

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996

Release Volume Estimate Ogden State 5a Release

The estimate provided below relies upon general data, site-specific data, assumptions, and arithmetic. We believe the calculation presented below represents a reasonable estimate of a release volume of 1399 ± barrels.

| | |
|-------------------|--|
| 29600 | sq ft of release footprint from Google Earth |
| 4.3 | ft depth of sampling |
| 127280 | cubic feet of soil/rock 0-4.3 feet below footprint |
| 0.0283 | cu ft/m ³ conversion factor |
| 3602.024 | cu meters of earth below footprint to 4.3 feet |
| 1450 | Kg/m ³ density of silty clay from internet sources |
| 5,222,934.80 | kg - total weight of soil beneath footprint to 4.3 ft |
| 3653 | mg/kg - average chloride in samples beneath footprint - 100 (background) |
| 19,079,380,824.40 | mg chloride in soil 0-4.3 feet below footprint |
| 85,800.00 | mg/L chloride in release water (see attached analysis) |
| 222,370.41 | Liters - released assuming all chloride from produced water |
| 159 | liters/bbl. conversion factor |
| 1399 | bbl. Released |

Imperative Water Analysis Report



SYSTEM IDENTIFICATION

Company: Murchison Oil and Gas
Location: Ogden 7
Sample Source: Wellhead
Account Rep: Danny Gonzales

Sample ID#: W-31741
Sample Date: 10-04-2020
Report Date: 10-12-2020

WATER CHEMISTRY

CATIONS

| | |
|------------------|--------|
| Calcium(as Ca) | 4383 |
| Magnesium(as Mg) | 1506 |
| Barium(as Ba) | 0.0952 |
| Strontium(as Sr) | 91.39 |
| Sodium(as Na) | 51059 |
| Potassium(as K) | 489.70 |
| Lithium(as Li) | 13.49 |
| Iron(as Fe) | 1.20 |
| Manganese(as Mn) | 1.44 |

ANIONS

| | |
|---|--------|
| Chloride(as Cl) | 89600 |
| Sulfate(as SO ₄) | 1210 |
| Dissolved CO ₂ (as CO ₂) | 160.00 |
| Bicarbonate(as HCO ₃) | 1684 |
| H ₂ S (as H ₂ S) | 85.50 |
| Boron(as B) | 14.66 |

PARAMETERS

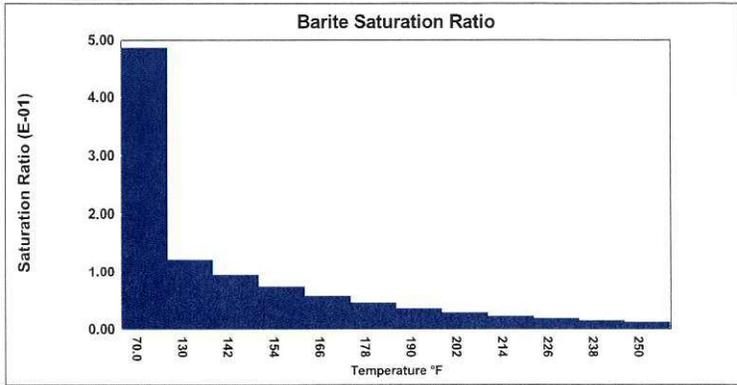
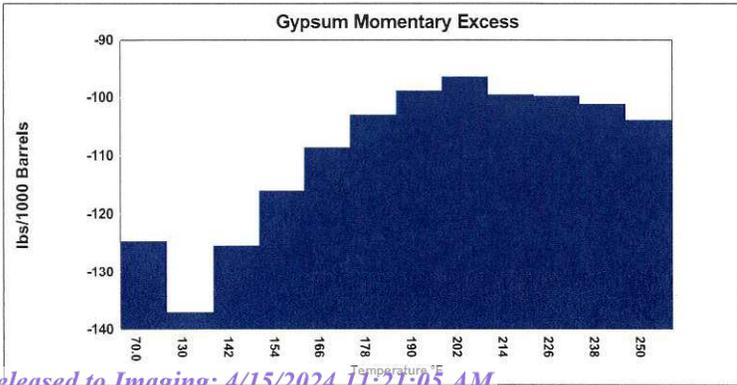
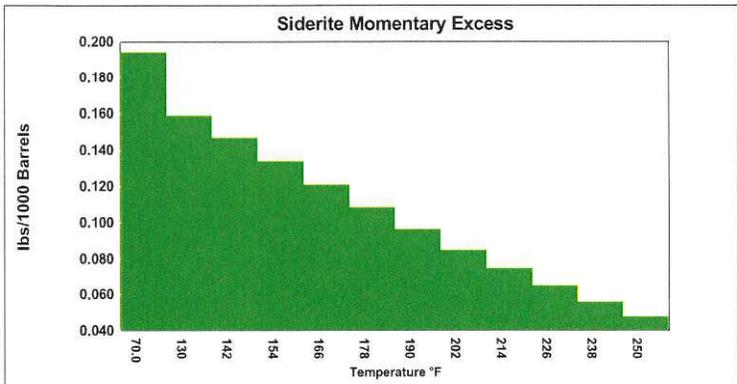
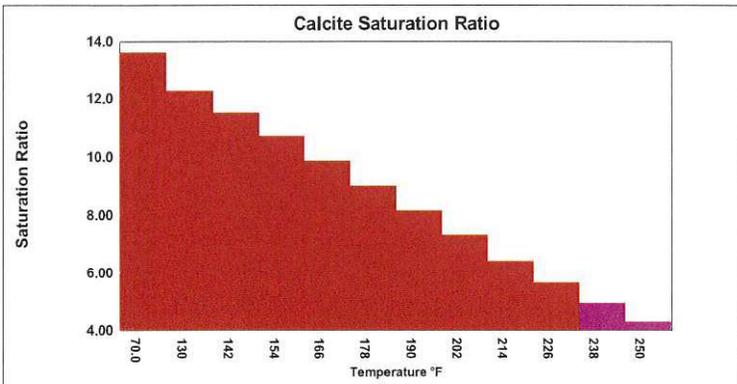
| | | | |
|-----------------|--------|--------------|--------|
| Temperature(°F) | 67.70 | Sample pH | 6.60 |
| Conductivity | 145518 | Sp.Gr.(g/mL) | 1.100 |
| Resistivity | 6.87 | T.D.S. | 160684 |

SCALE AND CORROSION POTENTIAL

| Temp. (°F) | Press. (atm) | Calcite CaCO ₃ | Anhydrite CaSO ₄ | Gypsum CaSO ₄ *2H ₂ O | Barite BaSO ₄ | Celestite SrSO ₄ | Siderite FeCO ₃ | Mackinawite FeS | CO ₂ (mpy) | pCO ₂ (atm) | | | | | | | |
|------------|--------------|---------------------------|-----------------------------|---|--------------------------|-----------------------------|----------------------------|-----------------|-----------------------|------------------------|---------|------|--------|-------|---------|-------|-------|
| 70.00 | 1.000 | 13.60 | 0.300 | 0.471 | -231.98 | 0.657 | -124.84 | 0.486 | -0.0656 | 0.303 | -106.11 | 2.61 | 0.194 | 4.63 | 0.0888 | 0.122 | 0.243 |
| 130.00 | 10.000 | 12.25 | 0.192 | 0.545 | -141.72 | 0.584 | -137.19 | 0.120 | -0.454 | 0.261 | -116.55 | 3.49 | 0.159 | 1.77 | 0.0450 | 0.755 | 2.43 |
| 142.00 | 19.000 | 11.51 | 0.173 | 0.594 | -111.81 | 0.596 | -125.54 | 0.0928 | -0.605 | 0.250 | -120.11 | 3.54 | 0.146 | 1.42 | 0.0298 | 1.21 | 4.61 |
| 154.00 | 28.000 | 10.70 | 0.156 | 0.662 | -81.04 | 0.607 | -116.14 | 0.0723 | -0.794 | 0.240 | -123.96 | 3.55 | 0.133 | 1.13 | 0.0114 | 1.72 | 6.80 |
| 166.00 | 37.000 | 9.86 | 0.139 | 0.751 | -51.09 | 0.614 | -108.74 | 0.0566 | -1.03 | 0.229 | -128.18 | 3.51 | 0.121 | 0.899 | -0.0108 | 2.06 | 8.98 |
| 178.00 | 46.000 | 9.00 | 0.124 | 0.867 | -23.09 | 0.620 | -103.09 | 0.0446 | -1.32 | 0.218 | -132.78 | 3.44 | 0.108 | 0.713 | -0.0377 | 2.00 | 11.17 |
| 190.00 | 55.000 | 8.15 | 0.109 | 1.02 | 2.23 | 0.623 | -98.99 | 0.0353 | -1.69 | 0.207 | -137.79 | 3.33 | 0.0961 | 0.565 | -0.0702 | 1.01 | 13.35 |
| 202.00 | 64.000 | 7.31 | 0.0962 | 1.21 | 24.48 | 0.623 | -96.36 | 0.0280 | -2.13 | 0.197 | -143.29 | 3.20 | 0.0847 | 0.446 | -0.110 | 0.839 | 15.54 |
| 214.00 | 73.000 | 6.40 | 0.0851 | 1.44 | 43.55 | 0.615 | -99.63 | 0.0221 | -2.71 | 0.184 | -152.07 | 2.99 | 0.0744 | 0.339 | -0.164 | 1.05 | 17.72 |
| 226.00 | 82.000 | 5.64 | 0.0741 | 1.74 | 60.40 | 0.610 | -99.84 | 0.0177 | -3.39 | 0.174 | -158.95 | 2.82 | 0.0645 | 0.266 | -0.224 | 1.29 | 19.91 |
| 238.00 | 91.000 | 4.94 | 0.0641 | 2.14 | 74.63 | 0.603 | -101.22 | 0.0142 | -4.22 | 0.164 | -166.43 | 2.64 | 0.0555 | 0.208 | -0.297 | 1.56 | 22.09 |
| 250.00 | 100.000 | 4.30 | 0.0550 | 2.65 | 86.41 | 0.594 | -103.95 | 0.0115 | -5.24 | 0.154 | -174.69 | 2.45 | 0.0473 | 0.163 | -0.385 | 0.234 | 24.28 |

| | Lbs per xSAT 1000 Barrels |
|------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Calcite | 13.60 | 0.300 | 0.471 | -231.98 | 0.657 | -124.84 | 0.486 | -0.0656 |
| Anhydrite | 0.300 | 0.192 | 0.545 | -141.72 | 0.584 | -137.19 | 0.120 | -0.454 |
| Gypsum | 0.192 | 0.173 | 0.594 | -111.81 | 0.596 | -125.54 | 0.0928 | -0.605 |
| Barite | 0.173 | 0.156 | 0.662 | -81.04 | 0.607 | -116.14 | 0.0723 | -0.794 |
| Celestite | 0.156 | 0.139 | 0.751 | -51.09 | 0.614 | -108.74 | 0.0566 | -1.03 |
| Siderite | 0.139 | 0.124 | 0.867 | -23.09 | 0.620 | -103.09 | 0.0446 | -1.32 |
| Mackinawite | 0.124 | 0.109 | 1.02 | 2.23 | 0.623 | -98.99 | 0.0353 | -1.69 |
| CO ₂ | 0.109 | 0.0962 | 1.21 | 24.48 | 0.623 | -96.36 | 0.0280 | -2.13 |
| pCO ₂ | 0.0962 | 0.0851 | 1.44 | 43.55 | 0.615 | -99.63 | 0.0221 | -2.71 |
| | 0.0851 | 0.0741 | 1.74 | 60.40 | 0.610 | -99.84 | 0.0177 | -3.39 |
| | 0.0741 | 0.0641 | 2.14 | 74.63 | 0.603 | -101.22 | 0.0142 | -4.22 |
| | 0.0641 | 0.0550 | 2.65 | 86.41 | 0.594 | -103.95 | 0.0115 | -5.24 |

Saturation Ratios (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO₃}/K_{sp}. pCO₂ (atm) is the partial pressure of CO₂ in the gas phase. Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.



Imperative Water Analysis Report



SYSTEM IDENTIFICATION

Company: Murchison Oil and Gas
Location: Ogden 8
Sample Source: Wellhead
Account Rep: Danny Gonzales

Sample ID#: W-31742
Sample Date: 10-04-2020
Report Date: 10-12-2020

WATER CHEMISTRY

CATIONS

| | |
|------------------|--------|
| Calcium(as Ca) | 4463 |
| Magnesium(as Mg) | 1590 |
| Barium(as Ba) | 0.122 |
| Strontium(as Sr) | 130.60 |
| Sodium(as Na) | 47528 |
| Potassium(as K) | 501.90 |
| Lithium(as Li) | 12.50 |
| Iron(as Fe) | 2.55 |
| Manganese(as Mn) | 0.820 |

ANIONS

| | |
|---|-------|
| Chloride(as Cl) | 84800 |
| Sulfate(as SO ₄) | 1075 |
| Dissolved CO ₂ (as CO ₂) | 0.00 |
| Bicarbonate(as HCO ₃) | 1427 |
| H ₂ S (as H ₂ S) | 85.50 |
| Boron(as B) | 13.61 |

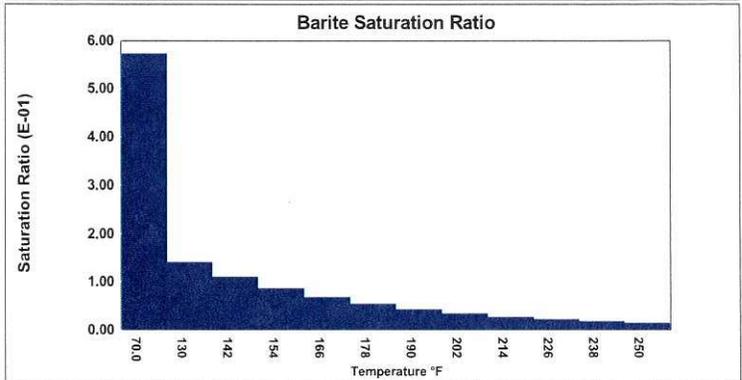
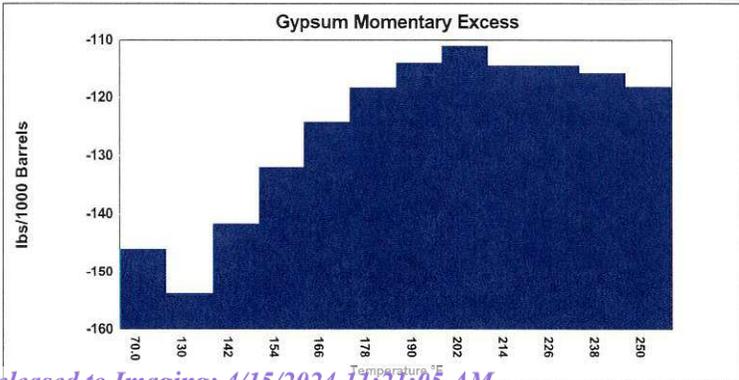
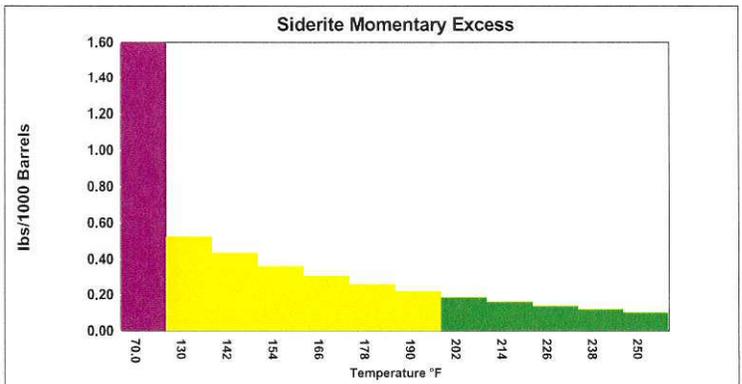
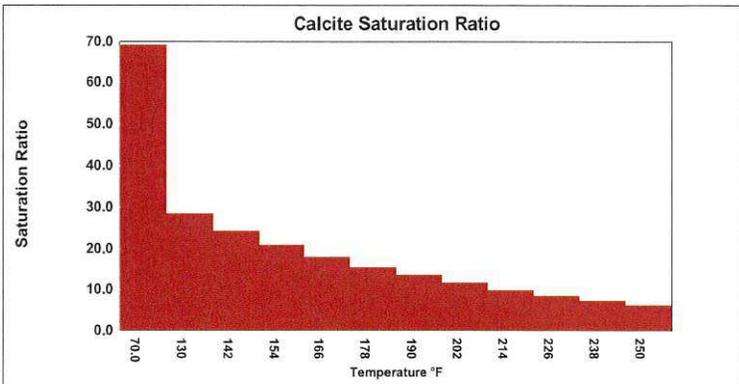
PARAMETERS

| | | | |
|-----------------|--------|--------------|--------|
| Temperature(°F) | 70.10 | Sample pH | 7.39 |
| Conductivity | 141517 | Sp.Gr.(g/mL) | 1.095 |
| Resistivity | 7.07 | T.D.S. | 150946 |

SCALE AND CORROSION POTENTIAL

| Temp. (°F) | Press. (atm) | Calcite CaCO ₃ | | Anhydrite CaSO ₄ | | Gypsum CaSO ₄ *2H ₂ O | | Barite BaSO ₄ | | Celestite SrSO ₄ | | Siderite FeCO ₃ | | Mackinawite FeS | | CO ₂ (mpy) | pCO ₂ (atm) |
|------------|--------------|---------------------------|--------|-----------------------------|---------|---|---------|---------------------------|---------|-----------------------------|---------|----------------------------|-------|---------------------------|---------|-----------------------|------------------------|
| 70.00 | 1.000 | 69.13 | 1.65 | 0.419 | -255.24 | 0.593 | -146.17 | 0.572 | -0.0592 | 0.397 | -91.76 | 28.82 | 1.60 | 131.95 | 0.240 | 0.0402 | 0.0430 |
| 130.00 | 10.000 | 28.29 | 0.473 | 0.484 | -160.73 | 0.527 | -153.83 | 0.141 | -0.481 | 0.342 | -102.64 | 17.51 | 0.523 | 17.79 | 0.209 | 0.185 | 0.430 |
| 142.00 | 19.000 | 24.13 | 0.388 | 0.528 | -130.26 | 0.538 | -141.78 | 0.109 | -0.645 | 0.327 | -106.26 | 16.13 | 0.431 | 12.56 | 0.199 | 0.188 | 0.817 |
| 154.00 | 28.000 | 20.70 | 0.321 | 0.587 | -99.08 | 0.546 | -132.08 | 0.0848 | -0.851 | 0.313 | -110.19 | 14.90 | 0.359 | 9.01 | 0.188 | 0.210 | 1.20 |
| 166.00 | 37.000 | 17.81 | 0.268 | 0.665 | -68.72 | 0.553 | -124.35 | 0.0664 | -1.11 | 0.299 | -114.43 | 13.78 | 0.301 | 6.54 | 0.175 | 0.243 | 1.59 |
| 178.00 | 46.000 | 15.35 | 0.225 | 0.767 | -40.36 | 0.557 | -118.39 | 0.0522 | -1.43 | 0.285 | -119.02 | 12.73 | 0.254 | 4.81 | 0.159 | 0.260 | 1.98 |
| 190.00 | 55.000 | 13.24 | 0.191 | 0.898 | -14.72 | 0.559 | -114.01 | 0.0413 | -1.82 | 0.271 | -124.01 | 11.76 | 0.216 | 3.56 | 0.141 | 0.148 | 2.36 |
| 202.00 | 64.000 | 11.41 | 0.162 | 1.07 | 7.85 | 0.559 | -111.08 | 0.0329 | -2.30 | 0.257 | -129.44 | 10.85 | 0.184 | 2.66 | 0.119 | 0.135 | 2.75 |
| 214.00 | 73.000 | 9.63 | 0.139 | 1.27 | 26.80 | 0.551 | -114.41 | 0.0259 | -2.93 | 0.240 | -138.15 | 9.80 | 0.159 | 1.92 | 0.0874 | 0.128 | 3.14 |
| 226.00 | 82.000 | 8.25 | 0.118 | 1.54 | 43.88 | 0.547 | -114.40 | 0.0208 | -3.67 | 0.227 | -144.91 | 8.97 | 0.137 | 1.45 | 0.0546 | 0.264 | 3.53 |
| 238.00 | 91.000 | 7.05 | 0.100 | 1.89 | 58.21 | 0.541 | -115.68 | 0.0167 | -4.57 | 0.214 | -152.32 | 8.19 | 0.118 | 1.10 | 0.0149 | 0.422 | 3.91 |
| 250.00 | 100.000 | 6.01 | 0.0850 | 2.34 | 70.15 | 0.532 | -118.24 | 0.0134 | -5.65 | 0.201 | -160.43 | 7.46 | 0.101 | 0.833 | -0.0329 | 0.525 | 4.30 |
| | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | | |

Saturation Ratios (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO₃}/K_{sp}. pCO₂ (atm) is the partial pressure of CO₂ in the gas phase. Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.



Imperative Water Analysis Report



SYSTEM IDENTIFICATION

Company: Murchison Oil and Gas
Location: Ogden 005 A
Sample Source: Wellhead
Account Rep: Danny Gonzales

Sample ID#: W-31743

Sample Date: 10-04-2020
Report Date: 10-12-2020

WATER CHEMISTRY

CATIONS

| | |
|------------------|--------|
| Calcium(as Ca) | 4222 |
| Magnesium(as Mg) | 1469 |
| Barium(as Ba) | 0.0830 |
| Strontium(as Sr) | 95.74 |
| Sodium(as Na) | 48892 |
| Potassium(as K) | 489.90 |
| Lithium(as Li) | 12.81 |
| Iron(as Fe) | 6.24 |
| Manganese(as Mn) | 0.795 |

ANIONS

| | |
|---|-------|
| Chloride(as Cl) | 85800 |
| Sulfate(as SO ₄) | 1186 |
| Dissolved CO ₂ (as CO ₂) | 0.00 |
| Bicarbonate(as HCO ₃) | 1781 |
| H ₂ S (as H ₂ S) | 85.50 |
| Boron(as B) | 12.09 |

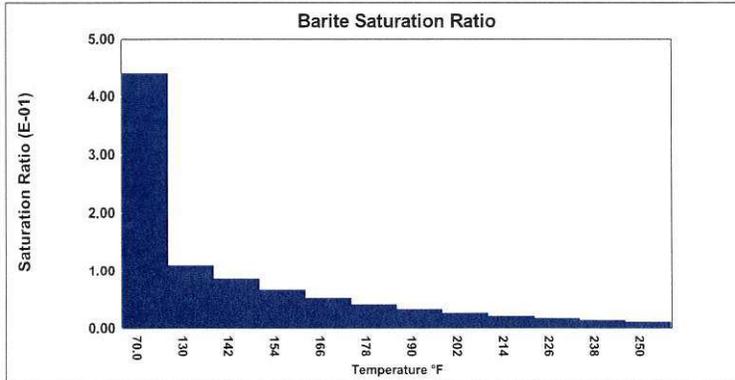
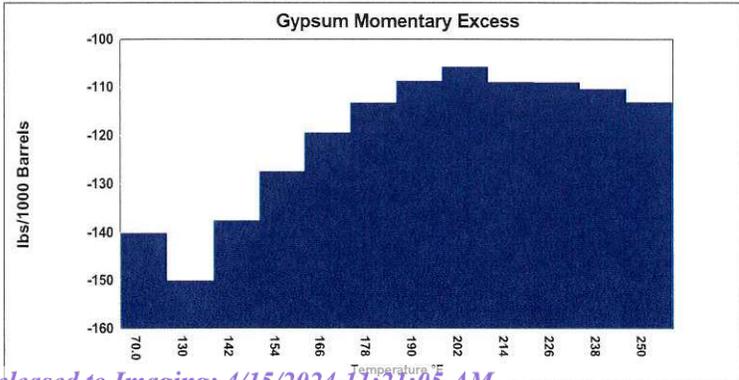
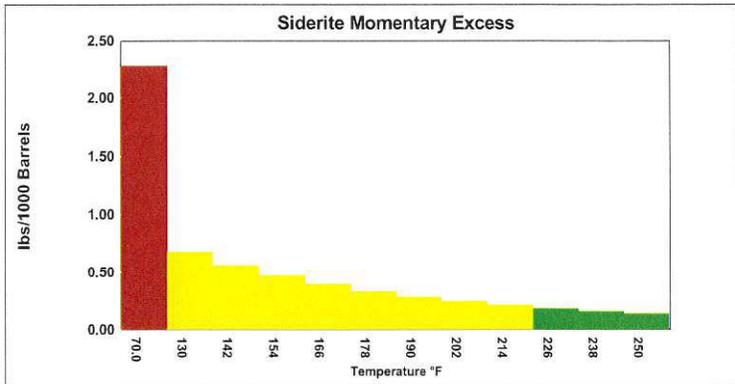
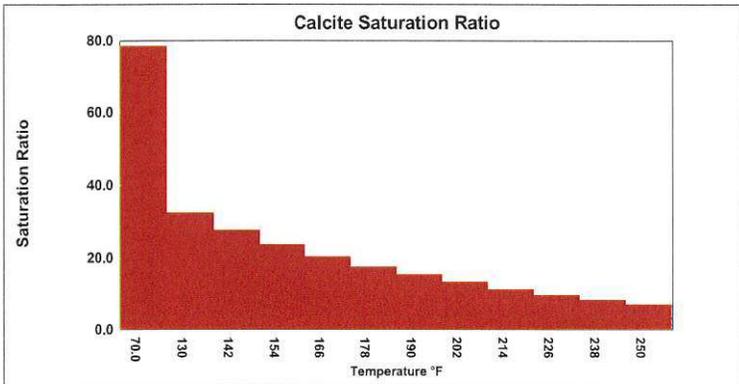
PARAMETERS

| | | | |
|-----------------|--------|--------------|--------|
| Temperature(°F) | 73.30 | Sample pH | 7.37 |
| Conductivity | 150925 | Sp.Gr.(g/mL) | 1.095 |
| Resistivity | 6.63 | T.D.S. | 153465 |

SCALE AND CORROSION POTENTIAL

| Temp. (°F) | Press. (atm) | Calcite CaCO ₃ | | Anhydrite CaSO ₄ | | Gypsum CaSO ₄ *2H ₂ O | | Barite BaSO ₄ | | Celestite SrSO ₄ | | Siderite FeCO ₃ | | Mackinawite FeS | | CO ₂ (mpy) | pCO ₂ (atm) |
|------------|--------------|---------------------------|-------|-----------------------------|---------|---|---------|---------------------------|---------|-----------------------------|---------|----------------------------|-------|---------------------------|-------|-----------------------|------------------------|
| 70.00 | 1.000 | 78.42 | 1.99 | 0.448 | -255.33 | 0.631 | -140.28 | 0.441 | -0.0682 | 0.330 | -98.81 | 84.90 | 2.28 | 318.13 | 0.589 | 0.0477 | 0.0561 |
| 130.00 | 10.000 | 32.33 | 0.576 | 0.520 | -157.65 | 0.564 | -150.18 | 0.109 | -0.437 | 0.286 | -109.07 | 52.01 | 0.672 | 41.43 | 0.527 | 0.219 | 0.561 |
| 142.00 | 19.000 | 27.56 | 0.472 | 0.568 | -125.74 | 0.577 | -137.64 | 0.0848 | -0.580 | 0.274 | -112.58 | 47.87 | 0.554 | 29.24 | 0.510 | 0.223 | 1.07 |
| 154.00 | 28.000 | 23.62 | 0.391 | 0.633 | -93.01 | 0.587 | -127.56 | 0.0660 | -0.760 | 0.263 | -116.41 | 44.17 | 0.461 | 20.96 | 0.492 | 0.249 | 1.57 |
| 166.00 | 37.000 | 20.31 | 0.327 | 0.719 | -61.08 | 0.595 | -119.54 | 0.0517 | -0.984 | 0.251 | -120.56 | 40.81 | 0.387 | 15.22 | 0.471 | 0.295 | 2.08 |
| 178.00 | 46.000 | 17.50 | 0.275 | 0.830 | -31.23 | 0.600 | -113.36 | 0.0407 | -1.26 | 0.239 | -125.08 | 37.68 | 0.327 | 11.17 | 0.448 | 0.315 | 2.58 |
| 190.00 | 55.000 | 15.07 | 0.232 | 0.973 | -4.21 | 0.603 | -108.84 | 0.0323 | -1.60 | 0.228 | -130.00 | 34.75 | 0.279 | 8.27 | 0.421 | 0.179 | 3.09 |
| 202.00 | 64.000 | 12.98 | 0.197 | 1.16 | 19.59 | 0.604 | -105.82 | 0.0257 | -2.03 | 0.216 | -135.37 | 32.00 | 0.239 | 6.18 | 0.390 | 0.162 | 3.59 |
| 214.00 | 73.000 | 10.94 | 0.169 | 1.38 | 39.79 | 0.596 | -109.17 | 0.0202 | -2.58 | 0.202 | -143.95 | 28.85 | 0.207 | 4.46 | 0.345 | 0.208 | 4.10 |
| 226.00 | 82.000 | 9.36 | 0.144 | 1.67 | 57.74 | 0.591 | -109.27 | 0.0162 | -3.22 | 0.191 | -150.70 | 26.37 | 0.179 | 3.36 | 0.302 | 0.260 | 4.60 |
| 238.00 | 91.000 | 8.00 | 0.122 | 2.06 | 72.92 | 0.585 | -110.57 | 0.0130 | -4.01 | 0.180 | -158.01 | 24.05 | 0.155 | 2.54 | 0.251 | 0.322 | 5.11 |
| 250.00 | 100.000 | 6.81 | 0.104 | 2.55 | 85.49 | 0.576 | -113.29 | 0.0105 | -4.97 | 0.169 | -166.08 | 21.86 | 0.135 | 1.93 | 0.192 | 0.280 | 5.61 |
| | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | Lbs per xSAT 1000 Barrels | | | |

Saturation Ratios (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO₃}/K_{sp}. pCO₂ (atm) is the partial pressure of CO₂ in the gas phase. Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.





Site Assessment and Remediation Work Plan

**Murchison Oil & Gas, LLC
Ogden State 5a
Eddy County, New Mexico
Unit Letter "O", Section 2, Township 25 South, Range 26 East
Latitude 32.154250 North, Longitude 104.263969 West
NMOCD Incident # NAB1902343484**

Prepared For:

Murchison Oil & Gas
5325 Sierra Vista
Carlsbad, NM 88230

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260
Office: (575) 393-3386

April 2024

Handwritten signature of Bradley Wells in black ink.

Bradley Wells
Project Manager
bwells@hungry-horse.com

Handwritten signature of Daniel Dominguez in black ink.

Daniel Dominguez
Environmental Manager
ddominguez@hungry-horse.com

Table Of Contents

| | |
|--|---|
| Background | 1 |
| NMOCD Site Classification | 1 |
| Proposed Remediation Activities | 2 |
| Cultural Properties and Special Status Plant Species | 2 |
| Sampling Plan | 3 |
| Restoration, Reclamation, and Re-Vegetation | 3 |
| Limitations | 3 |
| Distribution | 4 |

Figures

- Figure 1 – Topographic Map
- Figure 2 – OSE POD Locations Map
- Figure 3 – USGS Well Locations Map
- Figure 4 – Proposed Delineation Sample Map

Table

RT Hick Consultants, Ltd. – Table 2 Murchison Ogden 5a Summary of All Analytical

Attachments

- Attachment I – Karst, Wetland, and Soil Maps
- Attachment II – Depth to Groundwater
- Attachment III – RT Hick Consultants, Ltd.
 - Figure 1 Release Footprint and 2018-19 Sample Locations
 - Figure 2E All Rule 29 Compliance Samples – East Half
 - Figure 2W All Rule 29 Compliance Samples – West Half
- Attachment IV – RT Hick Consultants, Ltd.
 - Site Characterization/Assessment Report, Ogden State 5a Release
 - Volume 2, Sampling History and Methods, Laboratory Reports
- Attachment V – Boone Archaeological Consultants, LLC Archaeological Survey
 - CEHMM SSPS Survey
- Attachment VI – NMSLO Loamy Sites Seed Mixture



HUNGRY HORSE, LLC

The following *Site Assessment and Remediation Work Plan* serves as proposed remediation activities at the afore referenced Site.

Background:

The site is located in Unit Letter O (SW/SE), Section 2, Township 25 South, Range 26 East, approximately 7 miles Southeast of Whites City, in Eddy County, New Mexico. The property is located on New Mexico State Trust Land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on an active produced water line; Latitude 32.154250 North, Longitude 104.263969 West. The NMOCD Form C-141 indicated that on May 26, 2017 an unknown amount of produced water was released due to a leak in the produced water line. A crew was dispatched to the release site and the line was repaired. No fluid was recovered. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Permitting Portal.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in a Gypsum Karst designated area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 2 and 3.

No water wells were located within a half mile of the release area. On August 23, 2023, a depth to groundwater test bore was drilled on location to a depth of 105 feet bgs. No water was present in the bore so the bore was backfilled with drill cuttings. However, as the site is located in a Gypsum Karst designated area, the site will be remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

| Depth to Groundwater | Constituent | Method | Limit |
|----------------------|-----------------------|-----------------------------------|-----------|
| >105' | Chloride | EPA 300.0 or SM4500 CLB | 600 mg/kg |
| | TPH (GRO + DRO + MRO) | EPA SW-846 Method 8015M Ext | 100 mg/kg |
| | BTEX | EPA SW-846 Methods 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 Methods 8021B or 8260B | 10 mg/kg |

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of reclamation. Web Soil Survey indicates the area is located in the Reeves-Gypsum land complex comprised of loam and clay loam soils with 0 to 3 percent slopes. NMSLO Loamy sites seed mixture will be utilized for seeding the area after reclamation activities are complete. Karst, Wetland, and Soil Maps are provided as Attachment I.



Proposed Remediation Activities:

In accordance with NMOCD Regulations, NMSLO Reclamation and Remediation Guidelines and Procedures, and based upon laboratory analytical results, and site observations made by RT Hicks Consultants, Ltd., the following remediation activities are proposed in an effort to advance the site toward approved closure.

- Horizontal and vertical delineation of the release area will be completed prior to excavation activities, utilizing mechanical equipment. Proposed Delineation Sample Map is provided as Figure 4.
- Based upon laboratory analytical results received from RT Hicks Consultants, Ltd. sampling activities and Hungry Horse delineation sampling, the release area will be excavated to an approximate depth of five feet bgs. The proposed excavation area of approximately 29,600 sq. ft. is depicted on Figure 4.
- Excavated contaminated soil, approximately 5,500 cy, will be temporarily stockpiled onsite, atop plastic, before transport to an NMOCD approved disposal facility. Retention berms, installed by RT Hicks Consultants, Ltd. for the purpose of flooding the release area, will also be removed and hauled to disposal.
- Upon completion of excavation activities, five-point composite confirmation samples will be collected from the excavation floor and sidewalls; each sample representing no more than 200 square feet. Confirmation soil samples will be submitted to the laboratory for analysis of BTEX, TPH, and chloride.
- Upon receipt of laboratory analytical results from confirmation soil samples, demonstrating constituent contaminant levels are in excess of the strictest NMOCD Closure Criteria in the excavation floor and sidewalls, the area will be further excavated, vertically and/or horizontally, until laboratory analytical data indicates constituent contaminant levels are equal to or below the strictest NMOCD Closure Criteria in the excavation floor and sidewalls.
- Upon receipt of laboratory analytical results from confirmation soil samples, demonstrating constituent contaminant levels are equal to or below the strictest NMOCD Closure Criteria in the excavation floor and sidewalls, the excavation will be backfilled with locally sourced, clean, non-impacted, topsoil.
- Remediation activities are expected to be completed within 30 days of receiving NMOCD and NMSLO approval of the Site Assessment and Remediation Work Plan.
- Within 30 days, following the completion of these remediation activities, the affected areas will be seeded, via hand broadcast at double the recommended rate, with NMSLO approved Loamy sites seed mixture.

Cultural Properties and Special Status Plant Species:

Archaeological Survey, NMCRIS Activity Number 154352, was completed on November 20, 2023. No cultural resources eligible for listing to the National Register of Historic Places were found within the survey area. If cultural materials are encountered during the remediation process, work will be halted, and NMSLO archaeologists notified.



CEHMM conducted a Special Status Plant Species (SSPS) survey on November 27, 2023 and found no protected species within the spill footprint and 100-meter buffer. The reports, indicating negative findings are provided as Attachment V.

Sampling Plan:

Upon completion of excavation activities, confirmation five-point composite soil samples will be collected from the excavation floor and sidewalls; each sample representing no more than 200 square feet. Confirmation soil samples will be submitted to the laboratory for analysis of BTEX, TPH, and chloride.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, the excavation will be backfilled with approximately 5,500 cy of locally sourced, clean, non-impacted topsoil. The area will be contoured to achieve erosion control and preserve surface water flow.

The affected area will be seeded, via hand broadcast at double the recommended rate, with NMSLO approved Loamy sites seed mixture, free of noxious weeds, within 30 days following the completion of these remediation activities. Site will also be monitored for growth and noxious weed management on a semi-annual basis until desired vegetation is achieved. NMSLO approved Loamy sites seed mix is provided as Attachment VI.

Limitations:

Hungry Horse, LLC, has prepared this *Site Assessment and Remediation Work Plan* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



Distribution:

Murchison Oil & Gas

5325 Sierra Vista
Carlsbad, NM 88230

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2
811 S. First St.
Artesia, NM 88210

New Mexico State Land Office

602 N. Canal. Suite B
Carlsbad, NM 88220

Figures



Figure 1

Topographic Map
 Murchison Oil & Gas
 Ogden State 5a
 GPS: 32.15425, -104.263969
 Eddy County

Legend:

● Ogden State 5a Location

Drafted: dd
 Checked: bw
 Date: 3/19/24





1=18,056

Figure 2

OSE POD Locations Map
Murchison Oil & Gas
Ogden State 5a
GPS: 32.15425, -104.263969
Eddy County

Legend:

● Ogden State 5a Location



Drafted: dd
Checked: bw
Date: 3/19/24

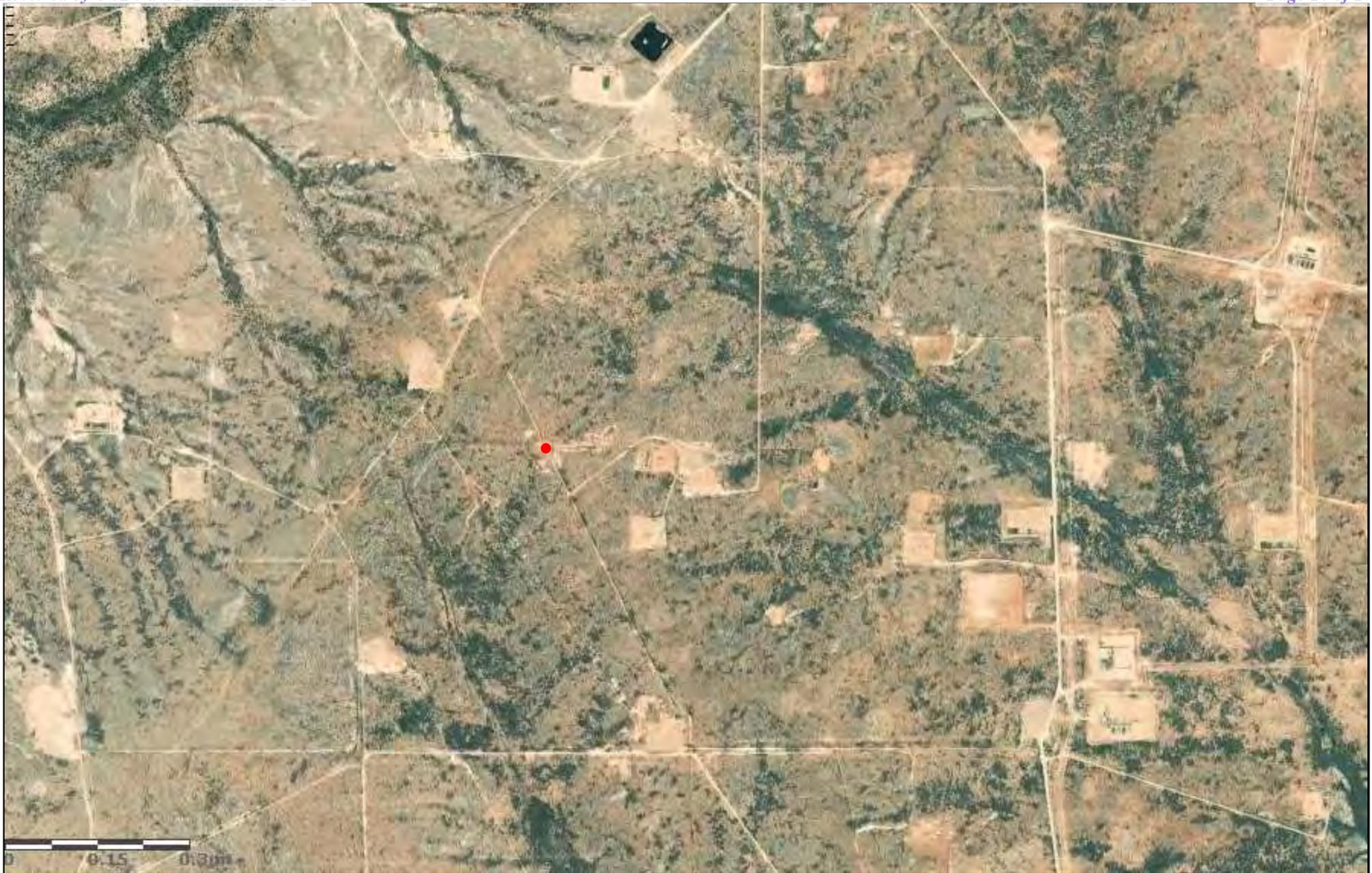


Figure 3

USGS Well Locations Map
Murchison Oil & Gas
Ogden State 5a
GPS: 32.15425, -104.263969
Eddy County

Legend:

● Ogden State 5a Location

Drafted: dd
Checked: bw
Date: 3/19/24





Figure 4

Proposed Delineation Sample Map
 Murchison Oil & Gas
 Ogden State 5a
 GPS: 32.15425, -104.263969
 Eddy County

Legend:

- Proposed Excavation Area - Approximately 29,600 square feet
- SP1 Proposed Vertical Delineation Sample Location
- HZ1 Proposed Horizontal Delineation Sample Location

Drafted: dd
 Checked: bw
 Date: 4/1/24



Table

Table 2

**Murchison Ogden State 5a
Summary of All Analytical**

| Sample Name | Date | Top Depth | Base Depth | Discrete Depth | In-Use | Cl 20,000 Standard | GRO+DRO 1000 Standard | TPHext 2500 Standard | BTEX 50 Standard | Benzene 10 Standard |
|--------------------------------|------------|-----------|------------|----------------|--------|--------------------------|--------------------------|-------------------------|---------------------|------------------------|
| T Tee (release origin) | 04/26/2018 | 0.0 | 0.5 | | Yes | 4,800 | 0 | 0 | 0 | 0 |
| T Tee (release origin) | 04/26/2018 | 0.5 | 1.0 | | Yes | 830 | 0 | 0 | | |
| T Tee (release origin) | 04/26/2018 | 1.0 | 2.0 | | Yes | 1,100 | 0 | 0 | 0 | 0 |
| T Tee (release origin) | 04/26/2018 | 2.0 | 3.0 | | Yes | 1,100 | 0 | 0 | | |
| T Tee (release origin) | 04/26/2018 | 3.0 | 4.0 | | Yes | 1,500 | 0 | 0 | 0 | 0 |
| T Tee (release origin) | 04/26/2018 | 4.0 | 5.0 | | Yes | 1,600 | 0 | 0 | 0 | 0 |
| 77 77 ft East (of origin) | 04/26/2018 | 0.0 | 0.5 | | Yes | 16,000 | 0 | 0 | 0 | 0 |
| 77 77 ft East (of origin) | 04/26/2018 | 0.5 | 1.0 | | Yes | 11,000 | 0 | 0 | | |
| 77 77 ft East (of origin) | 04/26/2018 | 1.0 | 2.0 | | Yes | 8,200 | 0 | 0 | 0 | 0 |
| 77 77 ft East (of origin) | 04/26/2018 | 2.0 | 3.0 | | Yes | 8,300 | 0 | 0 | | |
| 77 77 ft East (of origin) | 04/26/2018 | 3.0 | 4.0 | | Yes | 4,400 | 0 | 0 | 0 | 0 |
| 77 77 ft East (of origin) | 04/26/2018 | 4.0 | 5.0 | | Yes | 3,400 | 0 | 0 | 0 | 0 |
| 77 77 ft East (of origin) | 01/16/2019 | 0.0 | 2.0 | | Yes | 6,000 | | | | |
| 77 77 ft East (of origin) | 01/16/2019 | 2.0 | 4.0 | | Yes | 1,420 | | | | |
| 77 77 ft East (of origin) | 01/16/2019 | 0.0 | 4.0 | | Yes | 2,880 | 0 | 0 | 0 | 0 |
| 77 77 ft East (of origin) | 01/16/2019 | | | 5.0 | Yes | 1,760 | 0 | 0 | 0 | 0 |
| 35 35 ft Northeast (of origin) | 04/26/2018 | 0.0 | 0.5 | | No | 8,600 | 0 | 0 | 0 | 0 |
| 35 35 ft Northeast (of origin) | 01/16/2019 | 0.0 | 2.0 | | No | 4,320 | | | | |
| 35 35 ft Northeast (of origin) | 01/16/2019 | 2.0 | 4.0 | | No | 3,920 | | | | |
| 35 35 ft Northeast (of origin) | 01/16/2019 | 0.0 | 4.0 | | No | 5,600 | 0 | 0 | 0 | 0 |
| 35 35 ft Northeast (of origin) | 01/16/2019 | | | 5.0 | No | 5,040 | 0 | 0 | 0 | 0 |
| 230 230 ft East (of origin) | 04/26/2018 | 0.0 | 0.5 | | Yes | 47,000 | 0 | 0 | 0 | 0 |
| 230 230 ft East (of origin) | 01/16/2019 | 0.0 | 2.0 | | Yes | 8,660 | | | | |
| 230 230 ft East (of origin) | 01/16/2019 | 2.0 | 4.0 | | Yes | 960 | | | | |
| 230 230 ft East (of origin) | 01/16/2019 | 0.0 | 4.0 | | Yes | 6,320 | 0 | 0 | 0 | 0 |
| 230 230 ft East (of origin) | 01/16/2019 | | | 5.0 | Yes | 368 | 0 | 0 | 0 | 0 |
| 230 230 ft East (monitor) | 06/13/2023 | 0.0 | 2.0 | | Yes | 160 | | | | |
| 230 230 ft East (monitor) | 06/13/2023 | 2.0 | 4.0 | | Yes | 80 | | | | |
| 230 230 ft East (monitor) | 06/13/2023 | | | 4.5 | Yes | 80 | | | | |

Blank - Not Analyzed For Constituent
0 = Below Detection Limits

Table 2 **Murchison Ogden State 5a**
Summary of All Analytical

| | | | | | | | | | | | |
|------|-------------------------------------|------------|-----|-----|-----|-----|--------|---|---|---|---|
| 390 | 390 ft East (of origin) | 04/26/2018 | 0.0 | 0.5 | | Yes | 760 | 0 | 0 | 0 | 0 |
| 390 | 390 ft East (of origin) | 01/16/2019 | 0.0 | 2.0 | | Yes | 8,000 | | | | |
| 390 | 390 ft East (of origin) | 01/16/2019 | 2.0 | 4.0 | | Yes | 624 | | | | |
| 390 | 390 ft East (of origin) | 01/16/2019 | 0.0 | 4.0 | | Yes | 5,600 | 0 | 0 | 0 | 0 |
| 390 | 390 ft East (of origin) | 01/16/2019 | | | 4.3 | Yes | 3,360 | 0 | 0 | 0 | 0 |
| E1 | EC-01 | 01/16/2019 | 0.0 | 2.0 | | No | 2,600 | | | | |
| E1 | EC-01 | 01/16/2019 | 2.0 | 4.0 | | No | 352 | | | | |
| E1 | EC-01 | 01/16/2019 | 0.0 | 4.0 | | No | 1,140 | 0 | 0 | 0 | 0 |
| E1 | EC-01 | 01/16/2019 | | | 4.3 | No | 64 | 0 | 0 | 0 | 0 |
| E2 | EC-02 | 01/16/2019 | 0.0 | 4.0 | | No | 256 | 0 | 0 | 0 | 0 |
| E2 | EC-02 | 01/16/2019 | | | 4.3 | No | 7,200 | 0 | 0 | 0 | 0 |
| E3 | EC-03 | 01/16/2019 | 0.0 | 4.0 | | No | 32 | 0 | 0 | 0 | 0 |
| E3 | EC-03 | 01/16/2019 | | | 5.0 | No | 48 | 0 | 0 | 0 | 0 |
| E4 | EC-04 | 01/16/2019 | 0.0 | 2.0 | | Yes | 2,720 | | | | |
| E4 | EC-04 | 01/16/2019 | 2.0 | 4.0 | | Yes | 688 | | | | |
| E4 | EC-04 | 01/16/2019 | 0.0 | 4.0 | | Yes | 2,320 | 0 | 0 | 0 | 0 |
| E4 | EC-04 | 01/16/2019 | | | 5.0 | Yes | 192 | 0 | 0 | 0 | 0 |
| 5n | 5 ft N of EC-4 | 05/02/2019 | 0.0 | 2.0 | | No | 384 | | | | |
| 5n | 5 ft N of EC-4 | 05/02/2019 | 2.0 | 4.0 | | No | 32 | | | | |
| 5n | 5 ft N of EC-4 | 05/02/2019 | | | 4.5 | No | 48 | | | | |
| E5 | EC-05 | 01/16/2019 | 0.0 | 2.0 | | No | 3,360 | | | | |
| E5 | EC-05 | 01/16/2019 | 2.0 | 4.0 | | No | 1,010 | | | | |
| E5 | EC-05 | 01/16/2019 | 0.0 | 4.0 | | No | 1,760 | 0 | 0 | 0 | 0 |
| E5 | EC-05 | 01/16/2019 | | | 5.0 | No | 704 | 0 | 0 | 0 | 0 |
| 390n | 390 ft E, 20x17, 10 ft N WALL COMP. | 04/26/2019 | 0.0 | 4.0 | | No | 1,580 | | | | |
| 390s | 390 ft E, 20x17, 7 ft S WALL COMP. | 04/26/2019 | 0.0 | 4.0 | | No | 9,460 | | | | |
| 390e | 390 ft E, 20x17, 10 ft E WALL COMP. | 04/26/2019 | 0.0 | 4.0 | | No | 14,900 | | | | |
| 390w | 390 ft E, 20x17, 10 ft W WALL COMP. | 04/26/2019 | 0.0 | 4.0 | | No | 10,900 | | | | |
| 390f | 390 ft E, 20x17, FLOOR COMP. @4 ft | 04/26/2019 | | | 4.0 | No | 3,400 | | | | |
| E1n | EC-01, 20x20, 10 ft N WALL COMP. | 04/26/2019 | 0.0 | 4.0 | | No | 384 | | | | |
| E1s | EC-01, 20x20, 10 ft S WALL COMP. | 04/26/2019 | 0.0 | 4.0 | | No | 2240 | | | | |
| E1e | EC-01, 20x20, 10 ft E WALL COMP. | 04/26/2019 | 0.0 | 4.0 | | No | 528 | | | | |
| E1w | EC-01, 20x20, 10 ft W WALL COMP. | 04/26/2019 | 0.0 | 4.0 | | No | 3600 | | | | |
| E1f | EC-01, 20x20, FLOOR COMP. @4 ft | 04/26/2019 | | | 4.0 | No | 4160 | | | | |

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0 = Below Detection Limits

Table 2 **Murchison Ogden State 5a**
Summary of All Analytical

| | | | | | | | | | | |
|-----|-------------------------------|------------|-----|-----|-------|----|-------|--|--|--|
| 35n | 35 ft N of 390 ft E | 05/02/2019 | 0.0 | 2.0 | | No | 80 | | | |
| 35n | 35 ft N of 390 ft E | 05/02/2019 | 2.0 | 4.0 | | No | 64 | | | |
| 35n | 35 ft N of 390 ft E | 05/02/2019 | | | 4.5 | No | 48 | | | |
| E6 | EC-06 | 05/02/2019 | 0.0 | 2.0 | | No | 192 | | | |
| E6 | EC-06 | 05/02/2019 | 2.0 | 3.5 | | No | 128 | | | |
| E6 | EC-06 | 05/02/2019 | | | 3.5 | No | 144 | | | |
| E7 | EC-07 | 05/03/2019 | 0.0 | 2.0 | | No | 80 | | | |
| E7 | EC-07 | 05/03/2019 | 2.0 | 4.0 | | No | 112 | | | |
| E7 | EC-07 | 05/03/2019 | | | 4.5 | No | 80 | | | |
| E8 | EC-08 | 05/03/2019 | 0.0 | 2.0 | | No | 2,360 | | | |
| E8 | EC-08 | 05/03/2019 | 2.0 | 4.0 | | No | 923 | | | |
| E8 | EC-08 | 05/03/2019 | | | 4.5 | No | 704 | | | |
| 5s | 5 ft S of EC-08 | 05/03/2019 | 0.0 | 2.0 | | No | 16 | | | |
| 5s | 5 ft S of EC-08 | 05/03/2019 | 2.0 | 3.5 | | No | 16 | | | |
| 5s | 5 ft S of EC-08 | 05/03/2019 | | | 3.5 | No | 112 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 3.0 | | 2,600 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 6.0 | | 1,460 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 10.0 | | 544 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 16.0 | | 336 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 20.0 | | 432 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 30.0 | | 192 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 42.5 | | 288 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 52.0 | | 208 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 73.0 | | 352 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 90.0 | | 384 | | | |
| SB | Soil Boring (20 ft NW of tee) | 08/23/2023 | | | 105.0 | | 576 | | | |
| BG | Background | 01/30/2019 | 0.0 | 2.0 | | | 110 | | | |
| BG | Background | 01/30/2019 | 2.0 | 4.0 | | | 61 | | | |
| BG | Background | 01/30/2019 | | | 5.0 | | 120 | | | |
| 1 | SP-1 | 03/24/2021 | 0.0 | 2.0 | | | 3,880 | | | |
| 1 | SP-1 | 03/24/2021 | 2.0 | 4.0 | | | 2,000 | | | |
| 1 | SP-1 | 03/24/2021 | | | 4.5 | | 2,600 | | | |
| 1 | SP-1 | 06/13/2023 | 0.0 | 2.0 | | | 288 | | | |
| 1 | SP-1 | 06/13/2023 | 2.0 | 4.0 | | | 864 | | | |
| 1 | SP-1 | 06/13/2023 | | | 4.5 | | 1,060 | | | |

Blank - Not Analyzed For Constituent
0 = Below Detection Limits

Table 2

**Murchison Ogden State 5a
Summary of All Analytical**

| | | | | | | | | | | |
|----|-------|------------|-----|-----|-----|--|--------|--|--|--|
| 2 | SP-2 | 03/24/2021 | 0.0 | 2.0 | | | 3,800 | | | |
| 2 | SP-2 | 03/24/2021 | 2.0 | 4.0 | | | 4,880 | | | |
| 2 | SP-2 | 03/24/2021 | | | 4.5 | | 5,200 | | | |
| 2 | SP-2 | 06/13/2023 | 0.0 | 2.0 | | | 1,720 | | | |
| 2 | SP-2 | 06/13/2023 | 2.0 | 4.0 | | | 288 | | | |
| 2 | SP-2 | 06/13/2023 | | | 4.5 | | 368 | | | |
| 2b | SP-2B | 06/13/2023 | 0.0 | 2.0 | | | 4,560 | | | |
| 2b | SP-2B | 06/13/2023 | 2.0 | 4.0 | | | 2,480 | | | |
| 2b | SP-2B | 06/13/2023 | | | 4.5 | | 2,040 | | | |
| 3 | SP-3 | 03/24/2021 | 0.0 | 2.0 | | | 160 | | | |
| 3 | SP-3 | 03/24/2021 | 2.0 | 4.0 | | | 96 | | | |
| 3 | SP-3 | 03/24/2021 | | | 4.5 | | 64 | | | |
| 3 | SP-3 | 06/13/2023 | 0.0 | 2.0 | | | 2,800 | | | |
| 3 | SP-3 | 06/13/2023 | 2.0 | 4.0 | | | 2,960 | | | |
| 3 | SP-3 | 06/13/2023 | | | 4.5 | | 1,600 | | | |
| 4 | SP-4 | 03/24/2021 | 0.0 | 2.0 | | | 8,200 | | | |
| 4 | SP-4 | 03/24/2021 | 2.0 | 4.0 | | | 5,730 | | | |
| 4 | SP-4 | 03/24/2021 | | | 4.5 | | 1,760 | | | |
| 4 | SP-4 | 06/13/2023 | 0.0 | 2.0 | | | 8,640 | | | |
| 4 | SP-4 | 06/13/2023 | 2.0 | 4.0 | | | 11,300 | | | |
| 4 | SP-4 | 06/13/2023 | | | 4.5 | | 3,920 | | | |
| 5 | SP-5 | 03/24/2021 | 0.0 | 2.0 | | | 288 | | | |
| 5 | SP-5 | 03/24/2021 | 2.0 | 4.0 | | | 240 | | | |
| 5 | SP-5 | 03/24/2021 | | | 4.5 | | 160 | | | |
| 6 | SP-6 | 03/24/2021 | 0.0 | 2.0 | | | 5,360 | | | |
| 6 | SP-6 | 03/24/2021 | 2.0 | 4.0 | | | 3,760 | | | |
| 6 | SP-6 | 03/24/2021 | | | 4.5 | | 1,440 | | | |
| 6 | SP-6 | 06/13/2023 | 0.0 | 2.0 | | | 4,400 | | | |
| 6 | SP-6 | 06/13/2023 | 2.0 | 4.0 | | | 1,060 | | | |
| 6 | SP-6 | 06/13/2023 | | | 4.5 | | 336 | | | |
| 6b | SP-6B | 06/13/2023 | 0.0 | 2.0 | | | 6,880 | | | |
| 6b | SP-6B | 06/13/2023 | 2.0 | 4.0 | | | 4,400 | | | |
| 6b | SP-6B | 06/13/2023 | | | 4.5 | | 5,040 | | | |

Blank - Not Analyzed For Constituent
0 = Below Detection Limits

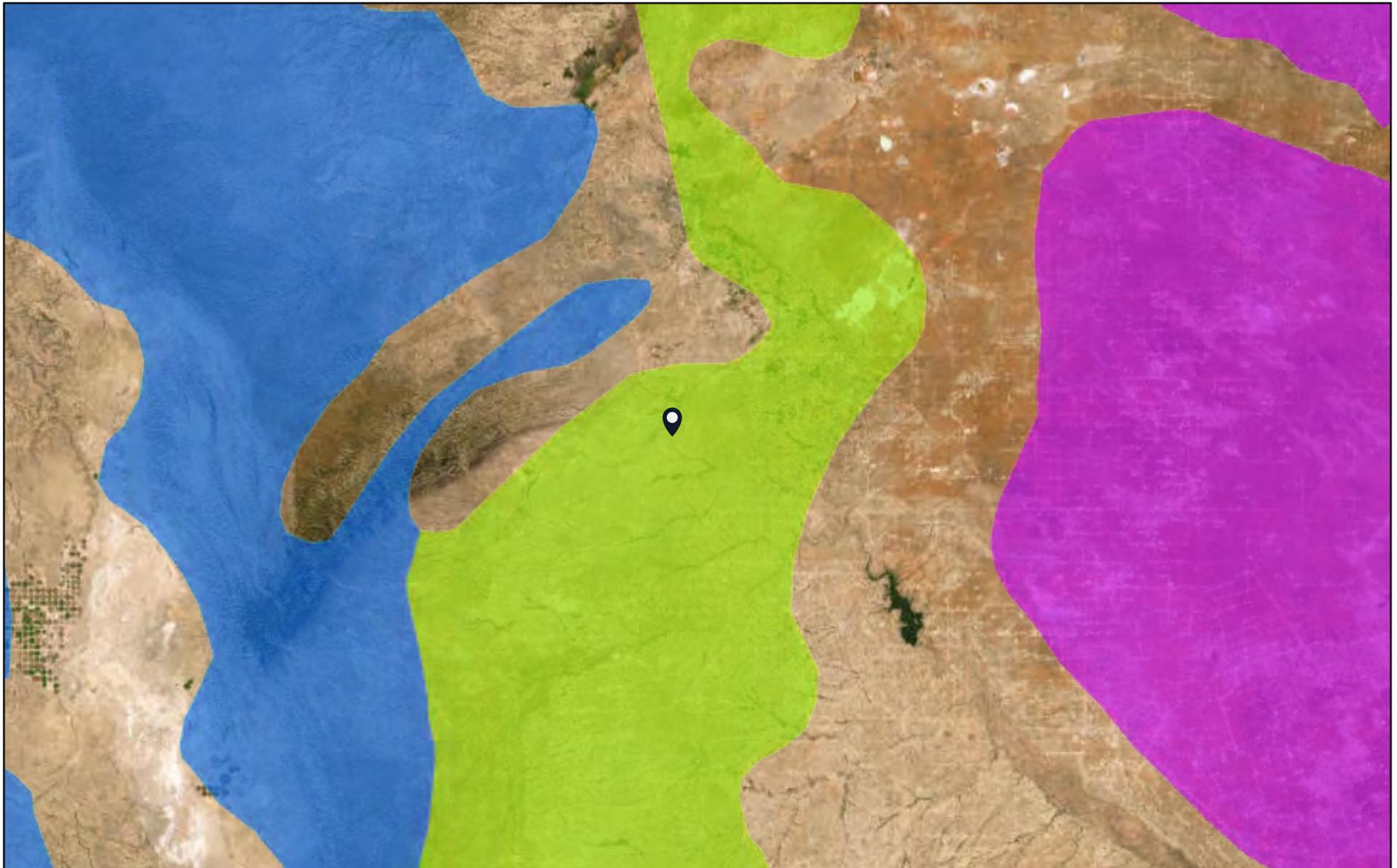
Table 2 **Murchison Ogden State 5a**
Summary of All Analytical

| | | | | | | | | | | |
|----|-------|------------|-----|-----|-----|--|--------|--|--|--|
| 7 | SP-7 | 03/24/2021 | 0.0 | 2.0 | | | 464 | | | |
| 7 | SP-7 | 03/24/2021 | 2.0 | 4.0 | | | 176 | | | |
| 7 | SP-7 | 03/24/2021 | | | 4.5 | | 160 | | | |
| 8 | SP-8 | 03/24/2021 | 0.0 | 2.0 | | | 496 | | | |
| 8 | SP-8 | 03/24/2021 | 2.0 | 4.0 | | | 48 | | | |
| 8 | SP-8 | 03/24/2021 | | | 4.5 | | 80 | | | |
| 9 | SP-9 | 03/24/2021 | 0.0 | 2.0 | | | 10,800 | | | |
| 9 | SP-9 | 03/24/2021 | 2.0 | 4.0 | | | 3,720 | | | |
| 9 | SP-9 | 03/24/2021 | | | 4.5 | | 1,520 | | | |
| 9 | SP-9 | 06/13/2023 | 0.0 | 2.0 | | | 10,800 | | | |
| 9 | SP-9 | 06/13/2023 | 2.0 | 4.0 | | | 7,040 | | | |
| 9 | SP-9 | 06/13/2023 | | | 4.5 | | 2,800 | | | |
| 9b | SP-9B | 06/13/2023 | 0.0 | 2.0 | | | 1,070 | | | |
| 9b | SP-9B | 06/13/2023 | 2.0 | 4.0 | | | 704 | | | |
| 9b | SP-9B | 06/13/2023 | | | 4.5 | | 176 | | | |
| 9c | SP-9C | 06/13/2023 | 0.0 | 2.0 | | | 10,100 | | | |
| 9c | SP-9C | 06/13/2023 | 2.0 | 4.0 | | | 848 | | | |
| 9c | SP-9C | 06/13/2023 | | | 4.5 | | 2,120 | | | |
| 10 | SP-10 | 03/24/2021 | 0.0 | 2.0 | | | 224 | | | |
| 10 | SP-10 | 03/24/2021 | 2.0 | 4.0 | | | 288 | | | |
| 10 | SP-10 | 03/24/2021 | | | 4.5 | | 256 | | | |

Blank - Not Analyzed For Constituent
0 = Below Detection Limits

**Attachment I
Karst, Wetland, and Soil Maps**

Ogden State 5a



3/20/2024

Karst Type

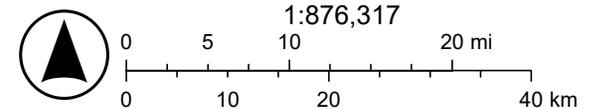
- Carbonate
- Erosional
- Gypsum

- Volcanic
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

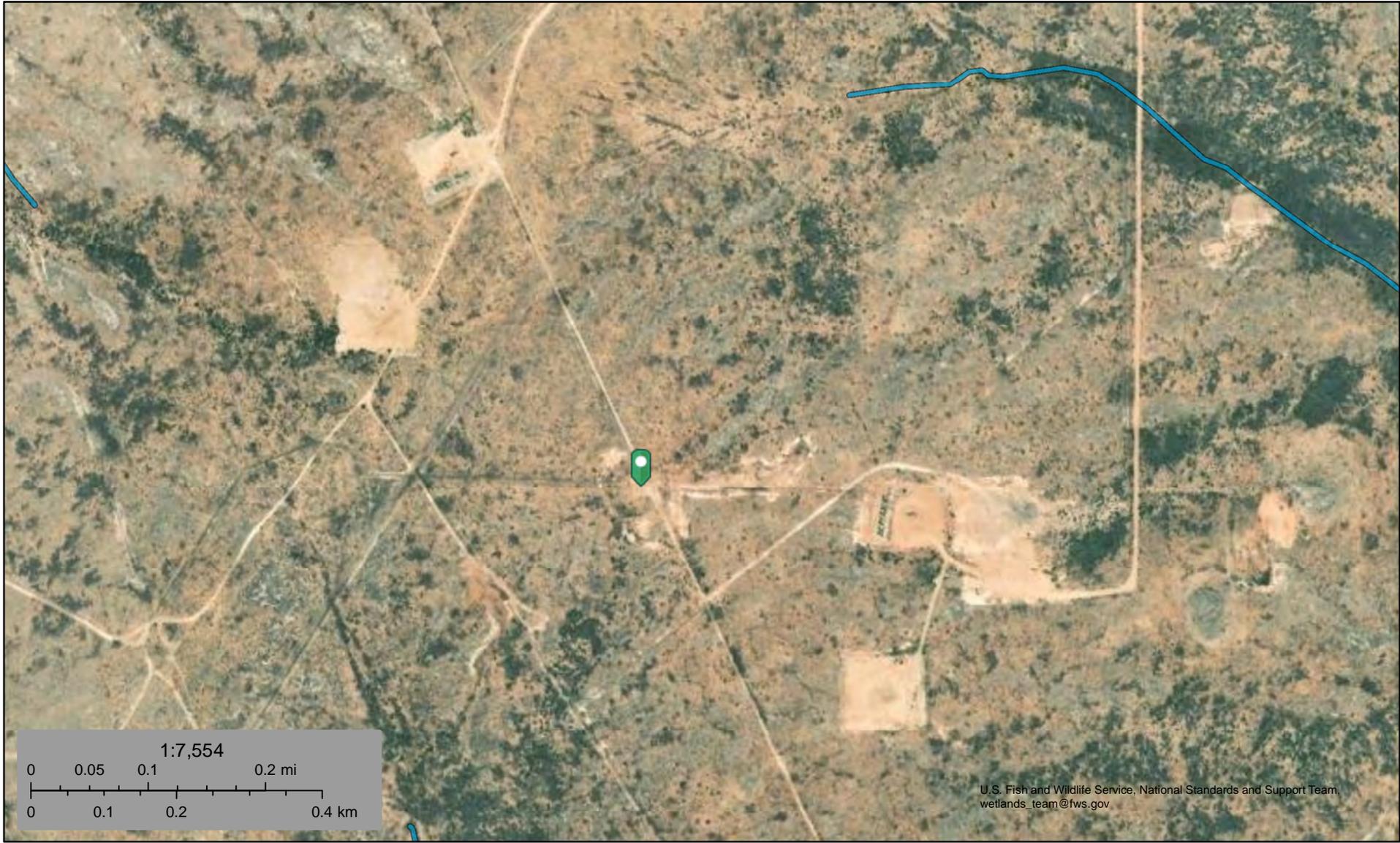
150m Resolution Metadata



U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics



Ogden State 5a



March 20, 2024

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Lake
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland
- Other
- Freshwater Pond
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

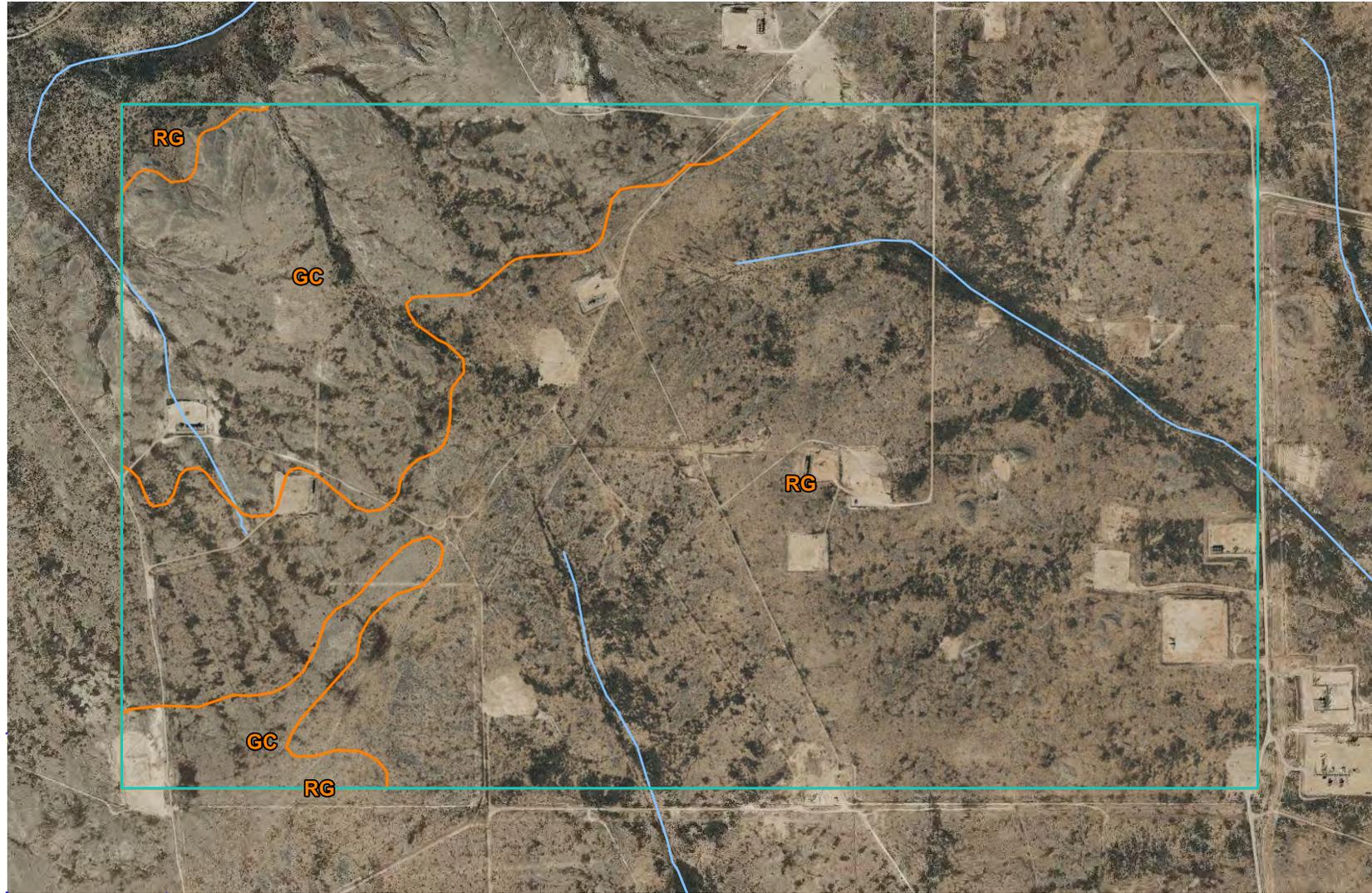
Soil Map—Eddy Area, New Mexico
(Ogden State 5a)

W. 48° 41' 40" E

W. 115° 91' 40" E

32° 9' 49" N

32° 9' 49" N



32° 8' 41" N

32° 8' 41" N

Map Scale: 1:14,800 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84



W. 48° 41' 40" E

W. 115° 91' 40" E



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

3/20/2024
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(Ogden State 5a)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|---|----------------|----------------|
| GC | Gypsum land-Cottonwood complex, 0 to 3 percent slopes | 248.1 | 23.0% |
| RG | Reeves-Gypsum land complex, 0 to 3 percent slopes | 829.6 | 77.0% |
| Totals for Area of Interest | | 1,077.8 | 100.0% |

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Ogden State 5a

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Largo

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent
Ecological site: R070BC033NM - Salty Bottomland
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Attachment II

Depth to Groundwater



New Mexico Office of the State Engineer
Wells with Well Log Information

No wells found.

UTMNA83 Radius Search (in meters):

Easting (X): 569406.25

Northing (Y): 3557770.61

Radius: 805

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 particular purpose of the data.

3/20/24 11:56 AM

WELLS WITH WELL LOG INFORMATION

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

Memorandum

From: Kristin Pope

Date: September 11, 2023

RE: Murchison-Ogden St. 5A release, Characterization Soil Boring

Lat./long.: 32.15434, -104.26397

The subject site is located approximately 12 miles south of Carlsbad city limits, with a surface elevation of approximately 3,390 feet asl. On August 23, 2023, I met the client Greg Boans (Murchison), Dr. David Decker (Southwest Geophysical Consulting), and representatives of Ready Drill LLC on site to install an investigative soil boring nearest the release origin. To maintain a safe distance from active, underground pipelines, the soil boring was located approximately 20 feet northwest of the junction, or "tee" as shown on the adjacent image. The location was within the berms surrounding the release footprint.



2023 Google Earth satellite image

Weather conditions were cloudy with moderate-light but steady rain. Drilling began at 9:20 a.m. MST with instructions to the driller to proceed at a consistent rate and pressure. I continuously monitored the cuttings during each trip while regularly communicating with the driller as to the "feel" of the drilling, with instructions to inform Dr. Decker and me if any moisture was suspected or voids were encountered. I recorded the lithology and moisture content with each trip out of the hole. If any appreciable moisture would have been indicated, the operation would have been suspended to allow the water to accumulate and then measured.

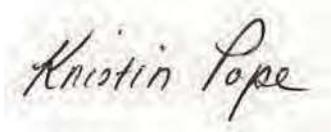
Drilling steadily advanced at a rate of approximately 0.75 feet per minute until 23 feet, when heavy rain precluded inspection of cuttings and drilling ceased until the rain let up at 10:28 a.m. Hard dolomitic and gypsy rock in a matrix of silt and clay caused the need for a bit change at 38 feet. After this depth, drilling slowed to a rate of approximately 0.2 feet per minute. Hard drilling continuing from 52 feet until the remainder of the hole. Dr. Decker also inspected cuttings and communicated with the driller regarding karst considerations until 12:21 p.m. when he departed; we discussed the remainder of the soil boring conditions and lithologies later that day.

At 73 feet, the cuttings became dusty and continued until total depth was reached as planned, at 105 feet. No water or drilling fluids were used during drilling and the hole was backfilled with cuttings. I observed no water or measurable moisture in any of the cuttings I inspected, nor did the driller

Page 2

indicate any conditions associated with subsoil dampness or saturation. The experienced driller stated that he did not observe or feel any instances of the bit dropping which indicate the presence of voids.

Representative samples were submitted for laboratory analysis of chloride. Chloride concentrations, drilling conditions, and lithologies are summarized in the enclosed boring log. Based on my observations, I am certain that no groundwater is present below the surface of this well site to 105 feet (3,285 feet asl).

A handwritten signature in cursive script that reads "Kristin Pope". The signature is written in dark ink on a light-colored, slightly textured background.

| | | | | |
|--------------------------|-----------------|----------------------|---------------------|---|
| Logger: | Kristin Pope | Client: | Murchison Oil & Gas | Well ID: SB-1 (approx. 20 ft NW of pipeline tee) |
| Driller: | Ready Drill LLC | | | |
| Drilling Method: | CZM EK125 auger | Project Name: | | |
| Start Date: | 8/23/2023 | Ogden 5A release | | |
| End Date: | 8/23/2023 | Location: | Eddy County | |
| moderate and steady rain | | 32.15434, -104.26397 | Sec. 2, T25S, R26E | |

| Depth (feet BGS) | Description | Time MST | Remarks | Lithology | Completion | Sample ID (chloride mg/kg) | Depth (feet BGS) | | | | | | | | |
|------------------|---|-------------------------------|--|------------------|-----------------------------------|----------------------------|--------------------------------------|--|------------------|----|----|------------------|----|----|----|
| 0 | Surface | 0920 | Samples collected from auger bit; all samples were dry | | Borehole backfilled with cuttings | Lab Analysis | 0 | | | | | | | | |
| 2 | Green-gray silty clay | | | SB @ 3 ft = 2600 | | 2 | | | | | | | | | |
| 4 | | | | 4 | | | | | | | | | | | |
| 6 | | 0923 | SB @ 6 ft = 1460 | 6 | | | | | | | | | | | |
| 8 | | Red clay with gray-green silt | | | | 8 | | | | | | | | | |
| 10 | Red clay with 15% dark gray dolomite | 0931 | | SB @ 10 ft = 544 | | 10 | | | | | | | | | |
| 12 | | | | | | 12 | | | | | | | | | |
| 14 | Red & gray silt with 15% gray-white gypsum | | 20 ft - heavy rain delay | | | | SB @ 16 ft = 336 | 14 | | | | | | | |
| 16 | | 0948 | | | | | | SB @ 20 ft = 432 | 16 | | | | | | |
| 18 | Red silt with gray & white, vitreous gypsum flakes; 20% dark gray dolomite | 0952 | | | | | | | | | 18 | | | | |
| 20 | | | | | | | | | | 20 | | | | | |
| 22 | | | | | | | | | | | 22 | | | | |
| 24 | Gray-white gypsum/dolomitic layers with tan silt | | | | | | 38 ft - Heavy rain delay; bit change | | | | 24 | | | | |
| 26 | | | | | | | | | | | | | | 26 | |
| 28 | | | | | | | | | | | | | | | 28 |
| 30 | | 1028 | | | | | | | | | | SB @ 30 ft = 192 | 30 | | |
| 32 | | | | | | | | | | | | | | | 32 |
| 34 | | | | | | | | | | | | 34 | | | |
| 36 | | | | | | | | | | | | 36 | | | |
| 38 | | | | | | | | | | | | 38 | | | |
| 40 | | | | | | | | | | | | 40 | | | |
| 42 | | | 1110 | | | SB @ 42.5 ft = 288 | | | | | 42 | | | | |
| 44 | Gray silt with dark gray-white dolomite | | | | | | | 44 | | | | | | | |
| 46 | | | | | | | 46 | | | | | | | | |
| 48 | | | | | | | | 48 | | | | | | | |
| 50 | Tan-light gray silt with 40% hard, gray limestone or dolostone layers or lenses | | 52-90 ft - hard drilling | | | | | 50 | | | | | | | |
| 52 | | 1135 | | | | | | SB @ 52 ft = 208 | 52 | | | | | | |
| 54 | | | | | | | | | | | 54 | | | | |
| 56 | | | | | | | | | | | 56 | | | | |
| 58 | | | | | | | | | | | 58 | | | | |
| 60 | | 1200 | | | | | | At 60 ft, calcite or gypsum crystals appear until TD | | | 60 | | | | |
| 62 | | | | | | | | | | | | 62 | | | |
| 64 | | | | | | | | | | | | 64 | | | |
| 66 | | 1221 | | | | | | | | | | 66 | | | |
| 68 | | | | | | | | | | | | 68 | | | |
| 70 | | | | | | | 70 | | | | | | | | |
| 72 | | | | | | | | 72 | | | | | | | |
| 74 | 1240 | | | SB @ 73 ft = 352 | | 74 | | | | | | | | | |
| 76 | | | | | | | | 76 | | | | | | | |
| 78 | | | At 79 ft, becomes dusty (finer, less consolidated) | | | | | 78 | | | | | | | |
| 80 | | | | | | | | | | | 80 | | | | |
| 82 | | | | | | | | | | | | 82 | | | |
| 84 | | | | | | | | | | | | 84 | | | |
| 86 | | | | | | | | | | | | 86 | | | |
| 88 | | | | | | | | | | | | 88 | | | |
| 90 | 1352 | | | | | | | | SB @ 73 ft = 384 | 90 | | | | | |
| 92 | | | | | | | | | | | | 92 | | | |
| 94 | | | | | | | | | | | | 94 | | | |
| 96 | | | | | | | | | | | | 96 | | | |
| 98 | | | | | | | | 98 | | | | | | | |
| 100 | | | | | | | | 100 | | | | | | | |
| 102 | | | | | | | | 102 | | | | | | | |
| 104 | | | | | | | | 104 | | | | | | | |
| TD 105 | | 1447 | TD = 105 ft | | | | SB @ 73 ft = 576 | TD 105 | | | | | | | |

| | | |
|--|--|------------------|
| R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 | Murchison Oil & Gas | Plate # |
| | Ogden 5A Release: Soil Boring Log | Sept 2023 |



3-ft sample: demonstration of plasticity



6-ft sample: appearance of red clay at bottom of auger

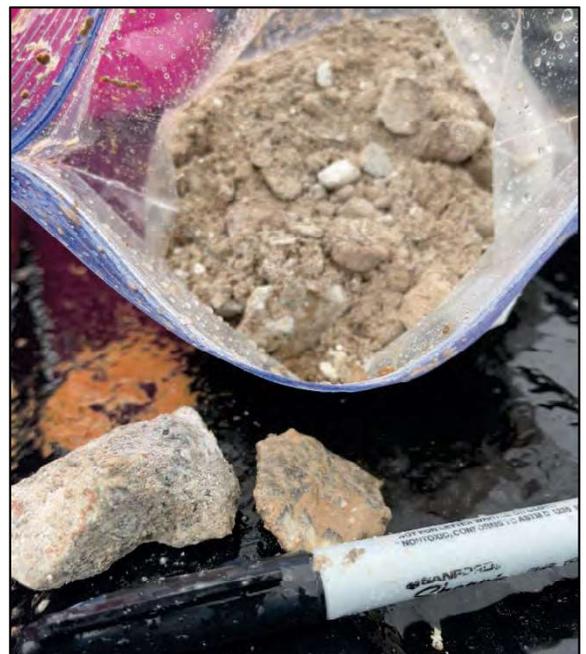
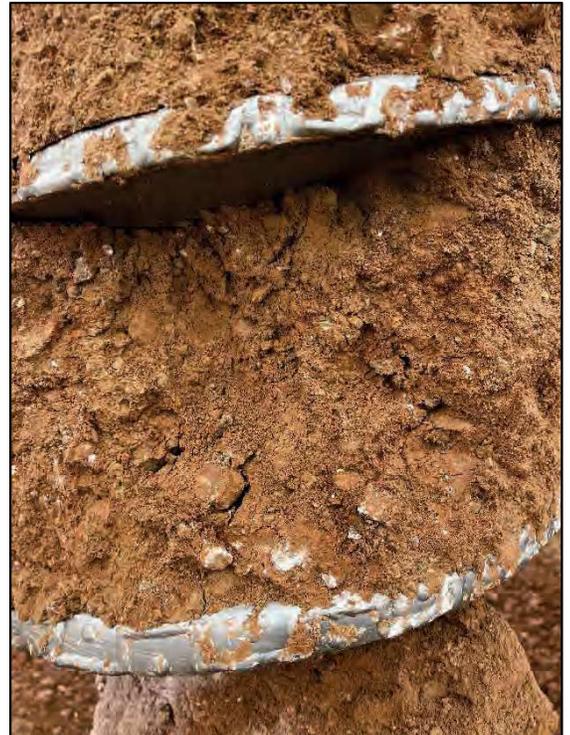
10-ft sample: auger (right), dolomite (bottom)





16-ft sample: Silt with gypsum or dolomite

20-ft sample: Auger (left) and vitreous gypsum shown (bottom)



30-ft sample: Dolomite or gypsum with silt



42.5 ft-sample: Silt with dolomite

52-ft sample: hard limestone or dolomite in silt (left),
auger(right)



60-ft sample



73-ft sample: auger (left), silt with limestone or dolomite (above)

90-ft sample: returns have become dusty



Hard dolomite or limestone at 95 ft



Hard dolomite at 99 ft



105-ft sample from TD (above); spin of final TOOH (left)

Attachment III

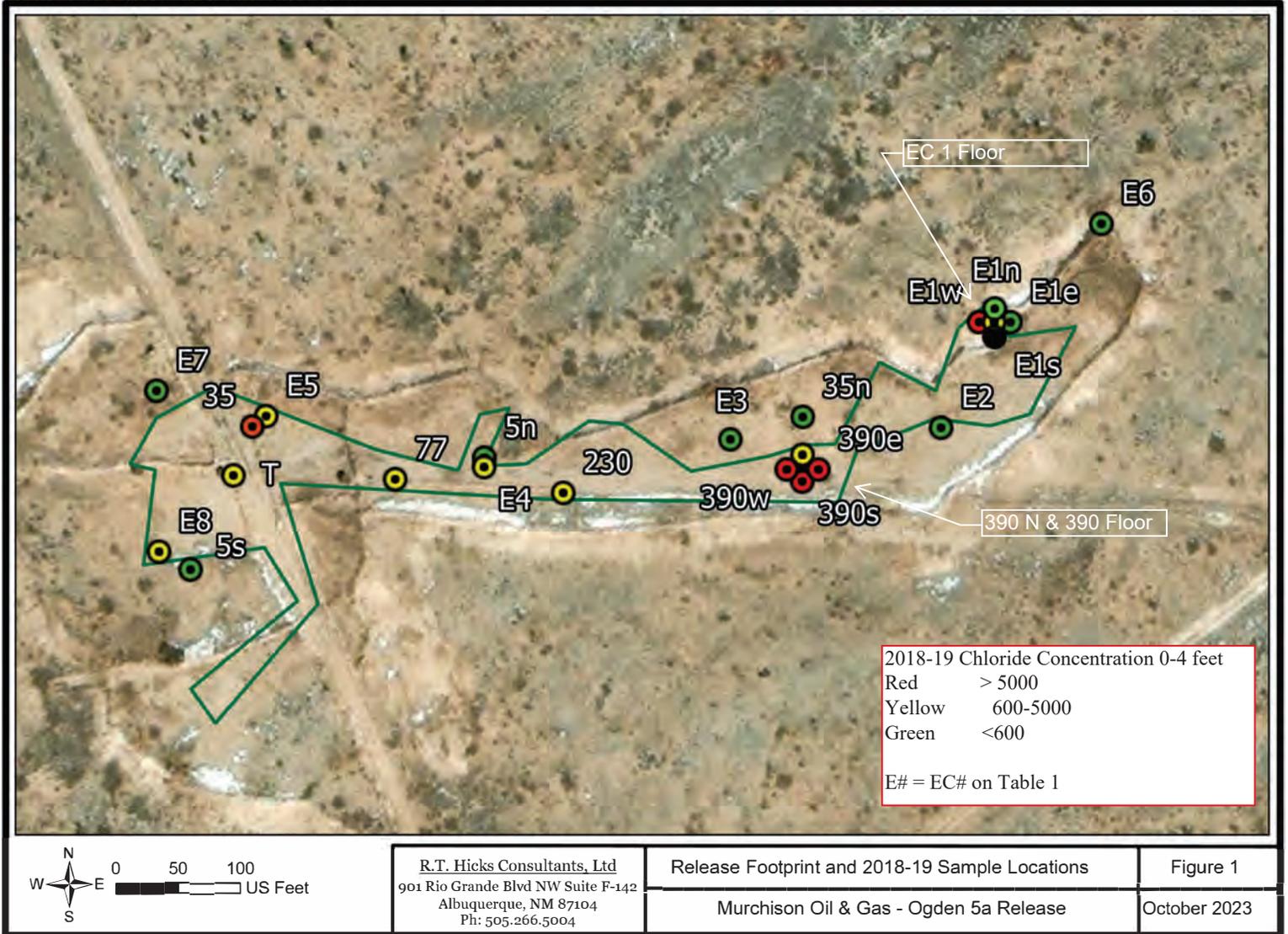
RT Hick Consultants, Ltd.

Figure 1 - Release Footprint and 2018-19 Sample Locations

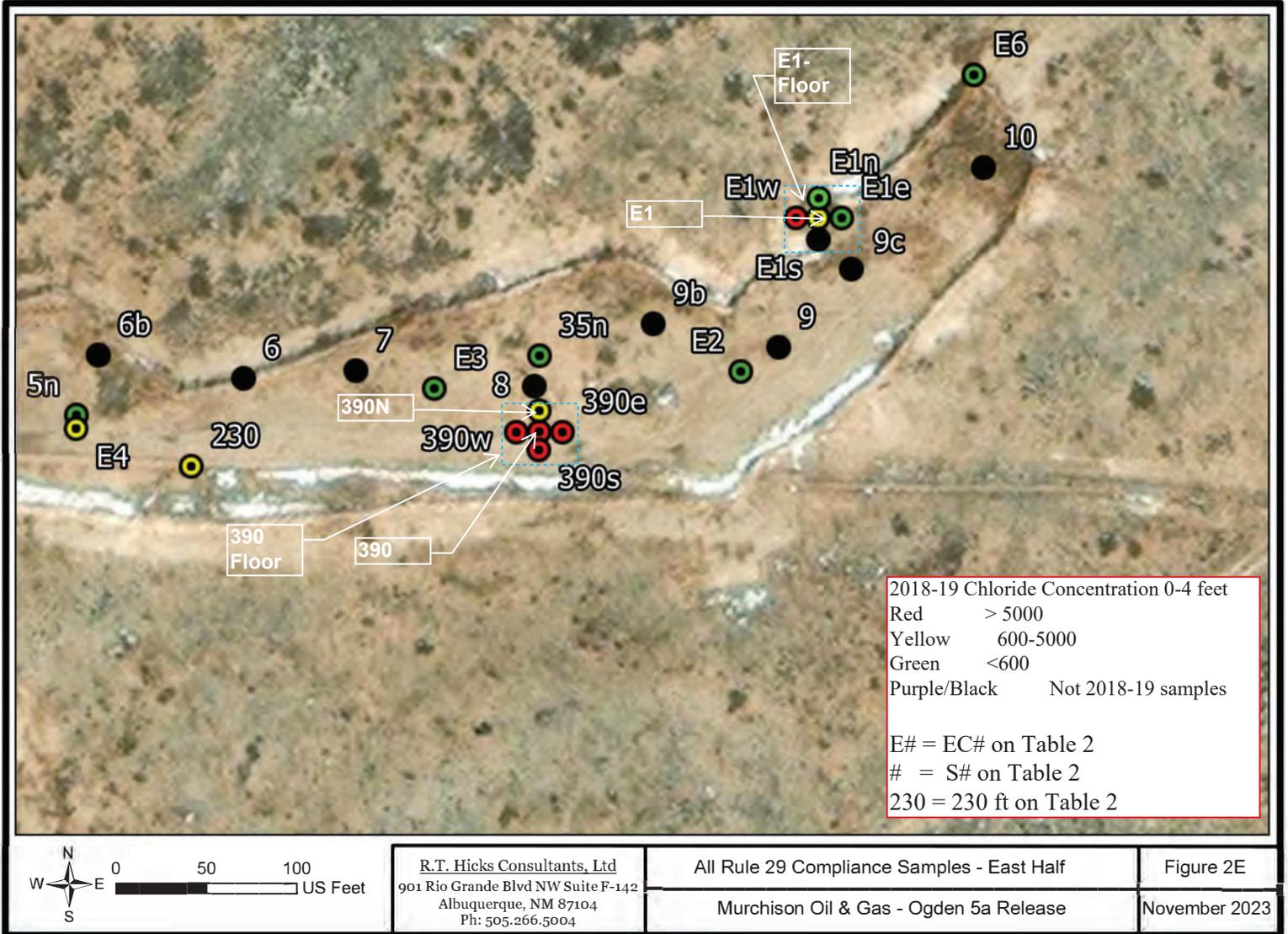
Figure 2E - All Rule 29 Compliance Samples – East Half

Figure 2W - All Rule 29 Compliance Samples – West Half

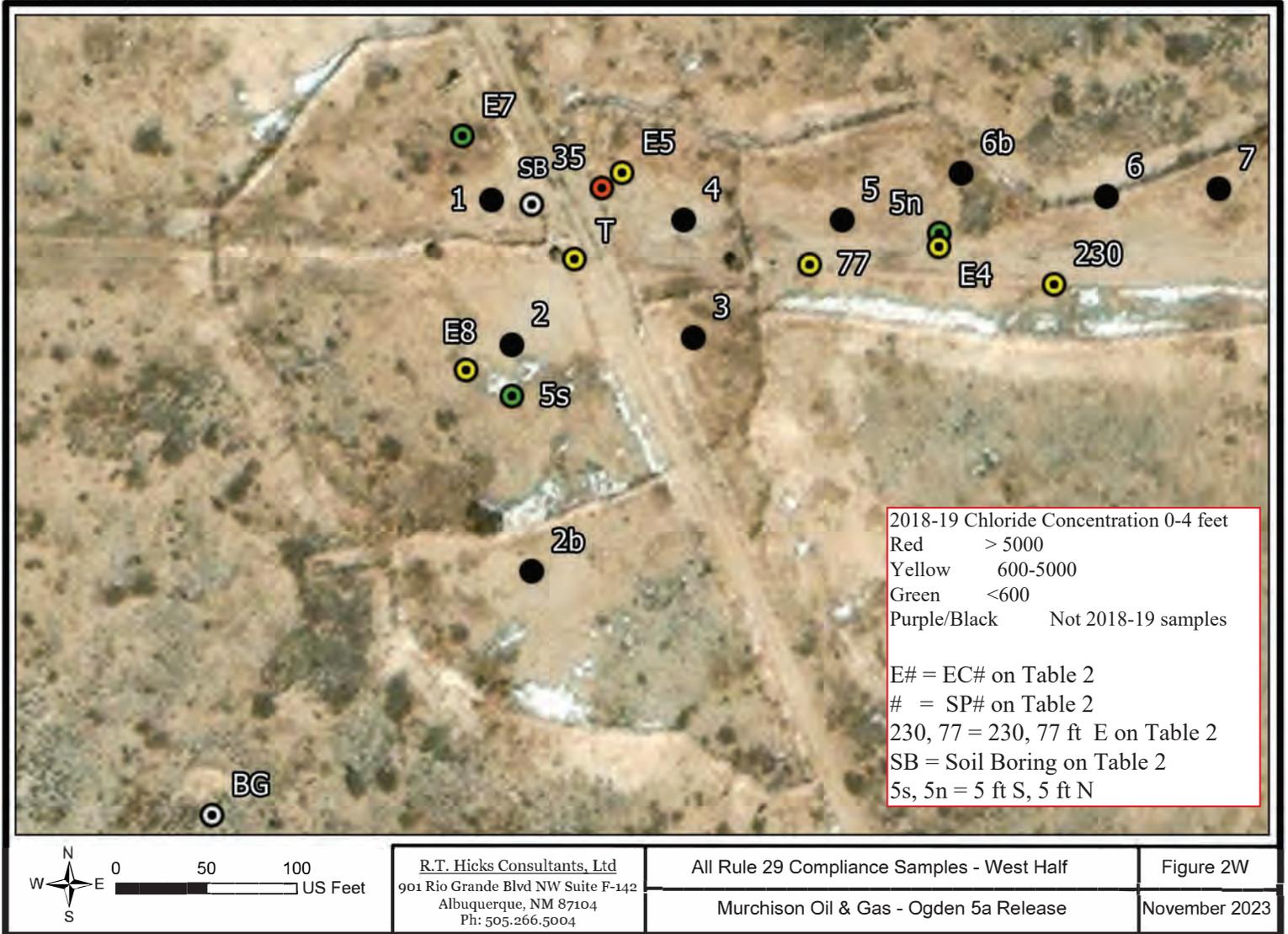
P:\Murchison Ogden 5a\Ogden5aRelease.aprx



P:\Murchison Ogden 5a\Ogden5aRelease.aprx



P:\Murchison Ogden 5a\Ogden5aRelease.aprx



Attachment IV
RT Hick Consultants, Ltd.
Site Characterization/Assessment Report, Ogden State 5a
Release Volume 2, Sampling History and Methods, Laboratory
Reports

July 2023

**Site Characterization/Assessment Report
Ogden State 5a Release
Volume 2
Sampling History and Methods
Laboratory Reports**



View of background sampling location showing the quality of vegetation and topsoil outside of the release footprint.

**Prepared for:
Murchison Oil and Gas LLC
Plano, Texas**

**Prepared by:
R.T. Hicks Consultants, Ltd.
901 Rio Grande NW F-142
Albuquerque, New Mexico**

Appendix – Explanation of Field Investigations

Release Footprint Characterization Protocol

CM Services obtained clearance from the NM811 “one-call” service for underground facilities location before any excavation. RT Hicks Consultants was responsible for the collection, storage, integrity, and transport of all samples.

We followed the procedures transmitted to NMOCD in January 19, 2022. On January 19, 2022, Hicks Consultants met with JC Services to obtain 28 samples from 7 locations at the site) and returned to collect 12 samples on February 2, 2023 (see Figure 1). The samples were obtained from the following depth intervals and submitted to Cardinal Laboratories for analysis.

- a. 0-4 feet depth interval
- b. 0-2 foot depth
- c. 2-4 foot depth
- d. 4.2 feet depth

We sampled locations 1-6 and a background location during the January 2022 sampling event. Locations 1-6 were all located within the surface area of the release.

Horizontal Characterization

We returned to the site on February 2, 2023 to re-sample locations 1-6 and added locations 7 and 8 using the protocol described previously. Sample locations 7-8 were selected to determine what, if any, lateral impacts were caused outside the surface footprint of the release. The locations of 7 and 8 were determined by ease of access, surface and sub-surface facilities, and geometry of the release observed by field personnel. Five borings, spaced about 100 feet apart characterize the impacts along the main flow path of water from the source of produced water to the distal end of the footprint. These are labeled 1, 5, 9, 13 and 16.

- Eight borings, also spaced about 100 feet apart, characterize the magnitude of horizontal spread from the flow line to the edges of the footprint. These locations are: 3, 4, 6, 7, 8, 10, 11, 14, 15
- Three locations are outside of but near to the obvious release footprint to determine if lateral spread in the soil zone may have occurred. They are: 2, 12, 17

Vertical Characterization

The results of the January 2022 sampling to the depth of 4.3 feet demonstrated that vertical characterization of the release area was incomplete. Hicks Consultants with JCS mobilized to the site on December 20, 2022 to obtain four trench samples to greater depth. They are:

- L-5, the source of the release
- L-10 and L-11, locations midway along the release path and footprint, and
- L-16 at the distal end of the release.

Samples were collected at the depths of:

- a. 4.3 feet to allow comparison with the shallower samples collected in January 2022
- b. 6.0 feet
- c. 9.0 feet
- d. 12.0 feet

Appendix – Explanation of Field Investigations

- e. An additional sample at greater depth if possible.

JC Services provided an excavator and an operator for the sampling. The procedures used were the same as used in January 2022 with adaptations to the use of the backhoe as compared to the auger. We preserved the samples on ice and submitted coolers to Hall Environmental Laboratories on Dec. 21, 2022 for analysis.

We requested chloride analyses for all samples. Based upon the January sampling results, we asked Hall to evaluate all samples from L-11 for TPH, GRO/DRO, and BTEX/benzene as the L-11 shallow samples had the highest concentrations for hydrocarbons.

LABORATORY REPORTS
IN CHRONOLOGICAL ORDER



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 23, 2018

Kristin Pope

R.T. Hicks Consultants, LTD

901 Rio Grande Blvd. NW

Suite F-142

Albuquerque, NM 87104

TEL: (505) 266-5004

FAX (505) 266-0745

RE: Murchison Jawbone Ogden Release

OrderNo.: 1805021

Dear Kristin Pope:

Hall Environmental Analysis Laboratory received 15 sample(s) on 5/1/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1805021**

Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Tee @ 0-6"

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 10:05:00 AM

Lab ID: 1805021-001

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|-----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 4800 | 300 | | mg/Kg | 200 | 5/21/2018 6:46:29 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 18 | 9.3 | | mg/Kg | 1 | 5/4/2018 3:43:41 PM | 37939 |
| Motor Oil Range Organics (MRO) | 60 | 47 | | mg/Kg | 1 | 5/4/2018 3:43:41 PM | 37939 |
| Surr: DNOP | 104 | 70-130 | | %Rec | 1 | 5/4/2018 3:43:41 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 5/2/2018 12:23:27 PM | 37887 |
| Surr: BFB | 82.9 | 15-316 | | %Rec | 1 | 5/2/2018 12:23:27 PM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/2/2018 12:23:27 PM | 37887 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 5/2/2018 12:23:27 PM | 37887 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 5/2/2018 12:23:27 PM | 37887 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 5/2/2018 12:23:27 PM | 37887 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 5/2/2018 12:23:27 PM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order **1805021**

Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Tee @ 6-12"

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 10:11:00 AM

Lab ID: 1805021-002

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 830 | 30 | | mg/Kg | 20 | 5/8/2018 12:45:54 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 140 | 10 | | mg/Kg | 1 | 5/4/2018 4:50:12 PM | 37939 |
| Motor Oil Range Organics (MRO) | 260 | 51 | | mg/Kg | 1 | 5/4/2018 4:50:12 PM | 37939 |
| Surr: DNOP | 97.9 | 70-130 | | %Rec | 1 | 5/4/2018 4:50:12 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 5/2/2018 1:33:42 PM | 37887 |
| Surr: BFB | 83.1 | 15-316 | | %Rec | 1 | 5/2/2018 1:33:42 PM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order 1805021

Date Reported: 5/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Tee @ 1-2'

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 10:30:00 AM

Lab ID: 1805021-003

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 1100 | 75 | | mg/Kg | 50 | 5/21/2018 6:58:53 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 35 | 10 | | mg/Kg | 1 | 5/4/2018 5:12:10 PM | 37939 |
| Motor Oil Range Organics (MRO) | 85 | 50 | | mg/Kg | 1 | 5/4/2018 5:12:10 PM | 37939 |
| Surr: DNOP | 99.2 | 70-130 | | %Rec | 1 | 5/4/2018 5:12:10 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 5/2/2018 8:57:52 PM | 37887 |
| Surr: BFB | 82.0 | 15-316 | | %Rec | 1 | 5/2/2018 8:57:52 PM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/2/2018 8:57:52 PM | 37887 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 5/2/2018 8:57:52 PM | 37887 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 5/2/2018 8:57:52 PM | 37887 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 5/2/2018 8:57:52 PM | 37887 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 5/2/2018 8:57:52 PM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order **1805021**

Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Tee @ 2-3'

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 10:35:00 AM

Lab ID: 1805021-004

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 1100 | 75 | | mg/Kg | 50 | 5/21/2018 7:11:17 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 130 | 9.5 | | mg/Kg | 1 | 5/4/2018 5:34:17 PM | 37939 |
| Motor Oil Range Organics (MRO) | 240 | 47 | | mg/Kg | 1 | 5/4/2018 5:34:17 PM | 37939 |
| Surr: DNOP | 104 | 70-130 | | %Rec | 1 | 5/4/2018 5:34:17 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 5/2/2018 9:21:04 PM | 37887 |
| Surr: BFB | 82.7 | 15-316 | | %Rec | 1 | 5/2/2018 9:21:04 PM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order **1805021**

Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Tee @ 3-4'

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 10:40:00 AM

Lab ID: 1805021-005

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 1500 | 75 | | mg/Kg | 50 | 5/21/2018 7:23:42 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 54 | 9.7 | | mg/Kg | 1 | 5/4/2018 5:56:23 PM | 37939 |
| Motor Oil Range Organics (MRO) | 110 | 48 | | mg/Kg | 1 | 5/4/2018 5:56:23 PM | 37939 |
| Surr: DNOP | 107 | 70-130 | | %Rec | 1 | 5/4/2018 5:56:23 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 5/2/2018 9:44:16 PM | 37887 |
| Surr: BFB | 83.4 | 15-316 | | %Rec | 1 | 5/2/2018 9:44:16 PM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/2/2018 9:44:16 PM | 37887 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 5/2/2018 9:44:16 PM | 37887 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 5/2/2018 9:44:16 PM | 37887 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 5/2/2018 9:44:16 PM | 37887 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 5/2/2018 9:44:16 PM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order **1805021**

Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Tee @ 4-5'

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 10:44:00 AM

Lab ID: 1805021-006

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|-----|--------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 1600 | | 75 | mg/Kg | 50 | 5/21/2018 7:36:06 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 34 | | 9.6 | mg/Kg | 1 | 5/4/2018 6:18:34 PM | 37939 |
| Motor Oil Range Organics (MRO) | 73 | | 48 | mg/Kg | 1 | 5/4/2018 6:18:34 PM | 37939 |
| Surr: DNOP | 106 | | 70-130 | %Rec | 1 | 5/4/2018 6:18:34 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | | 4.6 | mg/Kg | 1 | 5/2/2018 11:17:12 PM | 37887 |
| Surr: BFB | 90.1 | | 15-316 | %Rec | 1 | 5/2/2018 11:17:12 PM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | | 0.023 | mg/Kg | 1 | 5/2/2018 11:17:12 PM | 37887 |
| Toluene | ND | | 0.046 | mg/Kg | 1 | 5/2/2018 11:17:12 PM | 37887 |
| Ethylbenzene | ND | | 0.046 | mg/Kg | 1 | 5/2/2018 11:17:12 PM | 37887 |
| Xylenes, Total | ND | | 0.092 | mg/Kg | 1 | 5/2/2018 11:17:12 PM | 37887 |
| Surr: 4-Bromofluorobenzene | 102 | | 80-120 | %Rec | 1 | 5/2/2018 11:17:12 PM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order **1805021**

Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 77' E @ 0-6"

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 12:08:00 PM

Lab ID: 1805021-007

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|-----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 16000 | 750 | | mg/Kg | 500 | 5/21/2018 7:48:30 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 5/4/2018 6:40:43 PM | 37939 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 5/4/2018 6:40:43 PM | 37939 |
| Surr: DNOP | 103 | 70-130 | | %Rec | 1 | 5/4/2018 6:40:43 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 5/2/2018 11:40:25 PM | 37887 |
| Surr: BFB | 91.0 | 15-316 | | %Rec | 1 | 5/2/2018 11:40:25 PM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/2/2018 11:40:25 PM | 37887 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 5/2/2018 11:40:25 PM | 37887 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 5/2/2018 11:40:25 PM | 37887 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 5/2/2018 11:40:25 PM | 37887 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 5/2/2018 11:40:25 PM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order **1805021**

Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 77' E @ 6-12"

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 12:10:00 PM

Lab ID: 1805021-008

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|-----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 11000 | 750 | | mg/Kg | 500 | 5/21/2018 8:00:55 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 5/4/2018 7:02:57 PM | 37939 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 5/4/2018 7:02:57 PM | 37939 |
| Surr: DNOP | 115 | 70-130 | | %Rec | 1 | 5/4/2018 7:02:57 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 5/3/2018 12:03:40 AM | 37887 |
| Surr: BFB | 90.3 | 15-316 | | %Rec | 1 | 5/3/2018 12:03:40 AM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order **1805021**

Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 77' E @ 1-2'

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 12:30:00 PM

Lab ID: 1805021-009

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|-----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 8200 | 750 | | mg/Kg | 500 | 5/21/2018 8:38:08 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 5/4/2018 7:25:02 PM | 37939 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 5/4/2018 7:25:02 PM | 37939 |
| Surr: DNOP | 106 | 70-130 | | %Rec | 1 | 5/4/2018 7:25:02 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 5/3/2018 12:26:54 AM | 37887 |
| Surr: BFB | 89.2 | 15-316 | | %Rec | 1 | 5/3/2018 12:26:54 AM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 5/3/2018 12:26:54 AM | 37887 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 5/3/2018 12:26:54 AM | 37887 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 5/3/2018 12:26:54 AM | 37887 |
| Xylenes, Total | ND | 0.091 | | mg/Kg | 1 | 5/3/2018 12:26:54 AM | 37887 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 5/3/2018 12:26:54 AM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order **1805021**

Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 77' E @ 2-3'

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 12:38:00 PM

Lab ID: 1805021-010

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|-----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 8300 | 750 | | mg/Kg | 500 | 5/21/2018 8:50:33 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 5/4/2018 7:47:12 PM | 37939 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 5/4/2018 7:47:12 PM | 37939 |
| Surr: DNOP | 106 | 70-130 | | %Rec | 1 | 5/4/2018 7:47:12 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 5/3/2018 12:50:13 AM | 37887 |
| Surr: BFB | 90.7 | 15-316 | | %Rec | 1 | 5/3/2018 12:50:13 AM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order 1805021

Date Reported: 5/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 77' E @ 3-4'

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 12:44:00 PM

Lab ID: 1805021-011

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|-----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 4400 | 300 | | mg/Kg | 200 | 5/21/2018 9:02:57 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 5/4/2018 8:09:12 PM | 37939 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 5/4/2018 8:09:12 PM | 37939 |
| Surr: DNOP | 104 | 70-130 | | %Rec | 1 | 5/4/2018 8:09:12 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 5/3/2018 1:13:39 AM | 37887 |
| Surr: BFB | 89.0 | 15-316 | | %Rec | 1 | 5/3/2018 1:13:39 AM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/3/2018 1:13:39 AM | 37887 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 5/3/2018 1:13:39 AM | 37887 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 5/3/2018 1:13:39 AM | 37887 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 5/3/2018 1:13:39 AM | 37887 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 5/3/2018 1:13:39 AM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order 1805021

Date Reported: 5/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 77' E @ 4-5'

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 12:49:00 PM

Lab ID: 1805021-012

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|-----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 3400 | 150 | | mg/Kg | 100 | 5/21/2018 9:15:22 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 5/4/2018 8:31:27 PM | 37939 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 5/4/2018 8:31:27 PM | 37939 |
| Surr: DNOP | 95.1 | 70-130 | | %Rec | 1 | 5/4/2018 8:31:27 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 5/3/2018 1:37:06 AM | 37887 |
| Surr: BFB | 92.3 | 15-316 | | %Rec | 1 | 5/3/2018 1:37:06 AM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 5/3/2018 1:37:06 AM | 37887 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 5/3/2018 1:37:06 AM | 37887 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 5/3/2018 1:37:06 AM | 37887 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 5/3/2018 1:37:06 AM | 37887 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 5/3/2018 1:37:06 AM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order **1805021**

Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 35' NE @ 0-6"

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 12:15:00 PM

Lab ID: 1805021-013

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|-----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 8600 | 750 | | mg/Kg | 500 | 5/21/2018 9:27:46 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 5/4/2018 8:53:32 PM | 37939 |
| Motor Oil Range Organics (MRO) | ND | 52 | | mg/Kg | 1 | 5/4/2018 8:53:32 PM | 37939 |
| Surr: DNOP | 99.9 | 70-130 | | %Rec | 1 | 5/4/2018 8:53:32 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 5/3/2018 2:00:34 AM | 37887 |
| Surr: BFB | 88.2 | 15-316 | | %Rec | 1 | 5/3/2018 2:00:34 AM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/3/2018 2:00:34 AM | 37887 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 5/3/2018 2:00:34 AM | 37887 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 5/3/2018 2:00:34 AM | 37887 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 5/3/2018 2:00:34 AM | 37887 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 5/3/2018 2:00:34 AM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order 1805021

Date Reported: 5/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 230' E @ 0-6"

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 12:25:00 PM

Lab ID: 1805021-014

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 47000 | 1500 | | mg/Kg | 1E | 5/21/2018 9:40:11 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 12 | | mg/Kg | 1 | 5/4/2018 9:15:46 PM | 37939 |
| Motor Oil Range Organics (MRO) | ND | 58 | | mg/Kg | 1 | 5/4/2018 9:15:46 PM | 37939 |
| Surr: DNOP | 86.7 | 70-130 | | %Rec | 1 | 5/4/2018 9:15:46 PM | 37939 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 5/3/2018 2:23:54 AM | 37887 |
| Surr: BFB | 88.0 | 15-316 | | %Rec | 1 | 5/3/2018 2:23:54 AM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 5/3/2018 2:23:54 AM | 37887 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 5/3/2018 2:23:54 AM | 37887 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 5/3/2018 2:23:54 AM | 37887 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 5/3/2018 2:23:54 AM | 37887 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 5/3/2018 2:23:54 AM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order 1805021

Date Reported: 5/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 390' E @ 0-6"

Project: Murchison Jawbone Ogden Release

Collection Date: 4/26/2018 12:36:00 PM

Lab ID: 1805021-015

Matrix: SOIL

Received Date: 5/1/2018 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 760 | 30 | | mg/Kg | 20 | 5/8/2018 3:52:02 PM | 37984 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 5/8/2018 9:32:37 AM | 37975 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 5/8/2018 9:32:37 AM | 37975 |
| Surr: DNOP | 89.8 | 70-130 | | %Rec | 1 | 5/8/2018 9:32:37 AM | 37975 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 5/3/2018 2:47:05 AM | 37887 |
| Surr: BFB | 90.6 | 15-316 | | %Rec | 1 | 5/3/2018 2:47:05 AM | 37887 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/3/2018 2:47:05 AM | 37887 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 5/3/2018 2:47:05 AM | 37887 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 5/3/2018 2:47:05 AM | 37887 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 5/3/2018 2:47:05 AM | 37887 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 5/3/2018 2:47:05 AM | 37887 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805021

23-May-18

Client: R.T. Hicks Consultants, LTD
Project: Murchison Jawbone Ogden Release

| Sample ID MB-37984 | SampType: mblk | | TestCode: EPA Method 300.0: Anions | | | | | | | |
|----------------------------|--------------------------------|-----|---|---------------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 37984 | | RunNo: 51112 | | | | | | | |
| Prep Date: 5/8/2018 | Analysis Date: 5/8/2018 | | SeqNo: 1661424 | Units: mg/Kg | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID LCS-37984 | SampType: lcs | | TestCode: EPA Method 300.0: Anions | | | | | | | |
|----------------------------|--------------------------------|-----|---|---------------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 37984 | | RunNo: 51112 | | | | | | | |
| Prep Date: 5/8/2018 | Analysis Date: 5/8/2018 | | SeqNo: 1661425 | Units: mg/Kg | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 96.0 | 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805021

23-May-18

Client: R.T. Hicks Consultants, LTD
Project: Murchison Jawbone Ogden Release

| Sample ID | 1805021-001AMS | SampType: | MS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
|-----------------------------|-----------------------|----------------|-----------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | Tee @ 0-6" | Batch ID: | 37939 | RunNo: | 51045 | | | | | |
| Prep Date: | 5/3/2018 | Analysis Date: | 5/4/2018 | SeqNo: | 1658619 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 57 | 9.4 | 47.17 | 18.38 | 82.5 | 55.8 | 125 | | | |
| Surr: DNOP | 4.9 | | 4.717 | | 103 | 70 | 130 | | | |

| Sample ID | 1805021-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
|-----------------------------|------------------------|----------------|-----------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | Tee @ 0-6" | Batch ID: | 37939 | RunNo: | 51045 | | | | | |
| Prep Date: | 5/3/2018 | Analysis Date: | 5/4/2018 | SeqNo: | 1658620 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 60 | 9.5 | 47.44 | 18.38 | 87.4 | 55.8 | 125 | 4.37 | 20 | |
| Surr: DNOP | 4.7 | | 4.744 | | 98.4 | 70 | 130 | 0 | 0 | |

| Sample ID | LCS-37939 | SampType: | LCS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
|-----------------------------|------------------|----------------|-----------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 37939 | RunNo: | 51045 | | | | | |
| Prep Date: | 5/3/2018 | Analysis Date: | 5/4/2018 | SeqNo: | 1658642 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 94.7 | 70 | 130 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 93.6 | 70 | 130 | | | |

| Sample ID | MB-37939 | SampType: | MBLK | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
|--------------------------------|-----------------|----------------|-----------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 37939 | RunNo: | 51045 | | | | | |
| Prep Date: | 5/3/2018 | Analysis Date: | 5/4/2018 | SeqNo: | 1658643 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.9 | | 10.00 | | 99.3 | 70 | 130 | | | |

| Sample ID | LCS-37975 | SampType: | LCS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
|-----------------------------|------------------|----------------|-----------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 37975 | RunNo: | 51107 | | | | | |
| Prep Date: | 5/7/2018 | Analysis Date: | 5/8/2018 | SeqNo: | 1660527 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52 | 10 | 50.00 | 0 | 105 | 70 | 130 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 95.3 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805021

23-May-18

Client: R.T. Hicks Consultants, LTD
Project: Murchison Jawbone Ogden Release

| Sample ID | MB-37975 | SampType: | MBLK | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
|--------------------------------|-----------------|----------------|-----------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 37975 | RunNo: | 51107 | | | | | |
| Prep Date: | 5/7/2018 | Analysis Date: | 5/8/2018 | SeqNo: | 1660528 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 10 | | 10.00 | | 103 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805021

23-May-18

Client: R.T. Hicks Consultants, LTD
Project: Murchison Jawbone Ogden Release

| Sample ID MB-37887 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 37887 | | RunNo: 50982 | | | | | | | |
| Prep Date: 5/1/2018 | Analysis Date: 5/2/2018 | | SeqNo: 1655651 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 910 | | 1000 | | 90.6 | 15 | 316 | | | |

| Sample ID LCS-37887 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 37887 | | RunNo: 50982 | | | | | | | |
| Prep Date: 5/1/2018 | Analysis Date: 5/2/2018 | | SeqNo: 1655652 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27 | 5.0 | 25.00 | 0 | 108 | 75.9 | 131 | | | |
| Surr: BFB | 1000 | | 1000 | | 102 | 15 | 316 | | | |

| Sample ID 1805021-001AMS | SampType: MS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|---------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: Tee @ 0-6" | Batch ID: 37887 | | RunNo: 50982 | | | | | | | |
| Prep Date: 5/1/2018 | Analysis Date: 5/2/2018 | | SeqNo: 1655654 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27 | 4.9 | 24.34 | 0 | 112 | 77.8 | 128 | | | |
| Surr: BFB | 950 | | 973.7 | | 97.5 | 15 | 316 | | | |

| Sample ID 1805021-001AMSD | SampType: MSD | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|----------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: Tee @ 0-6" | Batch ID: 37887 | | RunNo: 50982 | | | | | | | |
| Prep Date: 5/1/2018 | Analysis Date: 5/2/2018 | | SeqNo: 1655655 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 29 | 5.0 | 24.98 | 0 | 115 | 77.8 | 128 | 4.43 | 20 | |
| Surr: BFB | 1000 | | 999.0 | | 99.7 | 15 | 316 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805021

23-May-18

Client: R.T. Hicks Consultants, LTD
Project: Murchison Jawbone Ogden Release

| Sample ID MB-37887 | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|----------------------------|--------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 37887 | | RunNo: 50982 | | | | | | | |
| Prep Date: 5/1/2018 | Analysis Date: 5/2/2018 | | SeqNo: 1655691 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 105 | 80 | 120 | | | |

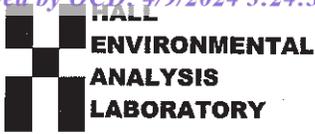
| Sample ID LCS-37887 | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|----------------------------|--------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 37887 | | RunNo: 50982 | | | | | | | |
| Prep Date: 5/1/2018 | Analysis Date: 5/2/2018 | | SeqNo: 1655692 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.99 | 0.025 | 1.000 | 0 | 98.9 | 77.3 | 128 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 102 | 79.2 | 125 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80.7 | 127 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 103 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 109 | 80 | 120 | | | |

| Sample ID 1805021-002AMS | SampType: MS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|---------------------------------|--------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: Tee @ 6-12" | Batch ID: 37887 | | RunNo: 50982 | | | | | | | |
| Prep Date: 5/1/2018 | Analysis Date: 5/2/2018 | | SeqNo: 1655695 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 1.2 | 0.096 | 0.9643 | 0 | 120 | 56.9 | 130 | | | |
| Benzene | 1.1 | 0.024 | 0.9643 | 0 | 116 | 68.5 | 133 | | | |
| Toluene | 1.2 | 0.048 | 0.9643 | 0.008333 | 120 | 75 | 130 | | | |
| Ethylbenzene | 1.2 | 0.048 | 0.9643 | 0 | 123 | 79.4 | 128 | | | |
| Xylenes, Total | 3.6 | 0.096 | 2.893 | 0 | 125 | 77.3 | 131 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9643 | | 104 | 80 | 120 | | | |

| Sample ID 1805021-002AMSD | SampType: MSD | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|----------------------------------|--------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: Tee @ 6-12" | Batch ID: 37887 | | RunNo: 50982 | | | | | | | |
| Prep Date: 5/1/2018 | Analysis Date: 5/2/2018 | | SeqNo: 1655696 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.024 | 0.9615 | 0 | 111 | 68.5 | 133 | 5.49 | 20 | |
| Toluene | 1.1 | 0.048 | 0.9615 | 0.008333 | 114 | 75 | 130 | 5.41 | 20 | |
| Ethylbenzene | 1.1 | 0.048 | 0.9615 | 0 | 116 | 79.4 | 128 | 6.05 | 20 | |
| Xylenes, Total | 3.4 | 0.096 | 2.885 | 0 | 118 | 77.3 | 131 | 5.91 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9615 | | 104 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: RT HICKS

Work Order Number: 1805021

RcptNo: 1

Received By: Isaiah Ortiz

5/1/2018 9:15:00 AM

IO

Completed By: Ashley Gallegos

5/1/2018 12:03:24 PM

AG

Reviewed By: ENM

5/1/18

Labeled by:

IMO

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. VOA vials have zero headspace? Yes [] No [] No VOA Vials [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: (< 12 unless noted)
Adjusted? [checked]
Checked by: [signature]

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.1, Good, Yes, [], [], []

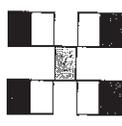
Chain-of-Custody Record

Client: RT Hicks Consultants
 Mailing Address: RT Hicks Consultants
 Phone #: _____
 email or Fax#: _____
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: NELAP Other _____
 EDD (Type) _____

Turn-Around Time: _____
 Standard Rush
 Project Name: Jawbone / Ogden
Murchison - Release
 Project #: _____
 Project Manager: Kristin Pope
 Sampler: K. Pope
 On Ice: Yes No
 Sample Temperature: 0.1

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No |
|---------|------|--------|-------------------|----------------------|-------------------|----------|
| 4-21-18 | 1215 | soil | 35' NE @ 0-6" | 9oz | ice | 18D55021 |
| | ↓ | | 230' E @ 0-6" | ↓ | ↓ | -013 |
| | ↓ | | 390' E @ 0-6" | ↓ | ↓ | -014 |
| | | | | | | -015 |

Date: _____ Time: _____
 Relinquished by: Kristin Pope Date: 4/30/18 Time: 0800
 Relinquished by: Doug Pope Date: 4/30/18 Time: 0820



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Analysis Request | Response |
|---|-------------------------------------|
| BTEX + MTBE + TMB's (8021) | <input checked="" type="checkbox"/> |
| BTEX + MTBE + TPH (Gas only) | <input checked="" type="checkbox"/> |
| TPH 8015B (GRO / DRO / MRO) | <input checked="" type="checkbox"/> |
| TPH (Method 418.1) | |
| EDB (Method 504.1) | |
| PAH's (8310 or 8270 SIMS) | |
| RCRA 8 Metals | <input checked="" type="checkbox"/> |
| Anions (Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | <input checked="" type="checkbox"/> |
| 8081 Pesticides / 8082 PCB's | |
| 8260B (VOA) | |
| 8270 (Semi-VOA) | |

Remarks: Email results



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 29, 2019

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: OGDEN ST. RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/24/19 12:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/24/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/29/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | ** (See Notes) |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 35' NE @ 0-2' (H900258-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4320 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 35' NE @ 2-4' (H900258-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3920 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 77' E @ 0-2' (H900258-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6000 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 77'E @ 2-4' (H900258-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1420 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/24/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/29/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | ** (See Notes) |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 230' E @ 0-2' (H900258-05)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8660 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 230' E @ 2-4' (H900258-06)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 960 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 390' E @ 0-2' (H900258-07)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8000 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 390' E @ 2-4' (H900258-08)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 624 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: EC-1 @ 0-2' (H900258-09)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2600 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/24/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/29/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | ** (See Notes) |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC-1 @ 2-4' (H900258-10)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 352 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: EC-4 @ 0-2' (H900258-11)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2720 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: EC-4 @ 2-4' (H900258-12)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 688 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: EC-5 @ 0-2' (H900258-13)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3360 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: EC-5 @ 2-4' (H900258-14)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1010 | 16.0 | 01/25/2019 | ND | 416 | 104 | 400 | 3.92 | |

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 22, 2019

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: OGDEN ST. RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/17/19 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 35' NE @ 0-4' (H900157-01)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.88 | 94.0 | 2.00 | 1.97 | |
| Toluene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.80 | 89.8 | 2.00 | 0.340 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.79 | 89.6 | 2.00 | 1.79 | |
| Total Xylenes* | <0.150 | 0.150 | 01/19/2019 | ND | 5.40 | 90.0 | 6.00 | 1.54 | |
| Total BTEX | <0.300 | 0.300 | 01/19/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5600 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 215 | 108 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 217 | 109 | 200 | 6.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 99.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 35' NE @ 5' (H900157-02)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.88 | 94.0 | 2.00 | 1.97 | |
| Toluene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.80 | 89.8 | 2.00 | 0.340 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.79 | 89.6 | 2.00 | 1.79 | |
| Total Xylenes* | <0.150 | 0.150 | 01/19/2019 | ND | 5.40 | 90.0 | 6.00 | 1.54 | |
| Total BTEX | <0.300 | 0.300 | 01/19/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5040 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | QM-07 |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 215 | 108 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 217 | 109 | 200 | 6.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.6 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 77' E @ 0-4' (H900157-03)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.88 | 94.0 | 2.00 | 1.97 | |
| Toluene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.80 | 89.8 | 2.00 | 0.340 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.79 | 89.6 | 2.00 | 1.79 | |
| Total Xylenes* | <0.150 | 0.150 | 01/19/2019 | ND | 5.40 | 90.0 | 6.00 | 1.54 | |
| Total BTEX | <0.300 | 0.300 | 01/19/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2880 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 215 | 108 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 217 | 109 | 200 | 6.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 77' E @ 5' (H900157-04)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.88 | 94.0 | 2.00 | 1.97 | |
| Toluene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.80 | 89.8 | 2.00 | 0.340 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.79 | 89.6 | 2.00 | 1.79 | |
| Total Xylenes* | <0.150 | 0.150 | 01/19/2019 | ND | 5.40 | 90.0 | 6.00 | 1.54 | |
| Total BTEX | <0.300 | 0.300 | 01/19/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1760 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 215 | 108 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 217 | 109 | 200 | 6.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 230' E @ 0-4' (H900157-05)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.88 | 94.0 | 2.00 | 1.97 | |
| Toluene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.80 | 89.8 | 2.00 | 0.340 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.79 | 89.6 | 2.00 | 1.79 | |
| Total Xylenes* | <0.150 | 0.150 | 01/19/2019 | ND | 5.40 | 90.0 | 6.00 | 1.54 | |
| Total BTEX | <0.300 | 0.300 | 01/19/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6320 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 215 | 108 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 217 | 109 | 200 | 6.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 230' E @ 5' (H900157-06)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.88 | 94.0 | 2.00 | 1.97 | |
| Toluene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.80 | 89.8 | 2.00 | 0.340 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.79 | 89.6 | 2.00 | 1.79 | |
| Total Xylenes* | <0.150 | 0.150 | 01/19/2019 | ND | 5.40 | 90.0 | 6.00 | 1.54 | |
| Total BTEX | <0.300 | 0.300 | 01/19/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 368 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 215 | 108 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 217 | 109 | 200 | 6.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 390' E @ 0-4' (H900157-07)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.88 | 94.0 | 2.00 | 1.97 | |
| Toluene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.80 | 89.8 | 2.00 | 0.340 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.79 | 89.6 | 2.00 | 1.79 | |
| Total Xylenes* | <0.150 | 0.150 | 01/19/2019 | ND | 5.40 | 90.0 | 6.00 | 1.54 | |
| Total BTEX | <0.300 | 0.300 | 01/19/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5600 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 215 | 108 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 217 | 109 | 200 | 6.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 390' E @ 4.3' (H900157-08)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.88 | 94.0 | 2.00 | 1.97 | |
| Toluene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.80 | 89.8 | 2.00 | 0.340 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/19/2019 | ND | 1.79 | 89.6 | 2.00 | 1.79 | |
| Total Xylenes* | <0.150 | 0.150 | 01/19/2019 | ND | 5.40 | 90.0 | 6.00 | 1.54 | |
| Total BTEX | <0.300 | 0.300 | 01/19/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3360 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 215 | 108 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 217 | 109 | 200 | 6.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorooctadecane 75.8 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 1 @ 0-4' (H900157-09)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.47 | 123 | 2.00 | 1.61 | | |
| Toluene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.37 | 118 | 2.00 | 1.89 | | |
| Ethylbenzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.32 | 116 | 2.00 | 1.18 | | |
| Total Xylenes* | <0.150 | 0.150 | 01/21/2019 | ND | 7.15 | 119 | 6.00 | 1.20 | | |
| Total BTEX | <0.300 | 0.300 | 01/21/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1140 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 198 | 99.1 | 200 | 0.887 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 193 | 96.5 | 200 | 1.97 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | | |

Surrogate: 1-Chlorooctane 77.4 % 41-142

Surrogate: 1-Chlorooctadecane 78.5 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 1 @ 4.3' (H900157-10)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.47 | 123 | 2.00 | 1.61 | |
| Toluene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.37 | 118 | 2.00 | 1.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.32 | 116 | 2.00 | 1.18 | |
| Total Xylenes* | <0.150 | 0.150 | 01/21/2019 | ND | 7.15 | 119 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 01/21/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 198 | 99.1 | 200 | 0.887 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 193 | 96.5 | 200 | 1.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 83.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 2 @ 0-4' (H900157-11)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.47 | 123 | 2.00 | 1.61 | |
| Toluene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.37 | 118 | 2.00 | 1.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.32 | 116 | 2.00 | 1.18 | |
| Total Xylenes* | <0.150 | 0.150 | 01/21/2019 | ND | 7.15 | 119 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 01/21/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 198 | 99.1 | 200 | 0.887 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 193 | 96.5 | 200 | 1.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.2 % 41-142

Surrogate: 1-Chlorooctadecane 81.2 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 2 @ 4.3' (H900157-12)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.47 | 123 | 2.00 | 1.61 | |
| Toluene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.37 | 118 | 2.00 | 1.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.32 | 116 | 2.00 | 1.18 | |
| Total Xylenes* | <0.150 | 0.150 | 01/21/2019 | ND | 7.15 | 119 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 01/21/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7200 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 198 | 99.1 | 200 | 0.887 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 193 | 96.5 | 200 | 1.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 3 @ 0-4' (H900157-13)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.47 | 123 | 2.00 | 1.61 | |
| Toluene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.37 | 118 | 2.00 | 1.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.32 | 116 | 2.00 | 1.18 | |
| Total Xylenes* | <0.150 | 0.150 | 01/21/2019 | ND | 7.15 | 119 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 01/21/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 198 | 99.1 | 200 | 0.887 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 193 | 96.5 | 200 | 1.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.7 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 3 @ 5' (H900157-14)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.47 | 123 | 2.00 | 1.61 | |
| Toluene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.37 | 118 | 2.00 | 1.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.32 | 116 | 2.00 | 1.18 | |
| Total Xylenes* | <0.150 | 0.150 | 01/21/2019 | ND | 7.15 | 119 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 01/21/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 198 | 99.1 | 200 | 0.887 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 193 | 96.5 | 200 | 1.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.5 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 4 @ 0-4' (H900157-15)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.47 | 123 | 2.00 | 1.61 | |
| Toluene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.37 | 118 | 2.00 | 1.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.32 | 116 | 2.00 | 1.18 | |
| Total Xylenes* | <0.150 | 0.150 | 01/21/2019 | ND | 7.15 | 119 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 01/21/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2320 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 198 | 99.1 | 200 | 0.887 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 193 | 96.5 | 200 | 1.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 80.8 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 4 @ 5' (H900157-16)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.47 | 123 | 2.00 | 1.61 | |
| Toluene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.37 | 118 | 2.00 | 1.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.32 | 116 | 2.00 | 1.18 | |
| Total Xylenes* | <0.150 | 0.150 | 01/21/2019 | ND | 7.15 | 119 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 01/21/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 198 | 99.1 | 200 | 0.887 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 193 | 96.5 | 200 | 1.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.8 % 41-142

Surrogate: 1-Chlorooctadecane 85.3 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 5 @ 0-4' (H900157-17)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.47 | 123 | 2.00 | 1.61 | |
| Toluene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.37 | 118 | 2.00 | 1.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.32 | 116 | 2.00 | 1.18 | |
| Total Xylenes* | <0.150 | 0.150 | 01/21/2019 | ND | 7.15 | 119 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 01/21/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1760 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 198 | 99.1 | 200 | 0.887 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 193 | 96.5 | 200 | 1.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 01/17/2019 | Sampling Date: | 01/16/2019 |
| Reported: | 01/22/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 5 @ 5' (H900157-18)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.47 | 123 | 2.00 | 1.61 | |
| Toluene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.37 | 118 | 2.00 | 1.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/21/2019 | ND | 2.32 | 116 | 2.00 | 1.18 | |
| Total Xylenes* | <0.150 | 0.150 | 01/21/2019 | ND | 7.15 | 119 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 01/21/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 704 | 16.0 | 01/17/2019 | ND | 400 | 100 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/18/2019 | ND | 198 | 99.1 | 200 | 0.887 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/18/2019 | ND | 193 | 96.5 | 200 | 1.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/18/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

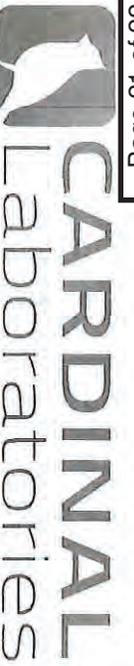
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: RT Hicks Consultants
 Project Manager: Kristin Pope
 Address: 901 Rio Grande Blvd NW, F-142
 City: Albuquerque State: NM Zip: 87104
 Phone #: 505-266-5004 Fax #: _____
 Project #: _____ Project Owner: Murchison
 Project Name: Ogden St. Release State: _____ Zip: _____
 Project Location: Eddy Co. Phone #: _____
 Sampler Name: Kristin Pope Fax #: _____

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | DATE | TIME | REMARKS |
|----------|---------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|---------|------|-----------------------------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | |
| H900157 | | C 1 | 1 | | | X | | | | 1-16-19 | 1050 | BTEX |
| 1 | 35' NE @ 0-4' | C 1 | 1 | | | X | | | | " | 1055 | TPH 8015M (GRO/PRO/PRO ext) |
| 2 | 35' NE @ 5' | C 1 | 1 | | | X | | | | " | 1100 | Chloride |
| 3 | 77' E @ 0-4' | C 1 | 1 | | | X | | | | " | 1104 | |
| 4 | 77' E @ 5' | C 1 | 1 | | | X | | | | " | 1130 | |
| 5 | 230' E @ 0-4' | C 1 | 1 | | | X | | | | " | 1133 | |
| 6 | 230' E @ 5' | C 1 | 1 | | | X | | | | " | 1230 | |
| 7 | 390' E @ 0-4' | C 1 | 1 | | | X | | | | " | 1233 | |
| 8 | 390' E @ 4.3' | C 1 | 1 | | | X | | | | " | | |

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Reinquired By: _____ Date: 1-17-19 Received By: _____
 Time: 11:05
 Relinquished By: Kristin Pope Received By: Juanara Delacruz
 Date: _____ Time: _____

Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: 2.3i #497
 Sample Condition: Cool Intact
 Checked By: AD
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: Email to andrew@rthicksconsult.com, kristin@rthicksconsult.com, Bush & only

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

10x2



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

| Company Name: | | P.O. #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|--------------------------|--------------|-------------|----------|----------|-------------|--|--|------------|--|--|------|------------------------------------|--|-----|--|--|--------|--|--|---------|--|-----------------|------------|--|--|------------|--|--|---------|--|--|
| Project Manager: | | Company: <i>RT Hicks</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: | | Attn: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: | State: | Address: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: | Fax #: | City: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: | | State: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <i>Ogden St. Release</i> | | Zip: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>H990157</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | <i>EC-1 @ 0-4'</i> | <i>C</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | <i>EC-1 @ 4.3'</i> | <i>C</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | <i>EC-2 @ 0-4'</i> | <i>C</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | <i>EC-2 @ 4.3'</i> | <i>C</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | <i>EC-3 @ 0-4'</i> | <i>C</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | <i>EC-3 @ 5'</i> | <i>C</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | <i>EC-4 @ 0-4'</i> | <i>C</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | <i>EC-4 @ 5'</i> | <i>C</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | <i>EC-5 @ 0-4'</i> | <i>C</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | <i>EC-5 @ 5'</i> | <i>C</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>1-17-19</i> | | <i>1342</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>11</i> | | <i>1345</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>11</i> | | <i>1335</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>11</i> | | <i>1330</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>11</i> | | <i>1200</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>11</i> | | <i>1205</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>11</i> | | <i>1116</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>11</i> | | <i>1120</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>11</i> | | <i>1134</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>11</i> | | <i>1135</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <th>MATRIX</th> <th>PRESERV.</th> <th>SAMPLING</th> </tr> <tr> <td>GROUNDWATER</td> <td></td> <td></td> </tr> <tr> <td>WASTEWATER</td> <td></td> <td></td> </tr> <tr> <td>SOIL</td> <td></td> <td></td> </tr> <tr> <td>OIL</td> <td></td> <td></td> </tr> <tr> <td>SLUDGE</td> <td></td> <td></td> </tr> <tr> <td>OTHER :</td> <td></td> <td></td> </tr> <tr> <td>ACID/BASE:</td> <td></td> <td></td> </tr> <tr> <td>ICE / COOL</td> <td></td> <td></td> </tr> <tr> <td>OTHER :</td> <td></td> <td></td> </tr> </table> | | | | MATRIX | PRESERV. | SAMPLING | GROUNDWATER | | | WASTEWATER | | | SOIL | | | OIL | | | SLUDGE | | | OTHER : | | | ACID/BASE: | | | ICE / COOL | | | OTHER : | | |
| MATRIX | PRESERV. | SAMPLING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WASTEWATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLUDGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OTHER : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACID/BASE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICE / COOL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OTHER : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td><i>BTEX</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>TPH 8015m (GRO/PRO/PRO ext)</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>Chloride</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | | | <i>BTEX</i> | | | | | | | | | | <i>TPH 8015m (GRO/PRO/PRO ext)</i> | | | | | | | | | | <i>Chloride</i> | | | | | | | | | |
| <i>BTEX</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>TPH 8015m (GRO/PRO/PRO ext)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Chloride</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Relinquished By: *Phyllis Pope* Date: *1-17-19* Time: *11:05*

Received By: *Jamora Delatorre* Date: *1-17-19* Time: *11:05*

Delivered By: (Circle One) UPS Bus Other: *2:30 #97*

Sample Condition: Cool Intact Yes No Yes No

CHECKED BY: *TS*

REMARKS: *Rush CL only*

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

20x2



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 04, 2019

Kristin Pope
R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX (505) 266-0745

RE: Murchison Ogden Release

OrderNo.: 1901B85

Dear Kristin Pope:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/31/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1901B85

Date Reported: 2/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Lab Order: 1901B85

Project: Murchison Ogden Release

Lab ID: 1901B85-001

Collection Date: 1/30/2019 11:00:00 AM

Client Sample ID: BG @0-2 ft

Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|----------|--------|-----|------|-------|----|---------------|----------|
|----------|--------|-----|------|-------|----|---------------|----------|

EPA METHOD 300.0: ANIONS

Analyst: **MRA**

| | | | | | | | |
|----------|-----|----|--|-------|----|---------------------|-------|
| Chloride | 110 | 30 | | mg/Kg | 20 | 2/1/2019 6:14:57 PM | 42938 |
|----------|-----|----|--|-------|----|---------------------|-------|

Lab ID: 1901B85-002

Collection Date: 1/30/2019 11:03:00 AM

Client Sample ID: BG @2-4 ft

Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|----------|--------|-----|------|-------|----|---------------|----------|
|----------|--------|-----|------|-------|----|---------------|----------|

EPA METHOD 300.0: ANIONS

Analyst: **MRA**

| | | | | | | | |
|----------|----|----|--|-------|----|---------------------|-------|
| Chloride | 61 | 30 | | mg/Kg | 20 | 2/1/2019 6:27:21 PM | 42938 |
|----------|----|----|--|-------|----|---------------------|-------|

Lab ID: 1901B85-003

Collection Date: 1/30/2019 11:08:00 AM

Client Sample ID: BG @ 5ft

Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|----------|--------|-----|------|-------|----|---------------|----------|
|----------|--------|-----|------|-------|----|---------------|----------|

EPA METHOD 300.0: ANIONS

Analyst: **MRA**

| | | | | | | | |
|----------|-----|----|--|-------|----|---------------------|-------|
| Chloride | 120 | 30 | | mg/Kg | 20 | 2/1/2019 6:39:45 PM | 42938 |
|----------|-----|----|--|-------|----|---------------------|-------|

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|--|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901B85

04-Feb-19

Client: R.T. Hicks Consultants, LTD

Project: Murchison Ogden Release

| Sample ID | MB-42938 | SampType: | mblk | TestCode: | EPA Method 300.0: Anions | | | | | |
|------------|-----------------|----------------|-----------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 42938 | RunNo: | 57439 | | | | | |
| Prep Date: | 2/1/2019 | Analysis Date: | 2/1/2019 | SeqNo: | 1921458 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | LCS-42938 | SampType: | lcs | TestCode: | EPA Method 300.0: Anions | | | | | |
|------------|------------------|----------------|-----------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 42938 | RunNo: | 57439 | | | | | |
| Prep Date: | 2/1/2019 | Analysis Date: | 2/1/2019 | SeqNo: | 1921459 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.1 | 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: RT HICKS

Work Order Number: 1901B85

RcptNo: 1

Received By: Erin Melendrez 1/31/2019 11:05:00 AM

Completed By: Victoria Zellar 1/31/2019 2:14:44 PM

Reviewed By: ENM 1/31/19

Handwritten signatures and notes: Victoria Zellar, Labeled by JO 1/31/2019

Chain of Custody

1. Is Chain of Custody complete? Yes [checked] No [] Not Present []

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [checked] No [] NA []

4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []

5. Sample(s) in proper container(s)? Yes [checked] No []

6. Sufficient sample volume for indicated test(s)? Yes [checked] No []

7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []

8. Was preservative added to bottles? Yes [] No [checked] NA []

9. VOA vials have zero headspace? Yes [] No [] No VOA Vials [checked]

10. Were any sample containers received broken? Yes [] No [checked]

11. Does paperwork match bottle labels? Yes [checked] No []

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []

13. Is it clear what analyses were requested? Yes [checked] No []

14. Were all holding times able to be met? Yes [checked] No []

(If no, notify customer for authorization.)

of preserved bottles checked for pH: 1/31/19
(<2 or >12 unless noted)
Adjusted?
Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified:
By Whom:
Regarding:
Client Instructions:
Date:
Via: [] eMail [] Phone [] Fax [] In Person

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.5, Good, Yes, , ,



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 30, 2019

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: OGDEN ST. RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/29/19 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/29/2019 | Sampling Date: | 04/26/2019 |
| Reported: | 04/30/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 5A | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 10' N WALL COMP (EC - 1) (H901522-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 384 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' S WALL COMP (EC - 1) (H901522-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2240 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' E WALL COMP (EC - 1) (H901522-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 528 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' W WALL COMP (EC - 1) (H901522-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3600 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/29/2019 | Sampling Date: | 04/26/2019 |
| Reported: | 04/30/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 5A | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: FLOOR COMP 4' BGS (EC - 1) (H901522-05)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4160 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' N WALL COMP (390' E) (H901522-06)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1580 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 7' S WALL COMP (390' E) (H901522-07)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 9460 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' E WALL COMP (390' E) (H901522-08)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 14900 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' W WALL COMP (390' E) (H901522-09)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10900 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/29/2019 | Sampling Date: | 04/26/2019 |
| Reported: | 04/30/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 5A | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: FLOOR COMP 4' BGS (390' E) (H901522-10)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3400 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

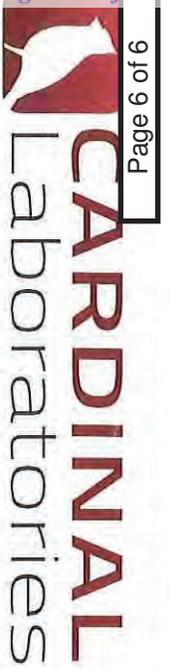
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: RT Hicks Consultants
 Project Manager: Kristin Pope
 Address: 901 Rio Grande Blvd NW, Suite E-142
 City: Albuquerque State: NM Zip: 87104
 Phone #: 505 266-5004 Fax #: 505 266-5004
 Project #: _____ Project Owner: Murchison
 Project Name: Ogden St. 5A Release
 Project Location: Eddy Co.
 Sampler Name: K. Pope
 P.O. #: _____ Company: RT Hicks
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | PRESERV. | | | SAMPLING | | | | |
|----------|---------------------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|------------|---------|----------|--------|------|--|----------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE | TIME | | | |
| 1 | 10'N Wall Comp. (EC-1) | C | 1 | | | X | | | | | X | | | 4-8-19 | 1430 | | Chloride |
| 2 | 10'S Wall Comp. (EC-1) | C | 1 | | | X | | | | | X | | | 1435 | | | |
| 3 | 10'E Wall Comp. (EC-1) | C | 1 | | | X | | | | | X | | | 1445 | | | |
| 4 | 10'N Wall Comp. (EC-1) | C | 1 | | | X | | | | | X | | | 1459 | | | |
| 5 | Educ Comp. 4'bas (EC-1) | C | 1 | | | X | | | | | X | | | 1510 | | | |
| 6 | 10'N Wall Comp. (390'E) | C | 1 | | | X | | | | | X | | | 1530 | | | |
| 7 | 7'S Wall Comp. (390'E) | C | 1 | | | X | | | | | X | | | 1540 | | | |
| 8 | 10'E Wall Comp. (390'E) | C | 1 | | | X | | | | | X | | | 1550 | | | |
| 9 | 10'W Wall Comp. (390'E) | C | 1 | | | X | | | | | X | | | 1555 | | | |
| 10 | Floor Comp. 4'bas (390'E) | C | 1 | | | X | | | | | X | | | 1610 | | | |

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Relinquished By: Martin Pope Date: 4-8-19 Received By: Kristin Pope
 Relinquished By: Kristin Pope Date: 4/27/19 Received By: Andrew Alder
 Time: 11:00
 Sample Condition: Cool Intact
 Checked By: to
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: Email to kristin@rthicksconsult.com, andrew@ " ~ 24-hour turnaround ~



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 30, 2019

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: OGDEN ST. RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/29/19 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/29/2019 | Sampling Date: | 04/26/2019 |
| Reported: | 04/30/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 5A | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 10' N WALL COMP (EC - 1) (H901522-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 384 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' S WALL COMP (EC - 1) (H901522-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2240 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' E WALL COMP (EC - 1) (H901522-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 528 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' W WALL COMP (EC - 1) (H901522-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3600 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/29/2019 | Sampling Date: | 04/26/2019 |
| Reported: | 04/30/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 5A | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: FLOOR COMP 4' BGS (EC - 1) (H901522-05)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4160 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' N WALL COMP (390' E) (H901522-06)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1580 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 7' S WALL COMP (390' E) (H901522-07)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 9460 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' E WALL COMP (390' E) (H901522-08)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 14900 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: 10' W WALL COMP (390' E) (H901522-09)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10900 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/29/2019 | Sampling Date: | 04/26/2019 |
| Reported: | 04/30/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 5A | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: FLOOR COMP 4' BGS (390' E) (H901522-10)

| Chloride, SM4500Cl-B | mg/kg | Analyzed By: AC | | | | | | | |
|----------------------|-------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3400 | 16.0 | 04/30/2019 | ND | 416 | 104 | 400 | 3.92 | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 08, 2019

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: OGDEN ST. RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/03/19 8:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 05/03/2019 | Sampling Date: | 05/02/2019 |
| Reported: | 05/08/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | ** (See Notes) |
| Project Number: | NOT GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 4, 5' N @ 0-2' BGS (H901601-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 384 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

Sample ID: EC - 4, 5' N @ 2-4' BGS (H901601-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

Sample ID: EC - 4, 5' N @ 4.5' BGS (H901601-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

Sample ID: 390' E , 35' N @ 0-2' BGS (H901601-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 05/03/2019 | Sampling Date: | 05/02/2019 |
| Reported: | 05/08/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | ** (See Notes) |
| Project Number: | NOT GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: 390' E , 35' N @ 2-4' BGS (H901601-05)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

Sample ID: 390' E , 35' N @ 4.5' BGS (H901601-06)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

Sample ID: EC - 6 @ 0-2' BGS (H901601-07)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

Sample ID: EC - 6 @ 2-3.5' BGS (H901601-08)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

Sample ID: EC - 6 @ 3.5' BGS (H901601-09)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 13, 2019

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: OGDEN ST. RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/06/19 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 05/06/2019 | Sampling Date: | 05/03/2019 |
| Reported: | 05/13/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 7 @ 0-2' BGS (H901617-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 05/10/2019 | ND | 400 | 100 | 400 | 4.08 | |

Sample ID: EC - 7 @ 2-4' BGS (H901617-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 05/10/2019 | ND | 400 | 100 | 400 | 4.08 | |

Sample ID: EC - 7 @ 4.5' BGS (H901617-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 05/10/2019 | ND | 400 | 100 | 400 | 4.08 | |

Sample ID: EC - 8 @ 0-2' BGS (H901617-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2360 | 16.0 | 05/10/2019 | ND | 400 | 100 | 400 | 4.08 | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 05/06/2019 | Sampling Date: | 05/03/2019 |
| Reported: | 05/13/2019 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: EC - 8 @ 2-4' BGS (H901617-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 928 | 16.0 | 05/10/2019 | ND | 400 | 100 | 400 | 4.08 | |

Sample ID: EC - 8 @ 4.5' BGS (H901617-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 704 | 16.0 | 05/10/2019 | ND | 400 | 100 | 400 | 4.08 | |

Sample ID: 5' S OF EC - 8 @ 0-2' BGS (H901617-07)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 05/10/2019 | ND | 400 | 100 | 400 | 4.08 | |

Sample ID: 5' S OF EC - 8 @ 2-3.5' BGS (H901617-08)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 05/10/2019 | ND | 400 | 100 | 400 | 4.08 | |

Sample ID: 5' S OF EC - 8 @ 3.5' BGS (H901617-09)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 05/10/2019 | ND | 400 | 100 | 400 | 4.08 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

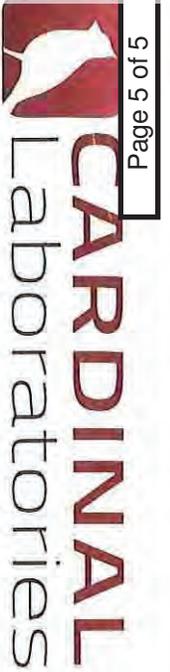
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: *RT Hicks Consultants*
 Project Manager: *Kristin Pope*
 Address: *901 Rio Grande Blvd NW, Suite E-142*
 City: *Albuquerque* State: *NM* Zip: *87104*
 Phone #: *(505) 266-5004* Fax #: _____
 Project #: _____ Project Owner: *Murchison*
 Project Name: *Ogden Release*
 Project Location: *Eddy County*
 Sampler Name: *A. Parker*
 P.O. #: _____ Company: *RT Hicks*
 Attn: *Randy Hicks*
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | DATE | TIME | ANALYSIS |
|----------------|---------------------------|-------------------|--------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------|-------------|-------------------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | |
| <i>HP01617</i> | <i>EC-7 @ 0-2'</i> | | <i>1</i> | <input checked="" type="checkbox"/> | <i>5-3-19</i> | <i>1100</i> | <i>X Chloride</i> |
| | <i>EC-7 @ 2-4'</i> | | <i>1</i> | <input checked="" type="checkbox"/> | <i>1055</i> | | |
| | <i>EC-7 @ 4.5'</i> | | <i>1</i> | <input checked="" type="checkbox"/> | <i>1050</i> | | |
| | <i>EC-8 @ 0-2'</i> | | <i>1</i> | <input checked="" type="checkbox"/> | <i>1118</i> | | |
| | <i>EC-8 @ 2-4'</i> | | <i>1</i> | <input checked="" type="checkbox"/> | <i>1115</i> | | |
| | <i>EC-8 @ 4.5'</i> | | <i>1</i> | <input checked="" type="checkbox"/> | <i>1110</i> | | |
| | <i>5'S of EC-8 @ 0-2'</i> | | <i>1</i> | <input checked="" type="checkbox"/> | <i>1412</i> | | |
| | <i>5'S of EC-8 @ 2-4'</i> | | <i>1</i> | <input checked="" type="checkbox"/> | <i>1410</i> | | |
| | <i>5'S of EC-8 @ 4.5'</i> | | <i>1</i> | <input checked="" type="checkbox"/> | <i>1405</i> | | |

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Relinquished By: *Quellorn* Date: *5-3-19* Received By: *Kristin Pope*
 Relinquished By: _____ Date: _____ Received By: _____
 Delivered By: *Kristin Pope* Date: *5-6-19* Received By: *Jamara Blake*
 Delivered By: *(Circle One)* Date: *10:40* Received By: _____
 Sampler - UPS - Bus - Other: *1.88e #97* Sample Condition: Cool Intact Yes No
 CHECKED BY: *JB* (Initials)

REMARKS: *Email to kristin@rthicksconsult.com, andrew@*

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 16, 2021

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: OGDEN ST. RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/14/21 9:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/14/2021 | Sampling Date: | 03/24/2021 |
| Reported: | 04/16/2021 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: SP 1 @ 0-2' (H210937-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3880 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 1 @ 2-4' (H210937-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2000 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 1 @ 4.5' (H210937-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2600 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 2 @ 0-2' (H210937-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3800 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/14/2021 | Sampling Date: | 03/24/2021 |
| Reported: | 04/16/2021 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: SP 2 @ 2-4' (H210937-05)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4880 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 2 @ 4.5' (H210937-06)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5200 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 3 @ 0-2' (H210937-07)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 3 @ 2-4' (H210937-08)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 3 @ 4.5' (H210937-09)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/14/2021 | Sampling Date: | 03/24/2021 |
| Reported: | 04/16/2021 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: SP 4 @ 0-2' (H210937-10)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8200 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 4 @ 2-4' (H210937-11)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5730 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 4 @ 4.5' (H210937-12)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1760 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 5 @ 0-2' (H210937-13)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 5 @ 2-4' (H210937-14)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 240 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/14/2021 | Sampling Date: | 03/24/2021 |
| Reported: | 04/16/2021 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: SP 5 @ 4.5' (H210937-15)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 6 @ 0-2' (H210937-16)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5360 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 6 @ 2-4' (H210937-17)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3760 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 6 @ 4.5' (H210937-18)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1440 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 7 @ 0-2' (H210937-19)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 464 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/14/2021 | Sampling Date: | 03/24/2021 |
| Reported: | 04/16/2021 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: SP 7 @ 2-4' (H210937-20)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 7 @ 4.5' (H210937-21)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 8 @ 0-2' (H210937-22)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 496 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 8 @ 2-4' (H210937-23)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 8 @ 4.5' (H210937-24)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/14/2021 | Sampling Date: | 03/24/2021 |
| Reported: | 04/16/2021 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: SP 9 @ 0-2' (H210937-25)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10800 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 9 @ 2-4' (H210937-26)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3720 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 9 @ 4.5' (H210937-27)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1520 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 10 @ 0-2' (H210937-28)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: SP 10 @ 2-4' (H210937-29)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 04/14/2021 | Sampling Date: | 03/24/2021 |
| Reported: | 04/16/2021 | Sampling Type: | Soil |
| Project Name: | OGDEN ST. RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO NM | | |

Sample ID: SP 10 @ 4.5' (H210937-30)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 | 16.0 | 04/15/2021 | ND | 400 | 100 | 400 | 0.00 | |

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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: RT Hicks Consultant
 Project Manager: Kristin Pope
 Address: 901 Rio Grande Blvd NW, E-142
 City: Albuquerque State: NM Zip: 87104
 Phone #: (505) 266-5004 Fax #: _____
 Project #: _____ Project Owner: Murchison
 Project Name: Godon State Release State: _____ Zip: _____
 Project Location: Eddy Co. Phone #: _____
 Sampler Name: Kristin Pope Fax #: _____

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | DATE | TIME | REMARKS |
|----------------|------------------------|-------------------|--------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------|-------------|-----------------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | |
| <u>H210937</u> | <u>1 SP1 @ 0-2 ft</u> | <u>G</u> | <u>1</u> | <input checked="" type="checkbox"/> | <u>3-24-21</u> | <u>0940</u> | <u>Chloride</u> |
| | <u>2 SP1 @ 2-4 ft</u> | <u>G</u> | <u>1</u> | <input checked="" type="checkbox"/> | <u>3</u> | <u>0958</u> | |
| | <u>3 SP1 @ 4.5 ft</u> | <u>G</u> | <u>1</u> | <input checked="" type="checkbox"/> | <u>3</u> | <u>1003</u> | |
| | <u>4 SP2 @ 0-2 ft</u> | <u>G</u> | <u>1</u> | <input checked="" type="checkbox"/> | <u>3</u> | <u>1048</u> | |
| | <u>5 SP2 @ 2-4 ft</u> | <u>G</u> | <u>1</u> | <input checked="" type="checkbox"/> | <u>3</u> | <u>1048</u> | |
| | <u>6 SP2 @ 4.5 ft</u> | <u>G</u> | <u>1</u> | <input checked="" type="checkbox"/> | <u>3</u> | <u>1048</u> | |
| | <u>7 SP3 @ 0-2 ft</u> | <u>G</u> | <u>1</u> | <input checked="" type="checkbox"/> | <u>3</u> | <u>1048</u> | |
| | <u>8 SP3 @ 2-4 ft</u> | <u>G</u> | <u>1</u> | <input checked="" type="checkbox"/> | <u>3</u> | <u>1048</u> | |
| | <u>9 SP3 @ 4.5 ft</u> | <u>G</u> | <u>1</u> | <input checked="" type="checkbox"/> | <u>3</u> | <u>1048</u> | |
| | <u>10 SP4 @ 0-2 ft</u> | <u>G</u> | <u>1</u> | <input checked="" type="checkbox"/> | <u>3</u> | <u>1048</u> | |

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Relinquished By: Kristin Pope Date: 4/14/21
 Received By: Yvonne Blalock Date: 4/14/21
 Time: _____

Delivered By: (Circle One) UPS 3.36 #113
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Intact
 Checked By: Yvonne Blalock

REMARKS: email to kristin@rthicksconsult.com

Please Fax within 30 days to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: *RT Hicks Consultants*
 Project Manager: *Kristin Pope*
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: *Murchison*
 Project Name: *Ogden State Release*
 Project Location: *Eddy Co.*
 Sampler Name: *Kristin Pope*
 P.O. #: _____ Company: *RT Hicks*
 Attn: *Randy Hicks*
 Address: _____ City: _____
 State: _____ Zip: _____
 Phone #: _____ Fax #: _____

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | DATE | TIME | ANALYSIS | |
|----------------|-------------------------|-------------------|--------------|-------------|------------|----------|----------|----------|----------|------------|----------|----------|----------|-----------------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | | | | |
| <i>H200937</i> | | | | | | | | | | | | | | |
| | <i>11 SP 4 @ 2-4 FT</i> | <i>G</i> | <i>1</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>Chloride</i> |
| | <i>12 SP 4 @ 4.5 FT</i> | <i>G</i> | <i>1</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| | <i>13 SP 5 @ 0-2 FT</i> | <i>G</i> | <i>1</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| | <i>14 SP 5 @ 2-4 FT</i> | <i>G</i> | <i>1</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| | <i>15 SP 5 @ 4.5 FT</i> | <i>G</i> | <i>1</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| | <i>16 SP 6 @ 0-2 FT</i> | <i>G</i> | <i>1</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| | <i>17 SP 6 @ 2-4 FT</i> | <i>G</i> | <i>1</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| | <i>18 SP 6 @ 4.5 FT</i> | <i>G</i> | <i>1</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| | <i>19 SP 7 @ 0-2 FT</i> | <i>G</i> | <i>1</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| | <i>20 SP 7 @ 2-4 FT</i> | <i>G</i> | <i>1</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | |

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Relinquished By: *Kristin Pope* Date: *4-14-21* Time: *9:05*
 Received By: *Pyrona Black*

Delivered By: (Circle One) UPS Bus Other: *3.3e #113*

Sample Condition: Cool Intact Yes No Yes No No

CHECKED BY: *TP*

REMARKS: *Email to kristin@rthicksconsult.com*



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: *RT Hicks Consultants* P.O. #: _____
 Project Manager: *Kristin Pope* Company: _____
 Address: _____ Attn: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: *Murchison* City: _____
 Project Name: *Yodin State Release* State: _____ Zip: _____
 Project Location: _____ Phone #: _____
 Sampler Name: *Kristin Pope* Fax #: _____
 FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP | # CONTAINERS | MATRIX | | | | | | DATE | TIME | REMARKS |
|----------------|--------------------------|------------------|--------------|-------------|------------|------|-----|--------|---------|----------------|-----------------|---------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | |
| <i>H210937</i> | <i>21 SP 9 @ 4.5 ft</i> | | <i>1</i> | | | | | | | <i>3-24-21</i> | <i>Chloride</i> | |
| | <i>22 SP 8 @ 0-2 ft</i> | | <i>1</i> | | | | | | | | | |
| | <i>23 SP 8 @ 2-4 ft</i> | | <i>1</i> | | | | | | | | | |
| | <i>24 SP 8 @ 4.5 ft</i> | | <i>1</i> | | | | | | | | | |
| | <i>25 SP 9 @ 0-2 ft</i> | | <i>1</i> | | | | | | | | | |
| | <i>26 SP 9 @ 2-4 ft</i> | | <i>1</i> | | | | | | | | | |
| | <i>27 SP 9 @ 4.5 ft</i> | | <i>1</i> | | | | | | | | | |
| | <i>28 SP 10 @ 0-2 ft</i> | | <i>1</i> | | | | | | | | | |
| | <i>29 SP 10 @ 2-4 ft</i> | | <i>1</i> | | | | | | | | | |
| | <i>30 SP 10 @ 4.5 ft</i> | | <i>1</i> | | | | | | | | | |

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Relinquished By: *Kristin Pope* Date: *4-14-21* Received By: *Jamara Walker* Date: *4-9-2025*

Delivered By: (Circle One) *UPS* *3:30 #113* Sample Condition: Intact Cool Yes No Yes No

REMARKS: *Email to kristin@rthicksconsult.com*



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 20, 2023

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ODGEN ST 5A RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/16/23 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|-------------------------|---------------------|----------------|
| Received: | 06/16/2023 | Sampling Date: | 06/13/2023 |
| Reported: | 06/20/2023 | Sampling Type: | Soil |
| Project Name: | ODGEN ST 5A RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY COUNTY | | |

Sample ID: SP - 1 @ 0-2 FT (H233139-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: SP - 1 @ 2-4 FT (H233139-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 864 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: SP - 1 @ 4.5 FT (H233139-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1060 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: SP - 2 @ 0-2 FT (H233139-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1720 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | QM-07 |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|-------------------------|---------------------|----------------|
| Received: | 06/16/2023 | Sampling Date: | 06/13/2023 |
| Reported: | 06/20/2023 | Sampling Type: | Soil |
| Project Name: | ODGEN ST 5A RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY COUNTY | | |

Sample ID: SP - 2 @ 2-4 FT (H233139-05)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 2 @ 4.5 FT (H233139-06)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 368 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 2B @ 0-2 FT (H233139-07)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4560 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 2B @ 2-4 FT (H233139-08)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2480 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 2B @ 4.5 FT (H233139-09)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2040 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|-------------------------|---------------------|----------------|
| Received: | 06/16/2023 | Sampling Date: | 06/13/2023 |
| Reported: | 06/20/2023 | Sampling Type: | Soil |
| Project Name: | ODGEN ST 5A RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY COUNTY | | |

Sample ID: SP - 4 @ 0-2 FT (H233139-10)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8640 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 4 @ 2-4 FT (H233139-11)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 11300 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 4 @ 4.5 FT (H233139-12)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3920 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 6 @ 0-2 FT (H233139-13)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4400 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 6 @ 2-4 FT (H233139-14)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1060 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|-------------------------|---------------------|----------------|
| Received: | 06/16/2023 | Sampling Date: | 06/13/2023 |
| Reported: | 06/20/2023 | Sampling Type: | Soil |
| Project Name: | ODGEN ST 5A RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY COUNTY | | |

Sample ID: SP - 6 @ 4.5 FT (H233139-15)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 336 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 6B @ 0-2 FT (H233139-16)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6880 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 6B @ 2-4 FT (H233139-17)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4400 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 6B @ 4.5 FT (H233139-18)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5040 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 9 @ 0-2 FT (H233139-19)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10800 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|-------------------------|---------------------|----------------|
| Received: | 06/16/2023 | Sampling Date: | 06/13/2023 |
| Reported: | 06/20/2023 | Sampling Type: | Soil |
| Project Name: | ODGEN ST 5A RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY COUNTY | | |

Sample ID: SP - 9 @ 2-4 FT (H233139-20)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7040 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 9 @ 4.5 FT (H233139-21)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2800 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 9B @ 0-2 FT (H233139-22)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1070 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 9B @ 2-4 FT (H233139-23)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 704 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP - 9B @ 4.5 FT (H233139-24)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 06/20/2023 | ND | 400 | 100 | 400 | 3.92 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|-------------------------|---------------------|----------------|
| Received: | 06/16/2023 | Sampling Date: | 06/13/2023 |
| Reported: | 06/20/2023 | Sampling Type: | Soil |
| Project Name: | ODGEN ST 5A RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY COUNTY | | |

Sample ID: SP - 9C @ 0-2 FT (H233139-25)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10100 | 16.0 | 06/20/2023 | ND | 400 | 100 | 400 | 3.92 | |

Sample ID: SP - 9C @ 2-4 FT (H233139-26)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 848 | 16.0 | 06/20/2023 | ND | 400 | 100 | 400 | 3.92 | |

Sample ID: SP - 9C @ 4.5 FT (H233139-27)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2120 | 16.0 | 06/20/2023 | ND | 400 | 100 | 400 | 3.92 | |

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: R. T. Hicks Consultants
 Project Manager: Kristin Pope
 Address: 901 Rio Grande Blvd NW, Suite F-142
 City: Albuquerque State: NM Zip: 87104
 Phone #: 505-266-5004 Fax #: Project Owner: Murchison
 Project Name: Ogden St 5A release
 Project Location: Eddy County
 Sampler Name: Kristin Pope
 P.O. #: Company: R. T. Hicks
 Attn: Randy
 Address:
 City: State: Zip:
 Phone #: Fax #:

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | DATE | TIME | ANALYSIS |
|----------|------------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|---------|------|----------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | | | |
| H233139 | SP-1 @ 0-2 ft | G | 1 | | | | | | | | 6.13.23 | 0850 | CHLORIDE |
| | 2 SP-1 @ 2-4 ft | G | 1 | | | | | | | | | 0855 | |
| | 3 SP-1 @ 4.5 ft | G | 1 | | | | | | | | | 0900 | |
| | 4 SP-2 @ 0-2 ft | G | 1 | | | | | | | | | 0910 | |
| | 5 SP-2 @ 2-4 ft | G | 1 | | | | | | | | | 0912 | |
| | 6 SP-2 @ 4.5 ft | G | 1 | | | | | | | | | 0915 | |
| | 7 SP-2 @ 0-2 ft | G | 1 | | | | | | | | | 0925 | |
| | 8 SP-2 @ 2-4 ft | G | 1 | | | | | | | | | 0927 | |
| | 9 SP-2 @ 4.5 ft | G | 1 | | | | | | | | | 0930 | |
| | 10 SP-2 @ 0-2 ft | G | 1 | | | | | | | | | 0954 | |

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Relinquished By: Kristin Pope
 Date: 6-14-23
 Time: 1450
 Received By: [Signature]
 Date: [Signature]
 Time: [Signature]

Delivered By: (Circle One) UPS Bus Other: _____
 Observed Temp.: °C 5.8
 Corrected Temp.: °C 5.2
 Sample Condition: Intact Cool Yes No
 CHECKED BY: [Signature]
 Turnaround Time: _____
 Standard Rush Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C
 Thermometer ID #413
 Corrosion Factor 0.5°C
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address:
 kristin@rthickconsult.com, R@rthickconsult.com, cottrell@jdmil.com
 REMARKS:



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

| | | | |
|---|---------------|-------------------------|----------|
| Company Name: R. T. Hicks Consultants | | P.O. #: | |
| Project Manager: Kristin Pope | | Company: R. T. Hicks | |
| Address: 901 Rio Grande Blvd NW, Suite E-142 | | Attn: Randy | |
| City: Albuquerque | | Address: | |
| Phone #: 505-266-5004 | | City: | |
| Project #: _____ | | State: _____ Zip: _____ | |
| Project Name: Ogden St 5A release | | Phone #: | |
| Project Location: Eddy County | | Fax #: | |
| Sampler Name: Kristin Pope | | DATE | |
| FOR LAB USE ONLY | | TIME | |
| Lab I.D. HT33139 | Sample I.D. | (G)RAB OR (C)OMP | CHLORIDE |
| | 11 SP-4 @ 2-4 | # CONTAINERS | |
| | 12 SP-4 @ 4.5 | GROUNDWATER | |
| | 13 SP-6 @ 0-2 | WASTEWATER | |
| | 14 SP-6 @ 2-4 | SOIL | |
| | 15 SP-6 @ 4.5 | OIL | |
| | 16 SP-6 @ 4.5 | SLUDGE | |
| | 17 SP-6 @ 2-4 | OTHER : | |
| | 18 SP-6 @ 4.5 | ACID/BASE: | |
| | 19 SP-9 @ 0-2 | ICE / COOL | |
| 20 SP-9 @ 2-4 | OTHER : | | |
| PLEASE NOTE: Liability and Damages: Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal. In addition, whether such claim is based on any of the above stated reasons or otherwise. | | DATE | |
| Relinquished By: <i>Kristin Pope</i> | | TIME | |
| Date: 6-16-23 | | DATE | |
| Time: 1450 | | TIME | |
| Received By: <i>Kristin Pope</i> | | DATE | |
| Date: _____ | | TIME | |
| Time: _____ | | DATE | |
| Delivered By: (Circle One) _____ | | TIME | |
| Sampler - UPS - Bus - Other: _____ | | DATE | |
| Observed Temp. °C: 5.8 | | TIME | |
| Corrected Temp. °C: 5.2 | | DATE | |
| Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | TIME | |
| Checked By: <i>AP</i> | | DATE | |
| Turnaround Time: _____ | | TIME | |
| Standard: <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition | | DATE | |
| Thermometer ID #113 <input type="checkbox"/> Rush <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | | TIME | |
| Corrosion Factor: 0.5°C <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C: _____ | | DATE | |
| Remarks: _____ | | TIME | |
| Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: | | DATE | |
| All Results are emailed. Please provide Email address: _____ | | TIME | |
| Kristin@rthicksconsult.com, R@rthicksconsult.com, ccottrell@dmii.com | | DATE | |

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | |
|--|--|----------------------|--|
| Company Name: R. T. Hicks Consultants | | BILL TO | |
| Project Manager: Kristin Pope | | P.O. #: | |
| Address: 901 Rio Grande Blvd NW, Suite F-142 | | Company: R. T. Hicks | |
| City: Albuquerque | | Attn: Randy | |
| Phone #: 505-266-5004 | | Address: | |
| Fax #: _____ | | City: | |
| Project #: _____ | | State: ZIP: | |
| Project Name: Odgen St. 5A release | | Phone #: | |
| Project Location: Eddy County | | Fax #: | |
| Sampler Name: Kristin Pope | | PRESERV/ | |
| FOR LAB USE ONLY | | SAMPLING | |

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | DATE | TIME | ANALYSIS REQUEST |
|----------|------------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|---------|-------|------------------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | |
| H233139 | 21 SP-9 @ 4.5 ft | G | 1 | | | | | | | 6:13:23 | 11:19 | Chloride |
| | 22 SP-9 @ 0-2 ft | G | 1 | | | | | | | | 11:28 | |
| | 23 SP-9 @ 2-4 ft | G | 1 | | | | | | | | 11:30 | |
| | 24 SP-9 @ 4.5 ft | G | 1 | | | | | | | | 11:33 | |
| | 25 SP-9 @ 0-2 ft | G | 1 | | | | | | | | 11:40 | |
| | 26 SP-9 @ 2-4 ft | G | 1 | | | | | | | | 11:43 | |
| | 27 SP-9 @ 4.5 ft | G | 1 | | | | | | | | 11:45 | |

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Relinquished By: Kristin Pope Date: 6-16-23 Received By: Shirley D. White Date: 6-16-23

Relinquished By: _____ Date: _____ Received By: _____ Date: _____

Time: _____

Delivered By: (Circle One) UPS Bus Other: _____

Observed Temp. °C: 5.8 Sample Condition: Cool Intact Yes No

Corrected Temp. °C: 5.2 CHECKED BY: SP

Turnaround Time: _____ Standard Rush: Bacteria (only) Sample Condition: Cool Intact Yes No

Thermometer ID #113 Corrosion Factor .05°C No No

Remarks: _____

Vertical Result: Yes No Add'l Phone #: _____

All Results are emailed. Please provide Email address: _____

REMARKS: _____

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 20, 2023

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ODGEN ST 5A RELEASE CONFIRMATION

Enclosed are the results of analyses for samples received by the laboratory on 06/16/23 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|----------------------------------|---------------------|----------------|
| Received: | 06/16/2023 | Sampling Date: | 06/13/2023 |
| Reported: | 06/20/2023 | Sampling Type: | Soil |
| Project Name: | ODGEN ST 5A RELEASE CONFIRMATION | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY COUNTY | | |

Sample ID: SP - 3 @ 0-2 FT (H233137-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2800 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: SP - 3 @ 2-4 FT (H233137-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2960 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: SP - 3 @ 4.5 FT (H233137-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1600 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 7.41 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | |
|--|--|-------------------------------|--|-----------------------------------|--|------------------|--|
| Company Name: R. T. Hicks Consultants | | BILL TO | | P.O. #: | | ANALYSIS REQUEST | |
| Project Manager: Kristin Pope | | Company: R. T. Hicks | | Attn: Randy | | | |
| Address: 901 Rio Grande Blvd NW, Suite E-142 | | Address: | | State: NM | | Zip: 87104 | |
| City: Albuquerque | | City: | | State: | | Zip: | |
| Phone #: 505-266-5004 | | Fax #: | | Project Owner: Murchison | | | |
| Project Name: Odgen St SA release | | Project Location: Eddy County | | Project Name: <u>confirmation</u> | | | |
| Sampler Name: Kristin Pope | | FOR LAB USE ONLY | | PRESERV | | SAMPLING | |
| Lab I.D. | | Sample I.D. | | MATRIX | | | |
| H233137 | | 1 SP-3 @ 0-2 ft | | (G)RAB OR (C)OMP. | | | |
| | | 2 SP-3 @ 2-4 ft | | # CONTAINERS | | | |
| | | 3 SP-3 @ 4.5 ft | | GROUNDWATER | | | |
| | | | | WASTEWATER | | | |
| | | | | SOIL | | | |
| | | | | OIL | | | |
| | | | | SLUDGE | | | |
| | | | | OTHER : | | | |
| | | | | ACID/BASE: | | | |
| | | | | ICE / COOL | | | |
| | | | | OTHER : | | | |
| | | | | DATE | | TIME | |
| | | | | 6.13.23 | | 0938 | |
| | | | | " | | 0940 | |
| | | | | " | | 0943 | |
| | | | | | | Chloride | |

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Kristin Pope Date: 4/5/24 Received By: Yamara Keene Date: 4/5/24

Delivered By: (Circle One) Observed Temp. °C 5.8 Sample Condition Cool Intact CHECKED BY: (Initials) YK

Sampler - UPS - Bus - Other: Corrected Temp. °C 5.2 Yes No Yes No

Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes No Yes No Corrected Temp. °C

Thermometer ID #113 C Corrosion Factor 0.5°C

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 REMARKS: _____

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 20, 2023

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ODGEN ST 5A RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/16/23 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

| | | | |
|-------------------|-------------------------|---------------------|----------------|
| Received: | 06/16/2023 | Sampling Date: | 06/13/2023 |
| Reported: | 06/20/2023 | Sampling Type: | Soil |
| Project Name: | ODGEN ST 5A RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY COUNTY | | |

Sample ID: 230 ' E @ 0-2 FT (H233138-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: 230 ' E @ 2-4 FT (H233138-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: 230 ' E @ 4.5 FT (H233138-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 06/19/2023 | ND | 416 | 104 | 400 | 7.41 | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Attachment V
Boone Archaeological Consultants, LLC Archaeological Survey
CEHMM SSPS Survey



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number: 154352

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments: Proposed remediation of the Ogden 5A Release. Archaeological survey was negative for cultural resources. See NMCRIS Activity No. 154352 Report for complete details of the survey.

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant: Boone Archaeological Resource Consultants LLC, BARC 10-23-59

Project Proponent (Applicant): Murchison Oil and Gas, LLC

Project Title/Description: A Class III Archaeological Survey for the Murchison Oil and Gas, LLC Ogden 5A Release, Eddy County, New Mexico

Project Location:

County(ies): Eddy County, NM

PLSS/Section/Township/Range): T25S R26E S2

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



CEHMM
Conservation & Environmental Services
505 North Main Street | Carlsbad, New Mexico 88220-5875
phone: (575)885-3700 | email: info@cehmm.org

MURCHISON OIL AND GAS, LLC.

OGDEN 5A RELEASE

SPECIAL STATUS PLANT SPECIES SURVEY REPORT

11/27/2023

TABLE OF CONTENTS

Summary.....1
Figure 1: SSPS Overview within the proposed project area.....2

SUMMARY

CEHMM conducted a Special Status Plant Species (SSPS) survey for Scheer's beehive cactus (*Coryphantha robustispina* ssp. *scheeri*), Gypsum milkvetch (*Astragalus gypsodes*) and gypsum wild buckwheat (*Eriogonum gypsophilum*) for the Murchison Oil and Gas, LLC Ogden 5A Release spill clean-up project (Project) on November 16, 2023. Per New Mexico State Land Office (SLO) regulations parallel transects for the SSPS survey spaced at 20 meters apart were walked, encompassing a 100-meter buffer around the Project in potential habitat for Scheer's beehive cactus and Gypsum milkvetch on SLO land

Field Notes from the survey indicate that no individuals of the Scheer's beehive cactus, Gypsum milkvetch or Gypsum wild buckwheat were observed within the 100-meter buffer of the Project.

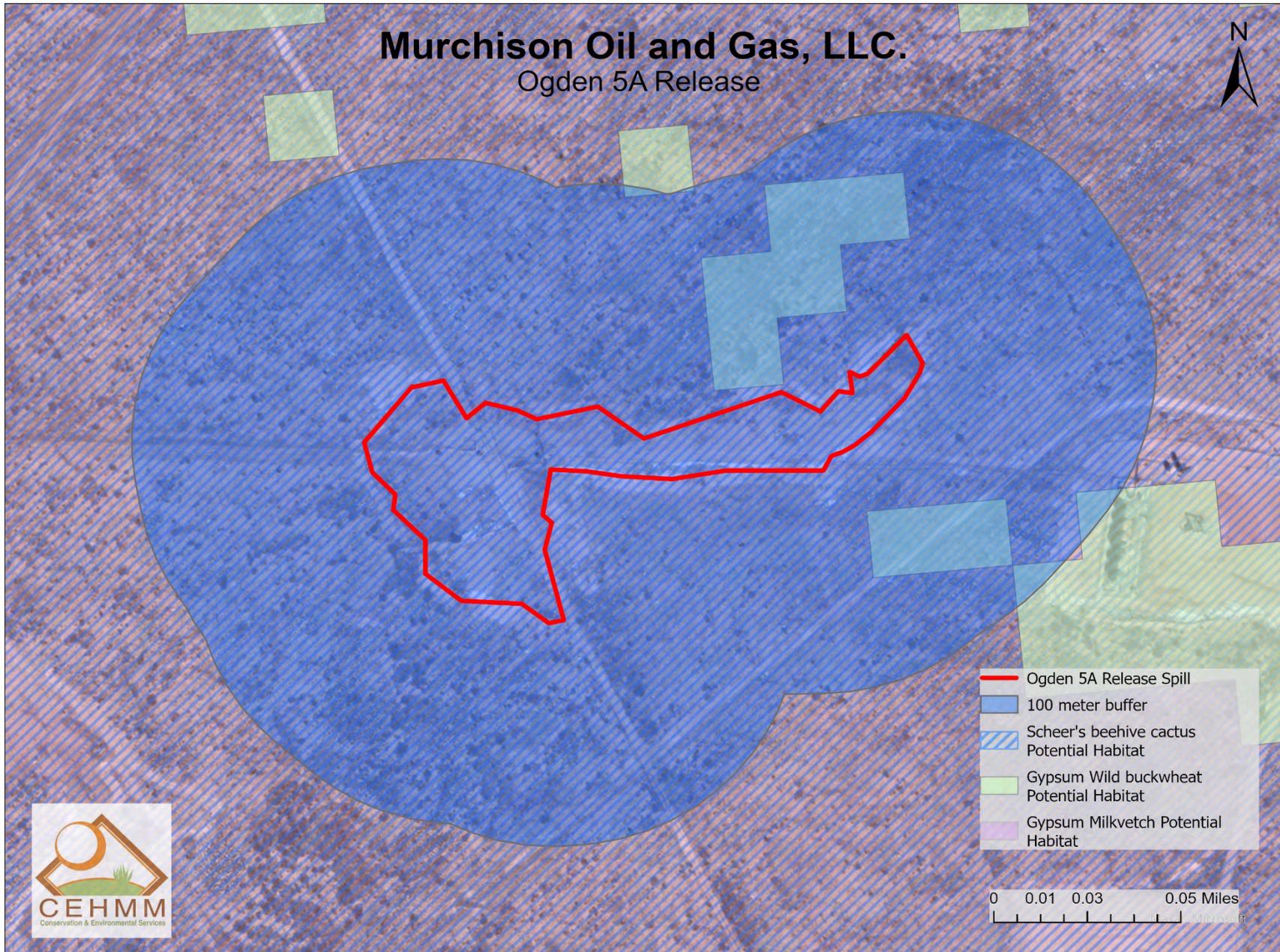


Figure 1: SSPS Overview within the proposed project area.

Attachment VI
NMSLO Loamy Sites Seed Mixture

NMSLO Seed Mix**Loamy (L)****LOAMY (L) SITES SEED MIXTURE:**

| COMMON NAME | VARIETY | APPLICATION RATE (PLS/Acre) | DRILL BOX |
|---------------------------------|--------------------|-----------------------------|-----------|
| Grasses: | | | |
| Black grama | VNS, Southern | 1.0 | D |
| Blue grama | Lovington | 1.0 | D |
| Sideoats grama | Vaughn, El Reno | 4.0 | F |
| Sand dropseed | VNS, Southern | 2.0 | S |
| Alkali sacaton | VNS, Southern | 1.0 | |
| Little bluestem | Cimarron, Pastura | 1.5 | F |
| Forbs: | | | |
| Firewheel (<i>Gaillardia</i>) | VNS, Southern | 1.0 | D |
| Shrubs: | | | |
| Fourwing saltbush | Marana, Santa Rita | 1.0 | D |
| Common winterfat | VNS, Southern | 0.5 | F |
| Total PLS/acre | | 18.0 | |

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



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 1625 N. French Dr., Hobbs, NM 88240
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District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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Energy, Minerals and Natural Resources
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QUESTIONS

Action 330379

QUESTIONS

| | |
|---|--|
| Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024 | OGRID: 15363 |
| | Action Number: 330379 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| | |
|----------------------|--|
| Prerequisites | |
| Incident ID (n#) | nAB1902343484 |
| Incident Name | NAB1902343484 OGDEN STATE 5A RELEASE @ 0 |
| Incident Type | Produced Water Release |
| Incident Status | Remediation Plan Received |
| Incident Facility | [fAB1902343284] OGDEN STATE 5A RELEASE |

| | |
|---|------------------------|
| Location of Release Source | |
| <i>Please answer all the questions in this group.</i> | |
| Site Name | OGDEN STATE 5A RELEASE |
| Date Release Discovered | 05/26/2017 |
| Surface Owner | State |

| | |
|--|------------------------|
| Incident Details | |
| <i>Please answer all the questions in this group.</i> | |
| Incident Type | Produced Water Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| | |
|---|--|
| Nature and Volume of Release | |
| <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i> | |
| Crude Oil Released (bbls) Details | Not answered. |
| Produced Water Released (bbls) Details | Cause: Equipment Failure Flow Line - Production Produced Water Released: 1,399 BBL Recovered: 0 BBL Lost: 1,399 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

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 1000 Rio Brazos Rd., Aztec, NM 87410
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District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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QUESTIONS, Page 2

Action 330379

QUESTIONS (continued)

| | |
|---|--|
| Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024 | OGRID: 15363 |
| | Action Number: 330379 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |
| | |

QUESTIONS

| | |
|--|--|
| Nature and Volume of Release (continued) | |
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | Yes |
| Reasons why this would be considered a submission for a notification of a major release | From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. |
| <i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i> | |

Initial Response

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

| | |
|--|----------------------|
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | <i>Not answered.</i> |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

| | |
|--|---|
| I hereby agree and sign off to the above statement | Name: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 04/09/2024 |
|--|---|

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

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811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

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

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QUESTIONS (continued)

| | |
|---|--|
| Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024 | OGRID: 15363 |
| | Action Number: 330379 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs) | Between 100 and 500 (ft.) |
| What method was used to determine the depth to ground water | Attached Document |
| Did this release impact groundwater or surface water | No |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas: | |
| A continuously flowing watercourse or any other significant watercourse | Between 1000 (ft.) and ½ (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1 and 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Between 1 and 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 1 and 5 (mi.) |
| Any other fresh water well or spring | Between 1 and 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between 1 and 5 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Greater than 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | High |
| A 100-year floodplain | Between 1 and 5 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | Yes |

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| | |
|--|-----|
| Requesting a remediation plan approval with this submission | Yes |
| <i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i> | |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

| | |
|---|-------|
| Chloride (EPA 300.0 or SM4500 Cl B) | 47000 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 0 |
| GRO+DRO (EPA SW-846 Method 8015M) | 0 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0 |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

| | |
|---|------------|
| On what estimated date will the remediation commence | 04/17/2024 |
| On what date will (or did) the final sampling or liner inspection occur | 05/17/2024 |
| On what date will (or was) the remediation complete(d) | 06/16/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed | 0 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 0 |
| What is the estimated surface area (in square feet) that will be remediated | 29600 |
| What is the estimated volume (in cubic yards) that will be remediated | 5500 |

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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 1000 Rio Brazos Rd., Aztec, NM 87410
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 1220 S. St Francis Dr., Santa Fe, NM 87505
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QUESTIONS, Page 4

Action 330379

QUESTIONS (continued)

| | |
|---|---|
| Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024 | OGRID: 15363 |
| | Action Number: 330379 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

| | |
|---|--|
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for off-site disposal | R360 Artesia LLC LANDFARM [FEEM0112340644] |
| OR which OCD approved well (API) will be used for off-site disposal | Not answered. |
| OR is the off-site disposal site, to be used, out-of-state | Not answered. |
| OR is the off-site disposal site, to be used, an NMED facility | Not answered. |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) | Not answered. |
| (In Situ) Soil Vapor Extraction | Not answered. |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | Not answered. |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | Not answered. |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | Not answered. |
| Ground Water Abatement pursuant to 19.15.30 NMAC | Not answered. |
| OTHER (Non-listed remedial process) | Not answered. |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

| | |
|--|---|
| I hereby agree and sign off to the above statement | Name: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 04/09/2024 |
|--|---|

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
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QUESTIONS, Page 5

Action 330379

QUESTIONS (continued)

| | |
|---|--|
| Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024 | OGRID: 15363 |
| | Action Number: 330379 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| | |
|---|----|
| Deferral Requests Only | |
| <i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i> | |
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |

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 1625 N. French Dr., Hobbs, NM 88240
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 1000 Rio Brazos Rd., Aztec, NM 87410
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 1220 S. St Francis Dr., Santa Fe, NM 87505
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QUESTIONS, Page 6

Action 330379

QUESTIONS (continued)

| | |
|---|--|
| Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024 | OGRID: 15363 |
| | Action Number: 330379 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| | |
|--|----------------|
| Sampling Event Information | |
| Last sampling notification (C-141N) recorded | {Unavailable.} |

| | |
|---|----|
| Remediation Closure Request | |
| <i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i> | |
| Requesting a remediation closure approval with this submission | No |

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CONDITIONS

Action 330379

CONDITIONS

| | |
|---|--|
| Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024 | OGRID: 15363 |
| | Action Number: 330379 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|---|----------------|
| bhall | OCD approves horizontal and vertical delineation will be completed through excavation and confirmation sampling pursuant to 19.15.29.12 NMAC. Delineation sampling being performed prior to excavation activities will not be accepted for remediation closure. Remediation and delineation will need to meet the most stringent remediation closure criteria found on Table I of 19.15.29 NMAC. | 4/15/2024 |
| bhall | Due to limited delineation information the excavation will need to be extended past five feet below ground surface contingent upon the results of the remediation confirmation samples. Remediation confirmation samples must meet the most stringent remediation closure criteria found on Table I of 19.15.29 NMAC. | 4/15/2024 |
| bhall | OCD approves the temporary stockpiling of contaminated soil on top of plastic with stormwater run-on/off protection (i.e. berms, wattles, etc.) properly installed around the contaminated soil stockpile to prevent transportation of contaminated soils due to precipitation events. If the plastic is found to be damaged during remediation activities, 5-point composite samples, representative of no more than 200 square feet will need to be collected from beneath the plastic and analyzed for TPH, BTEX, and chloride to ensure no contaminated soil is present at the surface. Photos of the stockpile with the BMPs will need to be included in the closure report. The Bills of Lading and photos of the removal of the stockpile and native surface underneath the stockpile will also need to be included in the remediation closure report. | 4/15/2024 |
| bhall | The site will need to be reclaimed at time of remediation as it is in an area considered not reasonably needed for production or subsequent drilling activities. The reclamation can be submitted with OR separately from the Remediation Closure Report. | 4/15/2024 |
| bhall | The reclamation report will need to include the executive summary of the reclamation activities; scaled site map including sampling locations; analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; at least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. | 4/15/2024 |
| bhall | On the C-141, zeros were entered for the questions What is the estimated surface area (in square feet) that will be reclaimed and What is the estimated volume (in cubic yards) that will be reclaimed, this is incorrect as the release will need to be reclaimed at the time of remediation as it is in an area considered not reasonably needed for production or subsequent drilling activities. When the Remediation Closure Report is submitted the correct square footage and cubic yardage for the reclaimed areas will need to be provided on the C-141 and in the associated report. | 4/15/2024 |
| bhall | Pursuant to 19.15.29.12 D.(1)(a) NMAC, ensure the C-141N (Notification of Sampling) application is completed on the OCD Permitting website at least 2 business days prior to collecting remediation confirmation samples. | 4/15/2024 |
| bhall | Approval of this C-141 remediation plan is only applicable for incident nAB1902343484 and is not applicable to any other incident number. | 4/15/2024 |
| bhall | The approval of this 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 | 4/15/2024 |
| bhall | A complete remediation closure report and/or reclamation report pursuant to 19.15.29 NMAC will need to be submitted by 7/15/2024. Failure to submit a complete remediation plan and/or remediation closure report by 7/15/2024 is subject to compliance and enforcement penalties pursuant to 19.15.5 NMAC. | 4/15/2024 |