |  |  |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|--|--|
| Chloride | 15200         | F1               | 12600       | 29750     | F1           | mg/Kg |   | 116  | 90 - 110    |  |  |

Lab Sample ID: 880-14653-A-11-E MSD

Matrix: Solid

Analysis Batch: 25484

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 15200         | F1               | 12600       | 29730      | F1            | mg/Kg |   | 115  | 90 - 110    | 0   | 20        |

## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

## GC VOA

## Analysis Batch: 25304

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14654-2        | P-2 (0-0.5)            | Total/NA  | Solid  | 8021B  | 25315      |
| 880-14654-3        | P-3 (0-0.5)            | Total/NA  | Solid  | 8021B  | 25315      |
| 880-14654-4        | P-4 (0-0.5)            | Total/NA  | Solid  | 8021B  | 25315      |
| MB 880-25315/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 25315      |
| LCS 880-25315/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25315      |
| LCSD 880-25315/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25315      |
| 880-14654-2 MS     | P-2 (0-0.5)            | Total/NA  | Solid  | 8021B  | 25315      |
| 880-14654-2 MSD    | P-2 (0-0.5)            | Total/NA  | Solid  | 8021B  | 25315      |

## Prep Batch: 25305

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-14654-1         | P-1 (0-0.5)            | Total/NA  | Solid  | 5035   |            |
| MB 880-25305/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-25305/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25305/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-14653-A-1-A MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-14653-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 25307

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-14654-1         | P-1 (0-0.5)            | Total/NA  | Solid  | 8021B  | 25305      |
| MB 880-25305/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 25305      |
| LCS 880-25305/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25305      |
| LCSD 880-25305/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-A-1-A MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 25305      |
| 880-14653-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 25305      |

## Prep Batch: 25315

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14654-2        | P-2 (0-0.5)            | Total/NA  | Solid  | 5035   |            |
| 880-14654-3        | P-3 (0-0.5)            | Total/NA  | Solid  | 5035   |            |
| 880-14654-4        | P-4 (0-0.5)            | Total/NA  | Solid  | 5035   |            |
| MB 880-25315/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-25315/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25315/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-14654-2 MS     | P-2 (0-0.5)            | Total/NA  | Solid  | 5035   |            |
| 880-14654-2 MSD    | P-2 (0-0.5)            | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 25374

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-14654-1   | P-1 (0-0.5)      | Total/NA  | Solid  | Total BTEX |            |
| 880-14654-2   | P-2 (0-0.5)      | Total/NA  | Solid  | Total BTEX |            |
| 880-14654-3   | P-3 (0-0.5)      | Total/NA  | Solid  | Total BTEX |            |
| 880-14654-4   | P-4 (0-0.5)      | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 25314

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 880-14654-1   | P-1 (0-0.5)      | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14654-2   | P-2 (0-0.5)      | Total/NA  | Solid  | 8015NM Prep |            |

Eurofins Midland

## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## Prep Batch: 25314 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-14654-3         | P-3 (0-0.5)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14654-4         | P-4 (0-0.5)            | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-25314/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-25314/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-25314/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14653-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 25319

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-14654-1         | P-1 (0-0.5)            | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14654-2         | P-2 (0-0.5)            | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14654-3         | P-3 (0-0.5)            | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14654-4         | P-4 (0-0.5)            | Total/NA  | Solid  | 8015B NM | 25314      |
| MB 880-25314/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 25314      |
| LCS 880-25314/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 25314      |
| LCSD 880-25314/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 25314      |
| 880-14653-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 25314      |

## Analysis Batch: 25387

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-14654-1   | P-1 (0-0.5)      | Total/NA  | Solid  | 8015 NM |            |
| 880-14654-2   | P-2 (0-0.5)      | Total/NA  | Solid  | 8015 NM |            |
| 880-14654-3   | P-3 (0-0.5)      | Total/NA  | Solid  | 8015 NM |            |
| 880-14654-4   | P-4 (0-0.5)      | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 25327

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-14654-1          | P-1 (0-0.5)            | Soluble   | Solid  | DI Leach |            |
| 880-14654-2          | P-2 (0-0.5)            | Soluble   | Solid  | DI Leach |            |
| 880-14654-3          | P-3 (0-0.5)            | Soluble   | Solid  | DI Leach |            |
| 880-14654-4          | P-4 (0-0.5)            | Soluble   | Solid  | DI Leach |            |
| MB 880-25327/1-A     | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-25327/2-A    | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-25327/3-A   | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-14653-A-11-D MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-14653-A-11-E MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 25484

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-14654-1         | P-1 (0-0.5)            | Soluble   | Solid  | 300.0  | 25327      |
| 880-14654-2         | P-2 (0-0.5)            | Soluble   | Solid  | 300.0  | 25327      |
| 880-14654-3         | P-3 (0-0.5)            | Soluble   | Solid  | 300.0  | 25327      |
| 880-14654-4         | P-4 (0-0.5)            | Soluble   | Solid  | 300.0  | 25327      |
| MB 880-25327/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 25327      |
| LCS 880-25327/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 25327      |
| LCSD 880-25327/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 25327      |
| 880-14653-A-11-D MS | Matrix Spike           | Soluble   | Solid  | 300.0  | 25327      |

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QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

HPLC/IC (Continued)

Analysis Batch: 25484 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-14653-A-11-E MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 25327      |

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## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

## Client Sample ID: P-1 (0-0.5)

Date Collected: 05/10/22 10:30

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14654-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 25305        | 05/11/22 08:21       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25307        | 05/11/22 19:24       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25374        | 05/11/22 16:54       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25387        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 18:38       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 25484        | 05/12/22 21:14       | CH      | XEN MID |

## Client Sample ID: P-2 (0-0.5)

Date Collected: 05/10/22 10:31

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14654-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 25315        | 05/11/22 09:31       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 25304        | 05/11/22 16:04       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25374        | 05/11/22 16:54       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25387        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 19:00       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 25484        | 05/12/22 21:22       | CH      | XEN MID |

## Client Sample ID: P-3 (0-0.5)

Date Collected: 05/10/22 10:32

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14654-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 25315        | 05/11/22 09:31       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 25304        | 05/11/22 16:24       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25374        | 05/11/22 16:54       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25387        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 19:21       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 25484        | 05/12/22 21:30       | CH      | XEN MID |

## Client Sample ID: P-4 (0-0.5)

Date Collected: 05/10/22 10:33

Date Received: 05/10/22 16:57

## Lab Sample ID: 880-14654-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 25315        | 05/11/22 09:31       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 25304        | 05/11/22 16:44       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 25374        | 05/11/22 16:54       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

**Client Sample ID: P-4 (0-0.5)****Lab Sample ID: 880-14654-4****Date Collected: 05/10/22 10:33****Matrix: Solid****Date Received: 05/10/22 16:57**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 25387        | 05/12/22 09:29       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 25314        | 05/11/22 09:29       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25319        | 05/11/22 19:43       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 25327        | 05/11/22 10:13       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 25484        | 05/12/22 21:38       | CH      | XEN MID |

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------|
| Texas                                                                                                                                                                                                 | NELAP       | T104704400-21-22      | 06-30-22        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte         |
| 8015 NM                                                                                                                                                                                               |             | Solid                 | Total TPH       |
| Total BTEX                                                                                                                                                                                            |             | Solid                 | Total BTEX      |

## Method Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-14654-1  
SDG: Eddy Co, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 880-14654-1   | P-1 (0-0.5)      | Solid  | 05/10/22 10:30 | 05/10/22 16:57 |
| 880-14654-2   | P-2 (0-0.5)      | Solid  | 05/10/22 10:31 | 05/10/22 16:57 |
| 880-14654-3   | P-3 (0-0.5)      | Solid  | 05/10/22 10:32 | 05/10/22 16:57 |
| 880-14654-4   | P-4 (0-0.5)      | Solid  | 05/10/22 10:33 | 05/10/22 16:57 |

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Environment Testing  
Xenco

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Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No:

146574

www.xenco.com

Page 1 of 1

|                 |                      |                        |                       |
|-----------------|----------------------|------------------------|-----------------------|
| Project Manager | Ashton Thielke       | Bill to (if different) | Devon Energy          |
| Company Name    | Earth Systems R&R    | Company Name           |                       |
| Address         | 4115 South C R 1297  | Address                |                       |
| City, State ZIP | Midland, Texas 79765 | City, State ZIP        |                       |
| Phone           |                      | Email                  | athielke@earthsys.net |

|                                                                                                                                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRF <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> |  |
| State of Project:                                                                                                                                                                                    |  |
| Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>                      |  |
| Deliverables EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other                                                                                                                       |  |

|                          |                    |                                                                           |              |                       |           |                                                                 |
|--------------------------|--------------------|---------------------------------------------------------------------------|--------------|-----------------------|-----------|-----------------------------------------------------------------|
| Project Name             | Ross Draw Unit #75 | Turn Around                                                               | 300h         | ANALYSIS REQUEST      |           | Preservative Codes                                              |
| Project Number           | 1094               | <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush |              |                       |           | None NO DI Water H <sub>2</sub> O                               |
| Project Location         | Eddy Co. NM        | Due Date                                                                  | 10/23        |                       |           | Cool Cool MeOH Me                                               |
| Sampler's Name           | Ashton Thielke     | TAT starts the day received by the lab if received by 4:30pm              |              |                       |           | HCL HC HNO <sub>3</sub> HN                                      |
| PO #                     |                    |                                                                           |              |                       |           | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> NaOH Na           |
| SAMPLE RECEIPT           | Tapp Blank         | Yes                                                                       | 66           | Well Ice              | Yes       | HP                                                              |
| Samples Received Intact: | Yes                | No                                                                        |              | Thermometer ID        |           | NaHSO <sub>4</sub> NABIS                                        |
| Cooler Custody Seals     | Yes                | No                                                                        |              | Correction Factor     |           | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |
| Sample Custody Seals     | Yes                | No                                                                        |              | Temperature Reading   | 15        | Zn Acetate+NaOH Zn                                              |
| Total Containers         |                    |                                                                           |              | Corrected Temperature | 1.3       | NaOH+Ascorbic Acid SAPC                                         |
| Sample Identification    | Matrix             | Date Sampled                                                              | Time Sampled | Depth                 | Grab/Comp | # of Cont                                                       |
| P-1 (0-0.5)              | S                  | 5/10/2022                                                                 | 1030         |                       | Grab/1    | X X X                                                           |
| P-2 (0-0.5)              | S                  | 5/10/2022                                                                 | 1031         |                       | Grab/1    | X X X                                                           |
| P-3 (0-0.5)              | S                  | 5/10/2022                                                                 | 1032         |                       | Grab/1    | X X X                                                           |
| P-4 (0-0.5)              | S                  | 5/10/2022                                                                 | 1033         |                       | Grab/1    | X X X                                                           |



|                                              |                |                                                      |                                          |              |
|----------------------------------------------|----------------|------------------------------------------------------|------------------------------------------|--------------|
| Total 200 7 / 6010                           | 200.8 / 6020:  | 8RCRA 13PPM Texas 11                                 | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg | Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed | TCLP/SPLP 6010 | 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U | ry                                       |              |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

|                             |                         |           |                             |                         |           |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
| 1                           |                         | 5/16/23   | 2                           |                         |           |
| 3                           |                         |           | 4                           |                         |           |
| 5                           |                         | 1057      | 6                           |                         |           |

## Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-14654-1

SDG Number: Eddy Co, NM

**Login Number: 14654****List Number: 1****Creator: Teel, Brianna****List Source: Eurofins Midland**

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-15112-1

Laboratory Sample Delivery Group: Eddy Co, NM  
Client Project/Site: Ross Draw Unit #75

**For:**

Earth Systems Response and Restoration  
4115 South County Road 1297  
Odessa, Texas 79765

Attn: Kris Williams

A handwritten signature in blue ink that reads "Brianna Teel". The signature is written on a light gray rectangular background.

Authorized for release by:  
5/25/2022 11:48:33 AM

Brianna Teel, Project Manager  
(432)704-5440

[Brianna.Teel@et.eurofinsus.com](mailto:Brianna.Teel@et.eurofinsus.com)

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Laboratory Job ID: 880-15112-1  
SDG: Eddy Co, NM

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## Definitions/Glossary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

**Job ID: 880-15112-1**

**Laboratory: Eurofins Midland**

### Narrative

#### Job Narrative 880-15112-1

#### Receipt

The samples were received on 5/24/2022 2:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-26189 and analytical batch 880-26191 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-5 (880-15112-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-8 (880-15112-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

Client Sample ID: SW-1

Lab Sample ID: 880-15112-1

Date Collected: 05/24/22 10:55

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:08 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:08 | 1       |
| Ethylbenzene        | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:08 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U F1      | 0.00398 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:08 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:08 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:08 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 18:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 18:08 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 01:32 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 01:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 01:32 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 102       |           | 70 - 130 | 05/24/22 15:58 | 05/25/22 01:32 | 1       |
| o-Terphenyl    | 112       |           | 70 - 130 | 05/24/22 15:58 | 05/25/22 01:32 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 107    |           | 4.98 |     | mg/Kg |   |          | 05/24/22 19:06 | 1       |

Client Sample ID: SW-2

Lab Sample ID: 880-15112-2

Date Collected: 05/24/22 10:56

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:29 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:29 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:29 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:29 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:29 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:29 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 124       |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 18:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 82        |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 18:29 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

Client Sample ID: SW-2

Lab Sample ID: 880-15112-2

Date Collected: 05/24/22 10:56

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 01:53 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 01:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 01:53 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 98        |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 01:53 | 1       |
| o-Terphenyl                          | 106       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 01:53 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 134    |           | 4.95 |     | mg/Kg |   |          | 05/24/22 19:33 | 1       |

Client Sample ID: SW-3

Lab Sample ID: 880-15112-3

Date Collected: 05/24/22 10:57

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:49 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:49 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:49 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:49 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:49 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 18:49 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 121       |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 18:49 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89        |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 18:49 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 02:14 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 02:14 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

Client Sample ID: SW-3

Lab Sample ID: 880-15112-3

Date Collected: 05/24/22 10:57

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte                           | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 02:14 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 104       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 02:14 | 1       |
| o-Terphenyl                       | 114       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 02:14 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 72.3   |           | 4.97 |     | mg/Kg |   |          | 05/24/22 19:42 | 1       |

Client Sample ID: SW-4

Lab Sample ID: 880-15112-4

Date Collected: 05/24/22 10:58

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:10 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:10 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:10 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:10 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:10 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:10 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 19:10 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 19:10 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 02:35 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 02:35 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 02:35 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 103       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 02:35 | 1       |
| o-Terphenyl                          | 112       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 02:35 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 115    |           | 5.00 |     | mg/Kg |   |          | 05/24/22 19:52 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

Client Sample ID: SW-5

Lab Sample ID: 880-15112-5

Date Collected: 05/24/22 10:59

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:30 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:30 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:30 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:30 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:30 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:30 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 146       | S1+       | 70 - 130 | 05/24/22 14:26 | 05/24/22 19:30 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 19:30 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 02:56 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 02:56 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 02:56 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101       |           | 70 - 130 | 05/24/22 15:58 | 05/25/22 02:56 | 1       |
| o-Terphenyl    | 112       |           | 70 - 130 | 05/24/22 15:58 | 05/25/22 02:56 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 170    |           | 4.96 |     | mg/Kg |   |          | 05/24/22 20:01 | 1       |

Client Sample ID: SW-6

Lab Sample ID: 880-15112-6

Date Collected: 05/24/22 11:00

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:51 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:51 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:51 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:51 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:51 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 19:51 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117       |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 19:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 19:51 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

Client Sample ID: SW-6

Lab Sample ID: 880-15112-6

Date Collected: 05/24/22 11:00

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 03:17 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 03:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 03:17 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 100       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 03:17 | 1       |
| o-Terphenyl                          | 109       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 03:17 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 312    |           | 4.98 |     | mg/Kg |   |          | 05/24/22 20:28 | 1       |

Client Sample ID: SW-7

Lab Sample ID: 880-15112-7

Date Collected: 05/24/22 11:01

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:12 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:12 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:12 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:12 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:12 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:12 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 20:12 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 20:12 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 03:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 03:38 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

Client Sample ID: SW-7

Lab Sample ID: 880-15112-7

Date Collected: 05/24/22 11:01

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte                           | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 03:38 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 101       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 03:38 | 1       |
| o-Terphenyl                       | 113       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 03:38 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 62.6   |           | 4.96 |     | mg/Kg |   |          | 05/24/22 20:38 | 1       |

Client Sample ID: SW-8

Lab Sample ID: 880-15112-8

Date Collected: 05/24/22 11:02

Matrix: Solid

Date Received: 05/24/22 14:15

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:32 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:32 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:32 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:32 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:32 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:32 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 175       | S1+       | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 20:32 | 1       |
| 1,4-Difluorobenzene (Surr)  | 128       |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 20:32 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 03:59 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 03:59 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 03:59 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 97        |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 03:59 | 1       |
| o-Terphenyl                          | 107       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 03:59 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 141    |           | 5.05 |     | mg/Kg |   |          | 05/24/22 20:47 | 1       |

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## Surrogate Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

### Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-15112-1                       | SW-1                   | 116                                            | 91                |
| 880-15112-1 MS                    | SW-1                   | 96                                             | 87                |
| 880-15112-1 MSD                   | SW-1                   | 99                                             | 93                |
| 880-15112-2                       | SW-2                   | 124                                            | 82                |
| 880-15112-3                       | SW-3                   | 121                                            | 89                |
| 880-15112-4                       | SW-4                   | 107                                            | 95                |
| 880-15112-5                       | SW-5                   | 146 S1+                                        | 91                |
| 880-15112-6                       | SW-6                   | 117                                            | 96                |
| 880-15112-7                       | SW-7                   | 107                                            | 96                |
| 880-15112-8                       | SW-8                   | 175 S1+                                        | 128               |
| LCS 880-26189/1-A                 | Lab Control Sample     | 101                                            | 102               |
| LCSD 880-26189/2-A                | Lab Control Sample Dup | 99                                             | 101               |
| MB 880-26189/5-A                  | Method Blank           | 102                                            | 103               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-15112-1             | SW-1                   | 102                                            | 112               |
| 880-15112-2             | SW-2                   | 98                                             | 106               |
| 880-15112-3             | SW-3                   | 104                                            | 114               |
| 880-15112-4             | SW-4                   | 103                                            | 112               |
| 880-15112-5             | SW-5                   | 101                                            | 112               |
| 880-15112-6             | SW-6                   | 100                                            | 109               |
| 880-15112-7             | SW-7                   | 101                                            | 113               |
| 880-15112-8             | SW-8                   | 97                                             | 107               |
| 880-15113-A-1-D MS      | Matrix Spike           | 95                                             | 98                |
| 880-15113-A-1-E MSD     | Matrix Spike Duplicate | 95                                             | 97                |
| LCS 880-26196/2-A       | Lab Control Sample     | 111                                            | 116               |
| LCSD 880-26196/3-A      | Lab Control Sample Dup | 114                                            | 119               |
| MB 880-26196/1-A        | Method Blank           | 106                                            | 122               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26189/5-A

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26189

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 | 05/24/22 14:26 | 05/24/22 17:46 | 1       |

Lab Sample ID: LCS 880-26189/1-A

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26189

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09248    |               | mg/Kg |   | 92   | 70 - 130    |
| Toluene             | 0.100       | 0.09550    |               | mg/Kg |   | 96   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.08540    |               | mg/Kg |   | 85   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1780     |               | mg/Kg |   | 89   | 70 - 130    |
| o-Xylene            | 0.100       | 0.09043    |               | mg/Kg |   | 90   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 101           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102           |               | 70 - 130 |

Lab Sample ID: LCSD 880-26189/2-A

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26189

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.08799     |                | mg/Kg |   | 88   | 70 - 130    | 5   | 35        |
| Toluene             | 0.100       | 0.08955     |                | mg/Kg |   | 90   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | 0.100       | 0.08059     |                | mg/Kg |   | 81   | 70 - 130    | 6   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1648      |                | mg/Kg |   | 82   | 70 - 130    | 8   | 35        |
| o-Xylene            | 0.100       | 0.08433     |                | mg/Kg |   | 84   | 70 - 130    | 7   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 99             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101            |                | 70 - 130 |

Lab Sample ID: 880-15112-1 MS

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 26189

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00199      | U F1             | 0.0996      | 0.06244   | F1           | mg/Kg |   | 63   | 70 - 130    |
| Toluene | <0.00199      | U                | 0.0996      | 0.07721   |              | mg/Kg |   | 78   | 70 - 130    |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-15112-1 MS

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 26189

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00199      | U F1             | 0.0996      | 0.06921   | F1           | mg/Kg |   | 69   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.199       | 0.1382    | F1           | mg/Kg |   | 69   | 70 - 130    |
| o-Xylene            | <0.00199      | U                | 0.0996      | 0.07044   |              | mg/Kg |   | 71   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 96           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 87           |              | 70 - 130 |

Lab Sample ID: 880-15112-1 MSD

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 26189

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------|
| Benzene             | <0.00199      | U F1             | 0.101       | 0.06829    | F1            | mg/Kg |   | 68   | 70 - 130    | 9   | 35    |
| Toluene             | <0.00199      | U                | 0.101       | 0.07764    |               | mg/Kg |   | 77   | 70 - 130    | 1   | 35    |
| Ethylbenzene        | <0.00199      | U F1             | 0.101       | 0.07055    |               | mg/Kg |   | 70   | 70 - 130    | 2   | 35    |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.201       | 0.1425     |               | mg/Kg |   | 71   | 70 - 130    | 3   | 35    |
| o-Xylene            | <0.00199      | U                | 0.101       | 0.07277    |               | mg/Kg |   | 72   | 70 - 130    | 3   | 35    |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 99            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-26196/1-A

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26196

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 19:57 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 19:57 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 19:57 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 106          |              | 70 - 130 | 05/24/22 15:58 | 05/24/22 19:57 | 1       |
| o-Terphenyl    | 122          |              | 70 - 130 | 05/24/22 15:58 | 05/24/22 19:57 | 1       |

Lab Sample ID: LCS 880-26196/2-A

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26196

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1013       |               | mg/Kg |   | 101  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 934.5      |               | mg/Kg |   | 93   | 70 - 130    |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-26196/2-A

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26196

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 111       |           | 70 - 130 |
| o-Terphenyl    | 116       |           | 70 - 130 |

Lab Sample ID: LCSD 880-26196/3-A

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26196

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1060        |                | mg/Kg |   | 106  | 70 - 130    | 5   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 941.2       |                | mg/Kg |   | 94   | 70 - 130    | 1   | 20        |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 114       |           | 70 - 130 |
| o-Terphenyl    | 119       |           | 70 - 130 |

Lab Sample ID: 880-15113-A-1-D MS

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26196

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 1000        | 930.1     |              | mg/Kg |   | 93   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 187           |                  | 1000        | 1119      |              | mg/Kg |   | 93   | 70 - 130    |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 95        |           | 70 - 130 |
| o-Terphenyl    | 98        |           | 70 - 130 |

Lab Sample ID: 880-15113-A-1-E MSD

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26196

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 999         | 938.7      |               | mg/Kg |   | 94   | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | 187           |                  | 999         | 1107       |               | mg/Kg |   | 92   | 70 - 130    | 1   | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 95        |           | 70 - 130 |
| o-Terphenyl    | 97        |           | 70 - 130 |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26192/1-A

Matrix: Solid

Analysis Batch: 26202

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 |     | mg/Kg |   |          | 05/24/22 18:38 | 1       |

Lab Sample ID: LCS 880-26192/2-A

Matrix: Solid

Analysis Batch: 26202

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250            | 248.1         |                  | mg/Kg |   | 99   | 90 - 110       |

Lab Sample ID: LCSD 880-26192/3-A

Matrix: Solid

Analysis Batch: 26202

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 250            | 249.7          |                   | mg/Kg |   | 100  | 90 - 110       | 1   | 20           |

Lab Sample ID: 880-15112-1 MS

Matrix: Solid

Analysis Batch: 26202

Client Sample ID: SW-1

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 107              |                     | 249            | 341.1        |                 | mg/Kg |   | 94   | 90 - 110       |

Lab Sample ID: 880-15112-1 MSD

Matrix: Solid

Analysis Batch: 26202

Client Sample ID: SW-1

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 107              |                     | 249            | 336.5         |                  | mg/Kg |   | 92   | 90 - 110       | 1   | 20           |

## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

## GC VOA

## Prep Batch: 26189

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-15112-1        | SW-1                   | Total/NA  | Solid  | 5035   |            |
| 880-15112-2        | SW-2                   | Total/NA  | Solid  | 5035   |            |
| 880-15112-3        | SW-3                   | Total/NA  | Solid  | 5035   |            |
| 880-15112-4        | SW-4                   | Total/NA  | Solid  | 5035   |            |
| 880-15112-5        | SW-5                   | Total/NA  | Solid  | 5035   |            |
| 880-15112-6        | SW-6                   | Total/NA  | Solid  | 5035   |            |
| 880-15112-7        | SW-7                   | Total/NA  | Solid  | 5035   |            |
| 880-15112-8        | SW-8                   | Total/NA  | Solid  | 5035   |            |
| MB 880-26189/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-26189/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-26189/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-15112-1 MS     | SW-1                   | Total/NA  | Solid  | 5035   |            |
| 880-15112-1 MSD    | SW-1                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 26191

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-15112-1        | SW-1                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-2        | SW-2                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-3        | SW-3                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-4        | SW-4                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-5        | SW-5                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-6        | SW-6                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-7        | SW-7                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-8        | SW-8                   | Total/NA  | Solid  | 8021B  | 26189      |
| MB 880-26189/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 26189      |
| LCS 880-26189/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 26189      |
| LCSD 880-26189/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-1 MS     | SW-1                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-1 MSD    | SW-1                   | Total/NA  | Solid  | 8021B  | 26189      |

## Analysis Batch: 26241

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-15112-1   | SW-1             | Total/NA  | Solid  | Total BTEX |            |
| 880-15112-2   | SW-2             | Total/NA  | Solid  | Total BTEX |            |
| 880-15112-3   | SW-3             | Total/NA  | Solid  | Total BTEX |            |
| 880-15112-4   | SW-4             | Total/NA  | Solid  | Total BTEX |            |
| 880-15112-5   | SW-5             | Total/NA  | Solid  | Total BTEX |            |
| 880-15112-6   | SW-6             | Total/NA  | Solid  | Total BTEX |            |
| 880-15112-7   | SW-7             | Total/NA  | Solid  | Total BTEX |            |
| 880-15112-8   | SW-8             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 26132

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 880-15112-1   | SW-1             | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15112-2   | SW-2             | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15112-3   | SW-3             | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15112-4   | SW-4             | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15112-5   | SW-5             | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15112-6   | SW-6             | Total/NA  | Solid  | 8015B NM | 26196      |

Eurofins Midland

## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## Analysis Batch: 26132 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-15112-7         | SW-7                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15112-8         | SW-8                   | Total/NA  | Solid  | 8015B NM | 26196      |
| MB 880-26196/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 26196      |
| LCS 880-26196/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 26196      |
| LCSD 880-26196/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-A-1-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 26196      |

## Prep Batch: 26196

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-15112-1         | SW-1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15112-2         | SW-2                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15112-3         | SW-3                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15112-4         | SW-4                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15112-5         | SW-5                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15112-6         | SW-6                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15112-7         | SW-7                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15112-8         | SW-8                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-26196/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-26196/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-26196/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-A-1-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 26239

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-15112-1   | SW-1             | Total/NA  | Solid  | 8015 NM |            |
| 880-15112-2   | SW-2             | Total/NA  | Solid  | 8015 NM |            |
| 880-15112-3   | SW-3             | Total/NA  | Solid  | 8015 NM |            |
| 880-15112-4   | SW-4             | Total/NA  | Solid  | 8015 NM |            |
| 880-15112-5   | SW-5             | Total/NA  | Solid  | 8015 NM |            |
| 880-15112-6   | SW-6             | Total/NA  | Solid  | 8015 NM |            |
| 880-15112-7   | SW-7             | Total/NA  | Solid  | 8015 NM |            |
| 880-15112-8   | SW-8             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 26192

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-15112-1        | SW-1                   | Soluble   | Solid  | DI Leach |            |
| 880-15112-2        | SW-2                   | Soluble   | Solid  | DI Leach |            |
| 880-15112-3        | SW-3                   | Soluble   | Solid  | DI Leach |            |
| 880-15112-4        | SW-4                   | Soluble   | Solid  | DI Leach |            |
| 880-15112-5        | SW-5                   | Soluble   | Solid  | DI Leach |            |
| 880-15112-6        | SW-6                   | Soluble   | Solid  | DI Leach |            |
| 880-15112-7        | SW-7                   | Soluble   | Solid  | DI Leach |            |
| 880-15112-8        | SW-8                   | Soluble   | Solid  | DI Leach |            |
| MB 880-26192/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-26192/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-26192/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-15112-1 MS     | SW-1                   | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

## HPLC/IC (Continued)

## Leach Batch: 26192 (Continued)

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|-----------------|------------------|-----------|--------|----------|------------|
| 880-15112-1 MSD | SW-1             | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 26202

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-15112-1        | SW-1                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15112-2        | SW-2                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15112-3        | SW-3                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15112-4        | SW-4                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15112-5        | SW-5                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15112-6        | SW-6                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15112-7        | SW-7                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15112-8        | SW-8                   | Soluble   | Solid  | 300.0  | 26192      |
| MB 880-26192/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 26192      |
| LCS 880-26192/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 26192      |
| LCSD 880-26192/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 26192      |
| 880-15112-1 MS     | SW-1                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15112-1 MSD    | SW-1                   | Soluble   | Solid  | 300.0  | 26192      |

## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

Client Sample ID: SW-1

Lab Sample ID: 880-15112-1

Date Collected: 05/24/22 10:55

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 18:08       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26241        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26239        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 01:32       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26202        | 05/24/22 19:06       | CH      | XEN MID |

Client Sample ID: SW-2

Lab Sample ID: 880-15112-2

Date Collected: 05/24/22 10:56

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 18:29       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26241        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26239        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 01:53       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26202        | 05/24/22 19:33       | CH      | XEN MID |

Client Sample ID: SW-3

Lab Sample ID: 880-15112-3

Date Collected: 05/24/22 10:57

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 18:49       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26241        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26239        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 02:14       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26202        | 05/24/22 19:42       | CH      | XEN MID |

Client Sample ID: SW-4

Lab Sample ID: 880-15112-4

Date Collected: 05/24/22 10:58

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 19:10       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26241        | 05/25/22 09:40       | SM      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

Client Sample ID: SW-4

Lab Sample ID: 880-15112-4

Date Collected: 05/24/22 10:58

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26239        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 02:35       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26202        | 05/24/22 19:52       | CH      | XEN MID |

Client Sample ID: SW-5

Lab Sample ID: 880-15112-5

Date Collected: 05/24/22 10:59

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 19:30       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26241        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26239        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 02:56       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26202        | 05/24/22 20:01       | CH      | XEN MID |

Client Sample ID: SW-6

Lab Sample ID: 880-15112-6

Date Collected: 05/24/22 11:00

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 19:51       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26241        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26239        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 03:17       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26202        | 05/24/22 20:28       | CH      | XEN MID |

Client Sample ID: SW-7

Lab Sample ID: 880-15112-7

Date Collected: 05/24/22 11:01

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 20:12       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26241        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26239        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 03:38       | SM      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

Client Sample ID: SW-7

Lab Sample ID: 880-15112-7

Date Collected: 05/24/22 11:01

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26202        | 05/24/22 20:38       | CH      | XEN MID |

Client Sample ID: SW-8

Lab Sample ID: 880-15112-8

Date Collected: 05/24/22 11:02

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 20:32       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26241        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26239        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 03:59       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26202        | 05/24/22 20:47       | CH      | XEN MID |

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------|
| Texas                                                                                                                                                                                                 | NELAP       | T104704400-21-22      | 06-30-22        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte         |
| 8015 NM                                                                                                                                                                                               |             | Solid                 | Total TPH       |
| Total BTEX                                                                                                                                                                                            |             | Solid                 | Total BTEX      |

## Method Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15112-1  
SDG: Eddy Co, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 880-15112-1   | SW-1             | Solid  | 05/24/22 10:55 | 05/24/22 14:15 |
| 880-15112-2   | SW-2             | Solid  | 05/24/22 10:56 | 05/24/22 14:15 |
| 880-15112-3   | SW-3             | Solid  | 05/24/22 10:57 | 05/24/22 14:15 |
| 880-15112-4   | SW-4             | Solid  | 05/24/22 10:58 | 05/24/22 14:15 |
| 880-15112-5   | SW-5             | Solid  | 05/24/22 10:59 | 05/24/22 14:15 |
| 880-15112-6   | SW-6             | Solid  | 05/24/22 11:00 | 05/24/22 14:15 |
| 880-15112-7   | SW-7             | Solid  | 05/24/22 11:01 | 05/24/22 14:15 |
| 880-15112-8   | SW-8             | Solid  | 05/24/22 11:02 | 05/24/22 14:15 |

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Environment Testing  
Xenco

### Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Start on these First



880-15112 Chain of Custody

www.xenco.com Page 1 of 1

**Work Order Comments**

Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other ☐

Project Manager: Ashton Thielke

Company Name: Earth Systems R&R

Address: 4115 South C R 1297

City, State ZIP: Midland, Texas 79765

Phone: \_\_\_\_\_

Bill to (if different): Devon Energy

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State ZIP: \_\_\_\_\_

Email: athielke@earthsys.net

| Project Name            |                | Ross Draw Unit #75               |                                          | Turn Around  |          | Pres. Code                                                   |            | ANALYSIS REQUEST              |   |   |   |   |   |   |   |  |  |  |  | Preservative Codes                                              |
|-------------------------|----------------|----------------------------------|------------------------------------------|--------------|----------|--------------------------------------------------------------|------------|-------------------------------|---|---|---|---|---|---|---|--|--|--|--|-----------------------------------------------------------------|
| Project Number          | 1094           | <input type="checkbox"/> Routine | <input checked="" type="checkbox"/> Rush | Due Date     | Tomorrow | TAT starts the day received by the lab if received by 4:30pm | Parameters |                               |   |   |   |   |   |   |   |  |  |  |  | None NO                                                         |
| Project Location        | Eddy Co. NM    |                                  |                                          |              |          |                                                              |            |                               |   |   |   |   |   |   |   |  |  |  |  | DI Water H <sub>2</sub> O                                       |
| Sampler's Name          | Ashton Thielke |                                  |                                          |              |          |                                                              |            |                               |   |   |   |   |   |   |   |  |  |  |  | Cool Cool                                                       |
| PO #                    |                |                                  |                                          |              |          |                                                              |            |                               |   |   |   |   |   |   |   |  |  |  |  | HCL HC                                                          |
| SAMPLE RECEIPT          |                | Temp Blank                       | Yes No                                   | Wet Ice      | Yes No   | Thermometer ID                                               | Yes No     |                               |   |   |   |   |   |   |   |  |  |  |  | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>                   |
| Samples Received Intact | Yes No         | Yes No                           | Yes No                                   | Yes No       | Yes No   | Correction Factor                                            | Yes No     |                               |   |   |   |   |   |   |   |  |  |  |  | HP                                                              |
| Cooler Custody Seals    | Yes No         | Yes No                           | Yes No                                   | Yes No       | Yes No   | Temperature Reading                                          | Yes No     |                               |   |   |   |   |   |   |   |  |  |  |  | NaHSO <sub>4</sub> NABIS                                        |
| Sample Custody Seals    | Yes No         | Yes No                           | Yes No                                   | Yes No       | Yes No   | Corrected Temperature                                        | Yes No     |                               |   |   |   |   |   |   |   |  |  |  |  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |
| Total Containers        |                |                                  |                                          |              |          |                                                              |            |                               |   |   |   |   |   |   |   |  |  |  |  | Zn Acetate+NaOH Zn                                              |
| Sample Identification   |                | Matrix                           | Date Sampled                             | Time Sampled | Depth    | Grab/Comp                                                    | # of Cont  |                               |   |   |   |   |   |   |   |  |  |  |  | NaOH+Ascorbic Acid SAPC                                         |
| SW-1                    | S              | 5 24 22                          | 1055                                     |              |          | Grab/1                                                       | 1          | Chloride (M 300.0)            | X | X | X | X | X | X | X |  |  |  |  |                                                                 |
| SW-2                    | S              | 5 24 22                          | 1056                                     |              |          | Grab/1                                                       | 1          | TFH (8015M (GRO + DRO + MRO)) | X | X | X | X | X | X | X |  |  |  |  |                                                                 |
| SW-3                    | S              | 5 24 22                          | 1057                                     |              |          | Grab/1                                                       | 1          |                               | X | X | X | X | X | X | X |  |  |  |  |                                                                 |
| SW-4                    | S              | 5 24 22                          | 1058                                     |              |          | Grab/1                                                       | 1          |                               | X | X | X | X | X | X | X |  |  |  |  |                                                                 |
| SW-5                    | S              | 5 24 22                          | 1059                                     |              |          | Grab/1                                                       | 1          |                               | X | X | X | X | X | X | X |  |  |  |  |                                                                 |
| SW-6                    | S              | 5 24 22                          | 1100                                     |              |          | Grab/1                                                       | 1          |                               | X | X | X | X | X | X | X |  |  |  |  |                                                                 |
| SW-7                    | S              | 5 24 22                          | 1101                                     |              |          | Grab/1                                                       | 1          |                               | X | X | X | X | X | X | X |  |  |  |  |                                                                 |
| SW-8                    | S              | 5 24 22                          | 1102                                     |              |          | Grab/1                                                       | 1          |                               | X | X | X | X | X | X | X |  |  |  |  |                                                                 |

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn

**Circle Method(s) and Metal(s) to be analyzed** **TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471**

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| 1 <i>[Signature]</i>        | <i>[Signature]</i>      | 5/24/22   |                             |                         |           |
| 3 <i>[Signature]</i>        |                         | 14:13     |                             |                         |           |
| 5 <i>[Signature]</i>        |                         |           |                             |                         |           |

Revised Date: 06/25/2020 Rev. 2020.2

## Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-15112-1

SDG Number: Eddy Co, NM

Login Number: 15112

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-15113-1

Laboratory Sample Delivery Group: Eddy Co. NM  
Client Project/Site: Ross Draw Unit #75

**For:**

Earth Systems Response and Restoration  
4115 South County Road 1297  
Odessa, Texas 79765

Attn: Kris Williams

Authorized for release by:

5/25/2022 10:48:05 AM

Brianna Teel, Project Manager  
(432)704-5440

[Brianna.Teel@et.eurofinsus.com](mailto:Brianna.Teel@et.eurofinsus.com)

#### LINKS

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Laboratory Job ID: 880-15113-1  
SDG: Eddy Co. NM

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## Definitions/Glossary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

**Job ID: 880-15113-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-15113-1****Receipt**

The samples were received on 5/24/2022 2:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-26189 and analytical batch 880-26191 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-2 (880-15113-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-7 (880-15113-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-9 (880-15113-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

Client Sample ID: CS-1

Lab Sample ID: 880-15113-1

Date Collected: 05/24/22 10:45

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:53 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:53 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:53 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:53 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:53 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 20:53 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 20:53 | 1       |
| 1,4-Difluorobenzene (Surr)  | 87        |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 20:53 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 187    |           | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 21:00 | 1       |
| Diesel Range Organics (Over C10-C28) | 187    |           | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 21:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 21:00 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107       |           | 70 - 130 | 05/24/22 15:58 | 05/24/22 21:00 | 1       |
| o-Terphenyl    | 117       |           | 70 - 130 | 05/24/22 15:58 | 05/24/22 21:00 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1140   |           | 24.9 |     | mg/Kg |   |          | 05/24/22 20:56 | 5       |

Client Sample ID: CS-2

Lab Sample ID: 880-15113-2

Date Collected: 05/24/22 10:46

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 21:14 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 21:14 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 21:14 | 1       |
| m-Xylene & p-Xylene | <0.00404 | U         | 0.00404 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 21:14 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 21:14 | 1       |
| Xylenes, Total      | <0.00404 | U         | 0.00404 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 21:14 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 140       | S1+       | 70 - 130 | 05/24/22 14:26 | 05/24/22 21:14 | 1       |

Eurofins Midland

## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

Client Sample ID: CS-2

Lab Sample ID: 880-15113-2

Date Collected: 05/24/22 10:46

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 91        |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 21:14 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U         | 0.00404 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 64.1   |           | 49.9 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 22:03 | 1       |
| Diesel Range Organics (Over C10-C28) | 64.1      |           | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 22:03 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 22:03 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 109       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/24/22 22:03 | 1       |
| o-Terphenyl                          | 120       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/24/22 22:03 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 821    |           | 4.95 |     | mg/Kg |   |          | 05/24/22 21:05 | 1       |

Client Sample ID: CS-3

Lab Sample ID: 880-15113-3

Date Collected: 05/24/22 10:47

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:36 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:36 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:36 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:36 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:36 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:36 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 22:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 22:36 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Client Sample ID: CS-3

Lab Sample ID: 880-15113-3

Date Collected: 05/24/22 10:47

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 22:24 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 22:24 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 22:24 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 107       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/24/22 22:24 | 1       |
| o-Terphenyl                          | 118       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/24/22 22:24 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1130   |           | 25.0 |     | mg/Kg |   |          | 05/24/22 21:14 | 5       |

## Client Sample ID: CS-4

Lab Sample ID: 880-15113-4

Date Collected: 05/24/22 10:48

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:57 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:57 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:57 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:57 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:57 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 22:57 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 22:57 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 22:57 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 22:45 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 22:45 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 22:45 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 110       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/24/22 22:45 | 1       |
| o-Terphenyl                          | 119       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/24/22 22:45 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Client Sample ID: CS-4

Lab Sample ID: 880-15113-4

Date Collected: 05/24/22 10:48

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 610    |           | 4.99 |     | mg/Kg |   |          | 05/24/22 21:42 | 1       |

## Client Sample ID: CS-5

Lab Sample ID: 880-15113-5

Date Collected: 05/24/22 10:49

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:18 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:18 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:18 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:18 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:18 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:18 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 23:18 | 1       |
| 1,4-Difluorobenzene (Surr)  | 88        |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/24/22 23:18 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 23:06 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 23:06 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 23:06 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 107       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/24/22 23:06 | 1       |
| o-Terphenyl                          | 113       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/24/22 23:06 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1070   |           | 24.9 |     | mg/Kg |   |          | 05/24/22 21:51 | 5       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

Client Sample ID: CS-6

Lab Sample ID: 880-15113-6

Date Collected: 05/24/22 10:50

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:38 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:38 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:38 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:38 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:38 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:38 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 115       |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 23:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 88        |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 23:38 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 23:27 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 23:27 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 23:27 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107       |           | 70 - 130 | 05/24/22 15:58 | 05/24/22 23:27 | 1       |
| o-Terphenyl    | 119       |           | 70 - 130 | 05/24/22 15:58 | 05/24/22 23:27 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2390   |           | 24.8 |     | mg/Kg |   |          | 05/24/22 22:19 | 5       |

Client Sample ID: CS-7

Lab Sample ID: 880-15113-7

Date Collected: 05/24/22 10:51

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:59 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:59 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:59 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:59 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:59 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 23:59 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 147       | S1+       | 70 - 130 | 05/24/22 14:26 | 05/24/22 23:59 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

Client Sample ID: CS-7

Lab Sample ID: 880-15113-7

Date Collected: 05/24/22 10:51

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 100       |           | 70 - 130 | 05/24/22 14:26 | 05/24/22 23:59 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 23:48 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 23:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 23:48 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 107       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/24/22 23:48 | 1       |
| o-Terphenyl                          | 118       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/24/22 23:48 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 5900   |           | 50.4 |     | mg/Kg |   |          | 05/24/22 22:28 | 10      |

Client Sample ID: CS-8

Lab Sample ID: 880-15113-8

Date Collected: 05/24/22 10:52

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:20 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:20 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:20 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:20 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:20 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:20 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 128       |           | 70 - 130 | 05/24/22 14:26 | 05/25/22 00:20 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 05/24/22 14:26 | 05/25/22 00:20 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Client Sample ID: CS-8

## Lab Sample ID: 880-15113-8

Date Collected: 05/24/22 10:52

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 00:08 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 00:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 00:08 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 104       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 00:08 | 1       |
| o-Terphenyl                          | 115       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 00:08 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1750   |           | 24.9 |     | mg/Kg |   |          | 05/24/22 22:37 | 5       |

## Client Sample ID: CS-9

## Lab Sample ID: 880-15113-9

Date Collected: 05/24/22 10:53

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:40 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:40 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:40 | 1       |
| m-Xylene & p-Xylene         | <0.00396  | U         | 0.00396  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:40 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:40 | 1       |
| Xylenes, Total              | <0.00396  | U         | 0.00396  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 00:40 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 136       | S1+       | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/25/22 00:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/25/22 00:40 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 00:29 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 00:29 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 00:29 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 91        |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 00:29 | 1       |
| o-Terphenyl                          | 101       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 00:29 | 1       |

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## Client Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Client Sample ID: CS-9

Lab Sample ID: 880-15113-9

Date Collected: 05/24/22 10:53

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 8520   |           | 50.5 |     | mg/Kg |   |          | 05/24/22 22:47 | 10      |

## Client Sample ID: CS-10

Lab Sample ID: 880-15113-10

Date Collected: 05/24/22 10:54

Matrix: Solid

Date Received: 05/24/22 14:15

Sample Depth: 4 - 4.5

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 01:01 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 01:01 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 01:01 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 01:01 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 01:01 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/24/22 14:26 | 05/25/22 01:01 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/25/22 01:01 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 |     |       |   | 05/24/22 14:26 | 05/25/22 01:01 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 05/25/22 09:40 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 05/25/22 09:35 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 00:50 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 00:50 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/24/22 15:58 | 05/25/22 00:50 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 102       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 00:50 | 1       |
| o-Terphenyl                          | 113       |           | 70 - 130 |     |       |   | 05/24/22 15:58 | 05/25/22 00:50 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 8060   |           | 49.7 |     | mg/Kg |   |          | 05/24/22 22:56 | 10      |

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## Surrogate Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |          |  |  |  |  |
|-----------------------------------|------------------------|------------------------------------------------|----------|--|--|--|--|
| Lab Sample ID                     | Client Sample ID       | BFB1                                           | DFBZ1    |  |  |  |  |
|                                   |                        | (70-130)                                       | (70-130) |  |  |  |  |
| 880-15112-A-1-A MS                | Matrix Spike           | 96                                             | 87       |  |  |  |  |
| 880-15112-A-1-B MSD               | Matrix Spike Duplicate | 99                                             | 93       |  |  |  |  |
| 880-15113-1                       | CS-1                   | 104                                            | 87       |  |  |  |  |
| 880-15113-2                       | CS-2                   | 140 S1+                                        | 91       |  |  |  |  |
| 880-15113-3                       | CS-3                   | 102                                            | 94       |  |  |  |  |
| 880-15113-4                       | CS-4                   | 103                                            | 97       |  |  |  |  |
| 880-15113-5                       | CS-5                   | 107                                            | 88       |  |  |  |  |
| 880-15113-6                       | CS-6                   | 115                                            | 88       |  |  |  |  |
| 880-15113-7                       | CS-7                   | 147 S1+                                        | 100      |  |  |  |  |
| 880-15113-8                       | CS-8                   | 128                                            | 93       |  |  |  |  |
| 880-15113-9                       | CS-9                   | 136 S1+                                        | 91       |  |  |  |  |
| 880-15113-10                      | CS-10                  | 97                                             | 95       |  |  |  |  |
| LCS 880-26189/1-A                 | Lab Control Sample     | 101                                            | 102      |  |  |  |  |
| LCSD 880-26189/2-A                | Lab Control Sample Dup | 99                                             | 101      |  |  |  |  |
| MB 880-26189/5-A                  | Method Blank           | 102                                            | 103      |  |  |  |  |
| <b>Surrogate Legend</b>           |                        |                                                |          |  |  |  |  |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |          |  |  |  |  |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |          |  |  |  |  |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |          |  |  |  |  |
|-------------------------|------------------------|------------------------------------------------|----------|--|--|--|--|
| Lab Sample ID           | Client Sample ID       | 1CO1                                           | OTPH1    |  |  |  |  |
|                         |                        | (70-130)                                       | (70-130) |  |  |  |  |
| 880-15113-1             | CS-1                   | 107                                            | 117      |  |  |  |  |
| 880-15113-1 MS          | CS-1                   | 95                                             | 98       |  |  |  |  |
| 880-15113-1 MSD         | CS-1                   | 95                                             | 97       |  |  |  |  |
| 880-15113-2             | CS-2                   | 109                                            | 120      |  |  |  |  |
| 880-15113-3             | CS-3                   | 107                                            | 118      |  |  |  |  |
| 880-15113-4             | CS-4                   | 110                                            | 119      |  |  |  |  |
| 880-15113-5             | CS-5                   | 107                                            | 113      |  |  |  |  |
| 880-15113-6             | CS-6                   | 107                                            | 119      |  |  |  |  |
| 880-15113-7             | CS-7                   | 107                                            | 118      |  |  |  |  |
| 880-15113-8             | CS-8                   | 104                                            | 115      |  |  |  |  |
| 880-15113-9             | CS-9                   | 91                                             | 101      |  |  |  |  |
| 880-15113-10            | CS-10                  | 102                                            | 113      |  |  |  |  |
| LCS 880-26196/2-A       | Lab Control Sample     | 111                                            | 116      |  |  |  |  |
| LCSD 880-26196/3-A      | Lab Control Sample Dup | 114                                            | 119      |  |  |  |  |
| MB 880-26196/1-A        | Method Blank           | 106                                            | 122      |  |  |  |  |
| <b>Surrogate Legend</b> |                        |                                                |          |  |  |  |  |
| 1CO = 1-Chlorooctane    |                        |                                                |          |  |  |  |  |
| OTPH = o-Terphenyl      |                        |                                                |          |  |  |  |  |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26189/5-A

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26189

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/24/22 14:26 | 05/24/22 17:46 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 | 05/24/22 14:26 | 05/24/22 17:46 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 | 05/24/22 14:26 | 05/24/22 17:46 | 1       |

Lab Sample ID: LCS 880-26189/1-A

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26189

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09248    |               | mg/Kg |   | 92   | 70 - 130    |
| Toluene             | 0.100       | 0.09550    |               | mg/Kg |   | 96   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.08540    |               | mg/Kg |   | 85   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1780     |               | mg/Kg |   | 89   | 70 - 130    |
| o-Xylene            | 0.100       | 0.09043    |               | mg/Kg |   | 90   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 101           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102           |               | 70 - 130 |

Lab Sample ID: LCSD 880-26189/2-A

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26189

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.08799     |                | mg/Kg |   | 88   | 70 - 130    | 5   | 35        |
| Toluene             | 0.100       | 0.08955     |                | mg/Kg |   | 90   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | 0.100       | 0.08059     |                | mg/Kg |   | 81   | 70 - 130    | 6   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1648      |                | mg/Kg |   | 82   | 70 - 130    | 8   | 35        |
| o-Xylene            | 0.100       | 0.08433     |                | mg/Kg |   | 84   | 70 - 130    | 7   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 99             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101            |                | 70 - 130 |

Lab Sample ID: 880-15112-A-1-A MS

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26189

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00199      | U F1             | 0.0996      | 0.06244   | F1           | mg/Kg |   | 63   | 70 - 130    |
| Toluene | <0.00199      | U                | 0.0996      | 0.07721   |              | mg/Kg |   | 78   | 70 - 130    |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-15112-A-1-A MS

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26189

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00199      | U F1             | 0.0996      | 0.06921   | F1           | mg/Kg |   | 69   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.199       | 0.1382    | F1           | mg/Kg |   | 69   | 70 - 130    |
| o-Xylene            | <0.00199      | U                | 0.0996      | 0.07044   |              | mg/Kg |   | 71   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 96           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 87           |              | 70 - 130 |

Lab Sample ID: 880-15112-A-1-B MSD

Matrix: Solid

Analysis Batch: 26191

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26189

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00199      | U F1             | 0.101       | 0.06829    | F1            | mg/Kg |   | 68   | 70 - 130    | 9   | 35        |
| Toluene             | <0.00199      | U                | 0.101       | 0.07764    |               | mg/Kg |   | 77   | 70 - 130    | 1   | 35        |
| Ethylbenzene        | <0.00199      | U F1             | 0.101       | 0.07055    |               | mg/Kg |   | 70   | 70 - 130    | 2   | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.201       | 0.1425     |               | mg/Kg |   | 71   | 70 - 130    | 3   | 35        |
| o-Xylene            | <0.00199      | U                | 0.101       | 0.07277    |               | mg/Kg |   | 72   | 70 - 130    | 3   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 99            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-26196/1-A

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26196

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 19:57 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 19:57 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/24/22 15:58 | 05/24/22 19:57 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 106          |              | 70 - 130 | 05/24/22 15:58 | 05/24/22 19:57 | 1       |
| o-Terphenyl    | 122          |              | 70 - 130 | 05/24/22 15:58 | 05/24/22 19:57 | 1       |

Lab Sample ID: LCS 880-26196/2-A

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26196

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1013       |               | mg/Kg |   | 101  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 934.5      |               | mg/Kg |   | 93   | 70 - 130    |

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## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-26196/2-A

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26196

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 111       |           | 70 - 130 |
| o-Terphenyl    | 116       |           | 70 - 130 |

Lab Sample ID: LCSD 880-26196/3-A

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26196

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1060        |                | mg/Kg |   | 106  | 70 - 130    | 5   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 941.2       |                | mg/Kg |   | 94   | 70 - 130    | 1   | 20        |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 114       |           | 70 - 130 |
| o-Terphenyl    | 119       |           | 70 - 130 |

Lab Sample ID: 880-15113-1 MS

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 26196

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 1000        | 930.1     |              | mg/Kg |   | 93   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 187           |                  | 1000        | 1119      |              | mg/Kg |   | 93   | 70 - 130    |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 95        |           | 70 - 130 |
| o-Terphenyl    | 98        |           | 70 - 130 |

Lab Sample ID: 880-15113-1 MSD

Matrix: Solid

Analysis Batch: 26132

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 26196

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 999         | 938.7      |               | mg/Kg |   | 94   | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | 187           |                  | 999         | 1107       |               | mg/Kg |   | 92   | 70 - 130    | 1   | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 95        |           | 70 - 130 |
| o-Terphenyl    | 97        |           | 70 - 130 |

Eurofins Midland

## QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26192/1-A

Matrix: Solid

Analysis Batch: 26202

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 |     | mg/Kg |   |          | 05/24/22 18:38 | 1       |

Lab Sample ID: LCS 880-26192/2-A

Matrix: Solid

Analysis Batch: 26202

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250            | 248.1         |                  | mg/Kg |   | 99   | 90 - 110       |

Lab Sample ID: LCSD 880-26192/3-A

Matrix: Solid

Analysis Batch: 26202

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 250            | 249.7          |                   | mg/Kg |   | 100  | 90 - 110       | 1   | 20           |

Lab Sample ID: 880-15113-3 MS

Matrix: Solid

Analysis Batch: 26202

Client Sample ID: CS-3

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 1130             |                     | 1250           | 2349         |                 | mg/Kg |   | 98   | 90 - 110       |

Lab Sample ID: 880-15113-3 MSD

Matrix: Solid

Analysis Batch: 26202

Client Sample ID: CS-3

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 1130             |                     | 1250           | 2343          |                  | mg/Kg |   | 97   | 90 - 110       | 0   | 20           |

## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## GC VOA

## Prep Batch: 26189

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-15113-1         | CS-1                   | Total/NA  | Solid  | 5035   |            |
| 880-15113-2         | CS-2                   | Total/NA  | Solid  | 5035   |            |
| 880-15113-3         | CS-3                   | Total/NA  | Solid  | 5035   |            |
| 880-15113-4         | CS-4                   | Total/NA  | Solid  | 5035   |            |
| 880-15113-5         | CS-5                   | Total/NA  | Solid  | 5035   |            |
| 880-15113-6         | CS-6                   | Total/NA  | Solid  | 5035   |            |
| 880-15113-7         | CS-7                   | Total/NA  | Solid  | 5035   |            |
| 880-15113-8         | CS-8                   | Total/NA  | Solid  | 5035   |            |
| 880-15113-9         | CS-9                   | Total/NA  | Solid  | 5035   |            |
| 880-15113-10        | CS-10                  | Total/NA  | Solid  | 5035   |            |
| MB 880-26189/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-26189/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-26189/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-15112-A-1-A MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-15112-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 26191

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-15113-1         | CS-1                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15113-2         | CS-2                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15113-3         | CS-3                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15113-4         | CS-4                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15113-5         | CS-5                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15113-6         | CS-6                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15113-7         | CS-7                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15113-8         | CS-8                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15113-9         | CS-9                   | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15113-10        | CS-10                  | Total/NA  | Solid  | 8021B  | 26189      |
| MB 880-26189/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 26189      |
| LCS 880-26189/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 26189      |
| LCSD 880-26189/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-A-1-A MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 26189      |
| 880-15112-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 26189      |

## Analysis Batch: 26242

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-15113-1   | CS-1             | Total/NA  | Solid  | Total BTEX |            |
| 880-15113-2   | CS-2             | Total/NA  | Solid  | Total BTEX |            |
| 880-15113-3   | CS-3             | Total/NA  | Solid  | Total BTEX |            |
| 880-15113-4   | CS-4             | Total/NA  | Solid  | Total BTEX |            |
| 880-15113-5   | CS-5             | Total/NA  | Solid  | Total BTEX |            |
| 880-15113-6   | CS-6             | Total/NA  | Solid  | Total BTEX |            |
| 880-15113-7   | CS-7             | Total/NA  | Solid  | Total BTEX |            |
| 880-15113-8   | CS-8             | Total/NA  | Solid  | Total BTEX |            |
| 880-15113-9   | CS-9             | Total/NA  | Solid  | Total BTEX |            |
| 880-15113-10  | CS-10            | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## GC Semi VOA

## Analysis Batch: 26132

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-15113-1        | CS-1                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-2        | CS-2                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-3        | CS-3                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-4        | CS-4                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-5        | CS-5                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-6        | CS-6                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-7        | CS-7                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-8        | CS-8                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-9        | CS-9                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-10       | CS-10                  | Total/NA  | Solid  | 8015B NM | 26196      |
| MB 880-26196/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 26196      |
| LCS 880-26196/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 26196      |
| LCSD 880-26196/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-1 MS     | CS-1                   | Total/NA  | Solid  | 8015B NM | 26196      |
| 880-15113-1 MSD    | CS-1                   | Total/NA  | Solid  | 8015B NM | 26196      |

## Prep Batch: 26196

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-15113-1        | CS-1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-2        | CS-2                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-3        | CS-3                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-4        | CS-4                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-5        | CS-5                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-6        | CS-6                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-7        | CS-7                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-8        | CS-8                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-9        | CS-9                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-10       | CS-10                  | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-26196/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-26196/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-26196/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-1 MS     | CS-1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-15113-1 MSD    | CS-1                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 26238

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-15113-1   | CS-1             | Total/NA  | Solid  | 8015 NM |            |
| 880-15113-2   | CS-2             | Total/NA  | Solid  | 8015 NM |            |
| 880-15113-3   | CS-3             | Total/NA  | Solid  | 8015 NM |            |
| 880-15113-4   | CS-4             | Total/NA  | Solid  | 8015 NM |            |
| 880-15113-5   | CS-5             | Total/NA  | Solid  | 8015 NM |            |
| 880-15113-6   | CS-6             | Total/NA  | Solid  | 8015 NM |            |
| 880-15113-7   | CS-7             | Total/NA  | Solid  | 8015 NM |            |
| 880-15113-8   | CS-8             | Total/NA  | Solid  | 8015 NM |            |
| 880-15113-9   | CS-9             | Total/NA  | Solid  | 8015 NM |            |
| 880-15113-10  | CS-10            | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## HPLC/IC

## Leach Batch: 26192

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-15113-1        | CS-1                   | Soluble   | Solid  | DI Leach |            |
| 880-15113-2        | CS-2                   | Soluble   | Solid  | DI Leach |            |
| 880-15113-3        | CS-3                   | Soluble   | Solid  | DI Leach |            |
| 880-15113-4        | CS-4                   | Soluble   | Solid  | DI Leach |            |
| 880-15113-5        | CS-5                   | Soluble   | Solid  | DI Leach |            |
| 880-15113-6        | CS-6                   | Soluble   | Solid  | DI Leach |            |
| 880-15113-7        | CS-7                   | Soluble   | Solid  | DI Leach |            |
| 880-15113-8        | CS-8                   | Soluble   | Solid  | DI Leach |            |
| 880-15113-9        | CS-9                   | Soluble   | Solid  | DI Leach |            |
| 880-15113-10       | CS-10                  | Soluble   | Solid  | DI Leach |            |
| MB 880-26192/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-26192/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-26192/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-15113-3 MS     | CS-3                   | Soluble   | Solid  | DI Leach |            |
| 880-15113-3 MSD    | CS-3                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 26202

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-15113-1        | CS-1                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-2        | CS-2                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-3        | CS-3                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-4        | CS-4                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-5        | CS-5                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-6        | CS-6                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-7        | CS-7                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-8        | CS-8                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-9        | CS-9                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-10       | CS-10                  | Soluble   | Solid  | 300.0  | 26192      |
| MB 880-26192/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 26192      |
| LCS 880-26192/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 26192      |
| LCSD 880-26192/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-3 MS     | CS-3                   | Soluble   | Solid  | 300.0  | 26192      |
| 880-15113-3 MSD    | CS-3                   | Soluble   | Solid  | 300.0  | 26192      |

## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

Client Sample ID: CS-1

Lab Sample ID: 880-15113-1

Date Collected: 05/24/22 10:45

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 20:53       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26242        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26238        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/24/22 21:00       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 26202        | 05/24/22 20:56       | CH      | XEN MID |

Client Sample ID: CS-2

Lab Sample ID: 880-15113-2

Date Collected: 05/24/22 10:46

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.95 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 21:14       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26242        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26238        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/24/22 22:03       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26202        | 05/24/22 21:05       | CH      | XEN MID |

Client Sample ID: CS-3

Lab Sample ID: 880-15113-3

Date Collected: 05/24/22 10:47

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 22:36       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26242        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26238        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/24/22 22:24       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 26202        | 05/24/22 21:14       | CH      | XEN MID |

Client Sample ID: CS-4

Lab Sample ID: 880-15113-4

Date Collected: 05/24/22 10:48

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 22:57       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26242        | 05/25/22 09:40       | SM      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Client Sample ID: CS-4

## Lab Sample ID: 880-15113-4

Date Collected: 05/24/22 10:48

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26238        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/24/22 22:45       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26202        | 05/24/22 21:42       | CH      | XEN MID |

## Client Sample ID: CS-5

## Lab Sample ID: 880-15113-5

Date Collected: 05/24/22 10:49

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 23:18       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26242        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26238        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/24/22 23:06       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 26202        | 05/24/22 21:51       | CH      | XEN MID |

## Client Sample ID: CS-6

## Lab Sample ID: 880-15113-6

Date Collected: 05/24/22 10:50

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 23:38       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26242        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26238        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/24/22 23:27       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 26202        | 05/24/22 22:19       | CH      | XEN MID |

## Client Sample ID: CS-7

## Lab Sample ID: 880-15113-7

Date Collected: 05/24/22 10:51

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/24/22 23:59       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26242        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26238        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/24/22 23:48       | SM      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

## Client Sample ID: CS-7

## Lab Sample ID: 880-15113-7

Date Collected: 05/24/22 10:51

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 26202        | 05/24/22 22:28       | CH      | XEN MID |

## Client Sample ID: CS-8

## Lab Sample ID: 880-15113-8

Date Collected: 05/24/22 10:52

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/25/22 00:20       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26242        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26238        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 00:08       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 26202        | 05/24/22 22:37       | CH      | XEN MID |

## Client Sample ID: CS-9

## Lab Sample ID: 880-15113-9

Date Collected: 05/24/22 10:53

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/25/22 00:40       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26242        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26238        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 00:29       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 26202        | 05/24/22 22:47       | CH      | XEN MID |

## Client Sample ID: CS-10

## Lab Sample ID: 880-15113-10

Date Collected: 05/24/22 10:54

Matrix: Solid

Date Received: 05/24/22 14:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 26189        | 05/24/22 14:26       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26191        | 05/25/22 01:01       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26242        | 05/25/22 09:40       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26238        | 05/25/22 09:35       | SM      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 26196        | 05/24/22 15:58       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 26132        | 05/25/22 00:50       | SM      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 26192        | 05/24/22 15:23       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 26202        | 05/24/22 22:56       | CH      | XEN MID |

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

- 1
- 2
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### Accreditation/Certification Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

#### Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------|
| Texas                                                                                                                                                                                                 | NELAP       | T104704400-21-22      | 06-30-22        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte         |
| 8015 NM                                                                                                                                                                                               |             | Solid                 | Total TPH       |
| Total BTEX                                                                                                                                                                                            |             | Solid                 | Total BTEX      |

## Method Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## Sample Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #75

Job ID: 880-15113-1  
SDG: Eddy Co. NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth   |
|---------------|------------------|--------|----------------|----------------|---------|
| 880-15113-1   | CS-1             | Solid  | 05/24/22 10:45 | 05/24/22 14:15 | 4 - 4.5 |
| 880-15113-2   | CS-2             | Solid  | 05/24/22 10:46 | 05/24/22 14:15 | 4 - 4.5 |
| 880-15113-3   | CS-3             | Solid  | 05/24/22 10:47 | 05/24/22 14:15 | 4 - 4.5 |
| 880-15113-4   | CS-4             | Solid  | 05/24/22 10:48 | 05/24/22 14:15 | 4 - 4.5 |
| 880-15113-5   | CS-5             | Solid  | 05/24/22 10:49 | 05/24/22 14:15 | 4 - 4.5 |
| 880-15113-6   | CS-6             | Solid  | 05/24/22 10:50 | 05/24/22 14:15 | 4 - 4.5 |
| 880-15113-7   | CS-7             | Solid  | 05/24/22 10:51 | 05/24/22 14:15 | 4 - 4.5 |
| 880-15113-8   | CS-8             | Solid  | 05/24/22 10:52 | 05/24/22 14:15 | 4 - 4.5 |
| 880-15113-9   | CS-9             | Solid  | 05/24/22 10:53 | 05/24/22 14:15 | 4 - 4.5 |
| 880-15113-10  | CS-10            | Solid  | 05/24/22 10:54 | 05/24/22 14:15 | 4 - 4.5 |

## Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
 Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
 Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199



Environmental Testing  
 Xenco



880-15113 Chain of Custody

|                                       |  |                              |  |              |  |
|---------------------------------------|--|------------------------------|--|--------------|--|
| Project Manager: Ashton Thielke       |  | Bill to (if different)       |  | Devon Energy |  |
| Company Name: Earth Systems R&R       |  | Company Name                 |  |              |  |
| Address: 4115 South C.R. 1297         |  | Address                      |  |              |  |
| City, State ZIP: Midland, Texas 79765 |  | City, State ZIP              |  |              |  |
| Phone                                 |  | Email: athielke@earthsys.net |  |              |  |

|                  |                    |                                                                           |            |                  |  |  |  |  |  |  |  |  |  |                                                       |  |  |  |  |  |  |  |  |  |
|------------------|--------------------|---------------------------------------------------------------------------|------------|------------------|--|--|--|--|--|--|--|--|--|-------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| Project Name     | Ross Draw Unit #75 | Turn Around                                                               | Pres. Code | ANALYSIS REQUEST |  |  |  |  |  |  |  |  |  | Preservative Codes                                    |  |  |  |  |  |  |  |  |  |
| Project Number   | 1094               | <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush |            |                  |  |  |  |  |  |  |  |  |  | None NO DI Water H <sub>2</sub> O                     |  |  |  |  |  |  |  |  |  |
| Project Location | Eddy Co NM         | Due Date                                                                  | Tomorrow   |                  |  |  |  |  |  |  |  |  |  | Cool Cool MeOH Me                                     |  |  |  |  |  |  |  |  |  |
| Sampler's Name   | Ashton Thielke     | TAT starts the day received by the lab if received by 4:30pm              |            |                  |  |  |  |  |  |  |  |  |  | HCL HC HNO <sub>3</sub> HN                            |  |  |  |  |  |  |  |  |  |
| PO #             |                    |                                                                           |            |                  |  |  |  |  |  |  |  |  |  | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> NaOH Na |  |  |  |  |  |  |  |  |  |

|                          |  |            |    |                       |    |         |     |    |
|--------------------------|--|------------|----|-----------------------|----|---------|-----|----|
| SAMPLE RECEIPT           |  | Temp Blank |    | Yes                   | No | Wet Ice | Yes | No |
| Samples Received Intact: |  | Yes        | No | Thermometer ID        |    |         |     |    |
| Cooler Custody Seals     |  | Yes        | No | Correction Factor     |    |         |     |    |
| Sample Custody Seals     |  | Yes        | No | Temperature Reading   |    |         |     |    |
| Total Containers         |  |            |    | Corrected Temperature |    |         |     |    |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | Chloride (M 300.0) <th>TPH (8015M (GRO + DRO + MRO)) <th>BTEX 8021B <th>Sample Comments</th> </th></th> | TPH (8015M (GRO + DRO + MRO)) <th>BTEX 8021B <th>Sample Comments</th> </th> | BTEX 8021B <th>Sample Comments</th> | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------|-----------------|
| CS-1                  | S      | 5/24/22      | 1045         | 4-4.5 | Grab/     | 1         |            | X                                                                                                       | X                                                                           | X                                   |                 |
| CS-2                  | S      | 5/24/22      | 1046         | 4-4.5 | Grab/     | 1         |            | X                                                                                                       | X                                                                           | X                                   |                 |
| CS-3                  | S      | 5/24/22      | 1047         | 4-4.5 | Grab/     | 1         |            | X                                                                                                       | X                                                                           | X                                   |                 |
| CS-4                  | S      | 5/24/22      | 1048         | 4-4.5 | Grab/     | 1         |            | X                                                                                                       | X                                                                           | X                                   |                 |
| CS-5                  | S      | 5/24/22      | 1049         | 4-4.5 | Grab/     | 1         |            | X                                                                                                       | X                                                                           | X                                   |                 |
| CS-6                  | S      | 5/24/22      | 1050         | 4-4.5 | Grab/     | 1         |            | X                                                                                                       | X                                                                           | X                                   |                 |
| CS-7                  | S      | 5/24/22      | 1051         | 4-4.5 | Grab/     | 1         |            | X                                                                                                       | X                                                                           | X                                   |                 |
| CS-8                  | S      | 5/24/22      | 1052         | 4-4.5 | Grab/     | 1         |            | X                                                                                                       | X                                                                           | X                                   |                 |
| CS-9                  | S      | 5/24/22      | 1053         | 4-4.5 | Grab/     | 1         |            | X                                                                                                       | X                                                                           | X                                   |                 |
| CS-10                 | S      | 5/24/22      | 1054         | 4-4.5 | Grab/     | 1         |            | X                                                                                                       | X                                                                           | X                                   |                 |

|                                              |  |                                                                                                                    |  |
|----------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|--|
| Total 200.7 / 6010 200.8 / 6020:             |  | 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |  |
| Circle Method(s) and Metal(s) to be analyzed |  | TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471                |  |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| 1 <i>[Signature]</i>         | 2 <i>[Signature]</i>     | 5/24/22   |                              |                          |           |
| 3 <i>[Signature]</i>         | 4 <i>[Signature]</i>     | 5/24/22   |                              |                          |           |
| 5 <i>[Signature]</i>         | 6 <i>[Signature]</i>     | 5/24/22   |                              |                          |           |

Revised Date: 06/25/2020 Rev: 2020.2

## Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-15113-1

SDG Number: Eddy Co. NM

Login Number: 15113

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |

**From:** [Anderson, Lacey](#)  
**To:** [Woodall, Dale](#); [Raley, Jim](#)  
**Cc:** [Ashton Thielke](#)  
**Subject:** RE: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 104963  
**Date:** Friday, May 6, 2022 2:07:50 PM

---

Thank you Dale, I have CC'D Ashton from Earth Systems in this email so he can keep records as well.

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**From:** Woodall, Dale <Dale.Woodall@dvn.com>  
**Sent:** Friday, May 6, 2022 12:41 PM  
**To:** Anderson, Lacey <Lacey.Anderson@dvn.com>; Raley, Jim <Jim.Raley@dvn.com>  
**Subject:** FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 104963

This is for the Ross Draw Unit #75 spill.

Here is the link

<https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/data/incidents/IncidentDetails.aspx?id=nAPP2212641852>

A C-141 will need to be filed with updated spill information including recovered volumes.

I will track the progress of the spill as I have reported it.

Let me know if you have any questions.

Dale

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**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>  
**Sent:** Friday, May 6, 2022 11:38 AM  
**To:** Woodall, Dale <[Dale.Woodall@dvn.com](mailto:Dale.Woodall@dvn.com)>  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 104963

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2212641852, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2212641852, on all subsequent C-141 submissions and communications

**From:** [Ashton Thielke](#)  
**To:** [Anderson, Lacey](#)  
**Cc:** [Jim.Raley@dvsn.com](mailto:Jim.Raley@dvsn.com); [Woodall, Dale](#); [Kristopher Williams](#)  
**Subject:** Ross Draw Unit #75 (nAPP2212641852)  
**Date:** Wednesday, May 11, 2022 11:23:00 AM  
**Attachments:** [Nearest Water Well.pdf](#)  
[Assessment Notes 5.10.22 AT.pdf](#)  
[Assessment Map.pdf](#)  
[Photolog.pdf](#)  
[Ross Draw Unit #38 Monitoring Well Data +105ft.pdf](#)

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Good morning Devon Energy,

A site assessment was performed yesterday (5.10.22) at the above referenced site. Samples have been submitted to the laboratory for analysis (BTEX, TPH, & Chloride) and sample results should be received by the end of the week. Please see the attached Assessment Map, Assessment Notes 5.10.22 AT, Photolog, and Nearest Water Well.

Remediation Closure Criteria based off 19.15.29 NMAC: **(Surface – 4 ft below ground surface)**

Chloride – 600 mg/kg  
TPH (GRO+DRO+MRO) – 100 mg/kg  
BTEX – 50 mg/kg  
Benzene – 10 mg/kg

Remediation Closure Criteria based off 19.15.29 NMAC: **(4 ft below ground surface and beyond)**

Chloride – 20,000 mg/kg  
TPH (GRO+DRO+MRO) – 2,500 mg/kg  
Tph (GRO+DRO) – 1,000 mg/kg  
BTEX – 50 mg/kg  
Benzene – 10 mg/kg

Remediation will be held to the strictest standard in accordance with 13.15.29 NMAC for the top 4 feet in the excavation.

Evidence of recent and local groundwater data allows for cleanup standards to change after 4 feet in the excavation. (Dry well drilled Dec/2020 to 105ft)

In this case, Chloride standards change from 600 mg/kg to 20,000 mg/kg after 4 feet.

An official Scope of Work (SOW) will be created once laboratory results are received. Let me know if you have any questions.

Thanks,

**Ashton Thielke** | Project Manager  
4115 South C.R. 1297 | Odessa, Texas 79765  
M: 432-813-8603 | C: 281-753-5659 | [athielke@earthsys.net](mailto:athielke@earthsys.net)



regarding the remediation of this release.

**NOTE:** As of December 2019, NMOCD has discontinued the use of the “RP” number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

[ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

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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 114876

CONDITIONS

|                                                                                                       |                                                           |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID:<br>6137                                            |
|                                                                                                       | Action Number:<br>114876                                  |
|                                                                                                       | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition                | Condition Date |
|------------|--------------------------|----------------|
| jnobui     | Closure Report Approved. | 8/24/2022      |