BW-036

ANNUAL REPORT

2019

ADDENDUM TO 2019 ANNUAL CLASS III WELL REPORT -ANNUAL CERTIFICATION-

H.R.C. INC.

Schubert Farms Well # 1 (BW-036)

API 30-025-37548

ANNUAL CERTIFICATION

H.R.C. Inc. certifies that continued salt solution mining of the Schubert Farms Well #1 (BW-36) will not cause cavern collapse, surface subsidence, property damage, or otherwise threaten public health and the environment, based on geologic and engineering data.

| | 1. 11/ | | 11 |
|-------------|------------------|-----------------------|--------|
| Signature _ | Giez W. Elidert | for H.R.C., Inc. Date | 5/5/22 |
| Name | GARY M. SCHUBERT | Title Pees | |

HRC. INC.

P. O. Box 5102 Hobbs, NM 88241-5102 Phone # (575) 393-6662 Fax # (575) 393-6662

January 21, 2020

Jim Griswold Senior Hydrologist ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Ref: 2019 Annual Report Schubert Farms No. 1 (API # 30-025-37548)

Dear Mr. Griswold,

Enclosed please flud the monthly freshwater injection and brine production numbers for the Hobbs facility for the year of 2019. Included also are Cardinal Laboratories' results of analyses for samples for the month of June 2019 and December, 2019 and the production amounts for January 2019 through December 2019 for your reference.

Thank you,

Sincerely,

Gary M. Schubert

GMS/br

Enclosure

ANNUAL CLASS III WELL REPORT H.R.C., INC.

YEARLY REPORT (BW-036)

API 30-025-37548

February 27, 2020

DAVID ALVARADO

(ACTING AGENT FOR H.R.C., INC.)

20.6.2.3107 NMAC MONITORING, REPORTING, AND OTHER REQUIERMENTS

SUMMARY OF CLASS III OPERATIONS 2019

Schubert Farms Well # 1 operations in 2019 recorded no leaks had occurred during the year. The fresh water systems well insulated protected the fresh water from freezing. All meters and valves were well protected and are in good working conditions.

H.R.C., Inc. Preventive maintenance scheduled plan is to replace any connections or valves that could be showing wear. This will continue as a safe operating condition and it will continue in 2020 as needed. Connections are changed out when the first sign of salt is seen behind the threaded end.

During 2019 the transfer pump that transports brine to the sales tanks had the mechanical seals replaced in the month of November this is a common task due to the abrasion of the 9.98 PPG brine. In replacing the seals fresh water was used to clean out the lines and valves were shut in allowing the connecting unions to be broken to prevent any impact to the ground within the pump shop where the pump resides.

Daily inspections of all lines and connections are visually looked at during a walk around of the facility tanks. All lines are each walked and visually inspected that lead to the pump house. Readings on pressure gauges are recorded with the reading of the brine output meter and the injection of fresh water are recorded on the day to month logs. Safety shut off mechanisms are tested to insure if high or low pressures were to occur all systems would shut down.

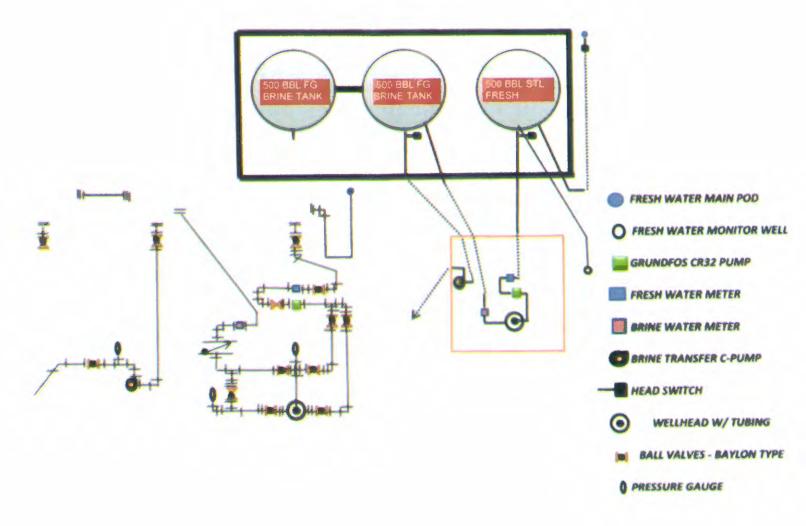
A total of 263,276 Bbl. of brine was extracted and weighed at an average of 9.89 PPG or a SG of 1.1851 in 2019. Production of brine slowed down due to demand of brine during the months of July, August and September attributed to the slight slowdown of the oil Industry. Brine sales rebounded in October and held steady at a means of 25,074 bbl. per month for the rest of 2019. Compared with the 306,806 bbl. produced in 2018.

H.R.C., Inc. Schubert Farms #1 is an asset and continues to assist in the needs of the Industry.

Please find below a schematic of the facility operations of equipment on the BW-36

SCHUBERT FARMS No. 1 API # 30-025-37546 UL: B, SEC 25, T198, R34E

PACILITY ISOTOPE



2019 FLUID INJECTION & BRINE PRODUCTION VOLUME

| MONTH | BRIINE | FRESH WATER | |
|------------|---------|-------------|--|
| JANUARY | 33,307 | 33,197 | |
| FEBRUARY | 32,545 | 32,279 | |
| MARCH | 31,057 | 30,864 | |
| APRIL | 23,006 | 22,861 | |
| MAY | 22,428 | 22,233 | |
| JUNE | 20,388 | 20,252 | |
| JULY | 10,459 | 10,366 | |
| AUGUST | 8,009 | 7,924 | |
| SEPTEMBER | 6,854 | 6,790 | |
| OCTOBER | 25,640 | 25,500 | |
| NOVEMBER | 22,023 | 21,933 | |
| DECEMBER | 27,560 | 27,459 | |
| YEAR TOTAL | 263,276 | 261,658 | |

YEARLY TOTALS BRINE & FRESH

| YEAR | BRINE | FRESH | |
|-------|---------|---------|--|
| 2017 | 153,518 | 148,678 | |
| 2018 | 306,806 | 303,899 | |
| 2019 | 263,276 | 261,658 | |
| TOTAL | 723,600 | 714,235 | |

Semi-Annual Monitor Well Analytical Data Results

Monitor well for the BW-36 last testing for 2018 is on record with OCD, Cardinal Laboratories performed and sampled water from the monitor well on November 21, 2018 for your review. Cardinal Laboratories is accredited through Texas NELAP under certificate number T10470439-18-11.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Please find the Table below comparison of the June 2019 sample and December 2019 sample for Inorganic Compounds and Total Recovery Metals by ICP (E200.7) full detail of the Analytical results are attached at the end of this report for your viewing.

| Analyte | Result | MDL | Reporting | Units | Analyzed | Method |
|---------|--------|-----|-----------|-------|----------|--------|
| | | | Limit | | Date | |

INORGANIC COMPOUNDS JUNE 2019

| Alkalinity, Bicarbonate | 254 | 5.00 | mg/L | 6-12-19 | 310.1 |
|----------------------------|-------|-------|----------|---------|-----------|
| Alkalinity Carbonate | <1.00 | 1.00 | mg/L | 6-12-19 | 310.1 |
| Chloride | 356 | 4.00 | mg/L | 6-13-19 | 4500-C1-B |
| Conductivity | 1900 | 1.0 | uS/cm | 6-12-19 | 120.1 |
| рН | 7.49 | 0.100 | pH Units | 6-12-19 | 150.1 |
| Sulfate | 272 | 50.0 | mg/L | 6-11-19 | 375.4 |
| TDS | 1160 | 5.0 | mg/L | 6-13-19 | 160.1 |
| Alkalinity Total | 208 | 4.0 | mg/L | 6-12-19 | 310.1 |

Continued Report for June 2019

| Analyte | Result | MDL | Reporting Limit | Units | Analyzed Date | Method |
|-----------|--------|-------|--------------------|-------|------------------|----------|
| Calcium | 189 | | 0.500 | mg/L | 6-18-19 | EPA200.7 |
| Magnesium | 49.6 | | 0.500 | mg/L | 6-18-19 | EPA200.7 |
| Potassium | 5.79 | 0.339 | 5.00 | mg/L | 6-18-19 | EPA200.7 |
| Sodium | 150 | | 5.00 | mg/L | 6-18-19 | EPA200.7 |

DECEMBER 2019 RESULTS

| Analyte | Result | MDL | Reporting | Units | Analyzed | Method |
|---------|--------|-----|-----------|-------|----------|--------|
| | | | Limit | | Date | |

INORGANIC COMPOUNDS

| Alkalinity, Bicarbonate | 229 | 5.0 | mg/L | 12-20-19 | 310.1 |
|----------------------------|-------|-------|----------|----------|-----------|
| Alkalinity | | | | | |
| Carbonate | <1.00 | 1.00 | mg/L | 12-20-19 | 310.1 |
| Chloride | 404 | 4.0 | mg/L | 12-19-19 | 4500-C1-B |
| Conductivity | 2140 | 1.00 | uS/cm | 12-20-19 | 120.1 |
| рН | 7.60 | 0.100 | pH Units | 12-20-19 | 150.1 |
| Sulfate | 266 | 50.0 | mg/L | 12-23-19 | 150.1 |
| TDS | 1250 | 5.00 | mg/L | 12-23-19 | 160.1 |
| Alkalinity | | | | | |
| Total | 188 | 4.0 | mg/L | 12-20-19 | 310.1 |

TOTAL RECOVERABLE METALS by ICP (E220.7)

| Calcium | 208 | | 5.00 | mg/L | 12-27-19 | EPA200.7 |
|-----------|-------|-------|-------|------|----------|----------|
| Magnesium | 55.9 | | 5.00 | mg/L | 12-27-19 | EPA200.7 |
| Potassium | <3.39 | 0.339 | 50.00 | mg/L | 12-27-19 | EPA200.7 |
| Sodium | 165 | | 50.00 | mg/L | 12-27-19 | EPA200.7 |

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INJECTION PRESSURE

Injection pressure still runs the same the annulus average is 20 PSIG and the tubing average is at 240 PSIG the RFD pump runs at 56.3 Hz. with a yield of 28 GPM. The lease operator checks the pressure daily and records it on his daily logs.

PIPE LINE HYDROSTATIC TEST RESULTS

Lines that lead to the storage tanks from the wellhead have a hydrostatic pressure of 8.3 pounds of pressure at the base of the line at the fill tank when idle. The operating static pressure average is 11.7 psi respectively. The operating pressure is at around 20 psig. Discharge line is of 3" Polyethylene SDR 11 with a max operating pressure of 160 PSI.

Brine Water transfer line from storage tanks at the Schubert Farms Well # 1 facility to the storage point located 1.5 miles south of the Schubert Farms Well # 1 has an operating pressure of 130 psi. The second point of diversion is the transfer of brine from the storage tanks known as the Peanut Shed to the ANITZ sales facility located 0.8 miles east of WHY 18 on Nadine Rd. (P-26-19S-38E) this line is constructed of 2" SDR 11 Polyethylene Line with a max pressure of 160 psi the line enters into the west 16' tank holding tank at the top and has a hydrostatic pressure at the base of the line of 0 pounds of pressure at the base of the line due to the (Peanut Shed) storage tanks being higher in elevation. In the transferring operation of brine from the storage tanks (Peanut Shed) it takes 20 to 30 static pounds to move fluid through the 2" line to the ANITZ sales point. Pump # 1 runs at 26 GPM and Pump # 2 runs at 42 GPM depending on demand both pumps can be run together.

Visual Leak Inspections Monitoring

H.R.C., Inc. Operation personnel walks each line that is above ground and inspects all connecting points for any sign of leaks or sweating of threads on connections daily.

The Lease Operator drives out the lines that are underground and below frost level for any signs of compromised line integrity. This is done up to four times a day.

Quarterly Chemical Analyses

Cardinal Laboratories is accredited through Texas NELAP under certificate number T10470439-18-11.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Depicted below is Cardinals Analytical Results for Brine and Fresh water at the BW-31.

With this reports is attached the Cardinals results for your viewing.

BRINE ANALYTICAL RESULTS: JUNE 2019

| Analyte | Result | MDL | Reporting | Units | Analyzed | Method |
|---------|--------|-----|-----------|-------|----------|--------|
| | | | Limit | | Date | |

| Alkalinity, Bicarbonate | 234 | 5.0 | mg/L | 6-12-19 | 310.1 |
|----------------------------|---------|-------|----------|---------|-----------|
| Alkalinity Carbonate | <1.00 | 1.00 | mg/L | 6-12-19 | 310.1 |
| Chloride | 188,000 | 4.00 | mg/L | 6-13-19 | 4500-C1-B |
| Conductivity | 236,000 | 1.00 | uS/cm | 6-12-19 | 120.1 |
| pН | 6.93 | 0.100 | pH Units | 6-12-19 | 150.1 |
| Sulfate | 2540 | 500 | mg/L | 6-11-19 | 375.4 |
| TDS | 284,000 | 5.00 | mg/L | 6-14-19 | 160.1 |

H.R.C., Inc.

| Alkalinity | | | | | |
|------------|-----|-----|------|---------|-------|
| Total | 192 | 4.0 | mg/L | 6-12-19 | 310.1 |

TOTAL RECOVERABLE METALS by ICP (E220.7)

Continued Brine Report for June 2019

| Analyte | Result | MDL | Reporting Limit | Units | Analyzed Date | Method |
|-----------|---------|------|--------------------|-------|------------------|----------|
| Calcium | 705 | | 25.0 | mg/L | 6-18-19 | EPA200.7 |
| Magnesium | 303 | | 25.0 | mg/L | 6-18-19 | EPA200.7 |
| Potassium | 606 | 16.9 | 250 | mg/L | 6-18-19 | EPA200.7 |
| Sodium | 145,000 | | 1000 | mg/L | 6-19-19 | EPA200.7 |

BRINE ANALYTICAL RESULTS: DECEMBER 2019

| Analyte | Result | MDL | Reporting | Units | Analyzed | Method |
|---------|--------|-----|-----------|-------|----------|--------|
| | | | Limit | | Date | |

| Alkalinity, Bicarbonate | 234 | 5.0 | mg/L | 12-20-19 | 310.1 |
|----------------------------|---------|-------|----------|----------|-----------|
| Alkalinity Carbonate | <1.00 | 1.00 | mg/L | 12-20-19 | 310.1 |
| Chloride | 176,000 | 4.00 | mg/L | 12-19-19 | 4500-C1-B |
| Conductivity | 263,000 | 1.00 | uS/cm | 12-20-19 | 120.1 |
| рН | 7.16 | 0.100 | pH Units | 12-20-19 | 150.1 |
| Sulfate | 2660 | 500 | mg/L | 12-23-19 | 375.4 |
| TDS | 283,000 | 5.00 | mg/L | 12-23-19 | 160.1 |
| Alkalinity | | | | | |
| Total | 192 | 4.0 | mg/L | 12-20-19 | 310.1 |

Continued Brine Report for December 2019

| Analyte | Result | MDL | Reporting Limit | Units | Analyzed Date | Method |
|-----------|---------|------|--------------------|-------|------------------|----------|
| Calcium | 744 | | 100.0 | mg/L | 12-27-19 | EPA200.7 |
| Magnesium | 233 | | 100.0 | mg/L | 12-27-19 | EPA200.7 |
| Potassium | 340 | 67.7 | 1000 | mg/L | 12-27-19 | EPA200.7 |
| Sodium | 118,000 | | 1000 | mg/L | 12-27-19 | EPA200.7 |

FRESH WATER ANALYTICAL RESULTS: JUNE 2019

| Analyte | Result | MDL | Reporting | Units | Analyzed | Method |
|---------|--------|-----|-----------|-------|----------|--------|
| | | | Limit | | Date | |

| Alkalinity, Bicarbonate | 224 | 5.00 | mg/L | 6-12-19 | 310.1 |
|----------------------------|-------|-------|----------|-----------|-----------|
| - | 224 | 3.00 | ITIB/ L | 0 12 15 | 310.1 |
| Alkalinity | | | 4. | 5 4 5 4 5 | 3404 |
| Carbonate | <1.00 | 1.00 | mg/L | 6-12-19 | 310.1 |
| Chloride | 140 | 4.00 | mg/L | 6-13-19 | 4500-C1-B |
| Conductivity | 1040 | 1.00 | uS/cm | 6-12-19 | 120.1 |
| рН | 7.82 | 0.100 | pH Units | 6-12-19 | 150.1 |
| Sulfate | 190 | 25.00 | mg/L | 6-11-19 | 375.4 |
| TDS | 675 | 5.00 | mg/L | 6-13-19 | 160.1 |
| Alkalinity | | | | | |
| Total | 184 | 4.00 | mg/L | 6-12-19 | 310.1 |

Continued F/W Report for June 2019

| Analyte | Result | MDL | Reporting Limit | Units | Analyzed Date | Method |
|-----------|--------|-------|--------------------|-------|------------------|----------|
| Calcium | 102 | | 0.500 | mg/L | 6-18-19 | EPA200.7 |
| Magnesium | 28.2 | | 0.500 | mg/L | 6-18-19 | EPA200.7 |
| Potassium | 4.15 | 0.339 | 5.00 | mg/L | 6-18-19 | EPA200.7 |
| Sodium | 100 | | 5.00 | mg/L | 6-18-19 | EPA200.7 |

FRESH WATER ANALYTICAL RESULTS: DECEMBER 2019

| Analyte | Result | MDL | Reporting | Units | Analyzed | Method |
|---------|--------|-----|-----------|-------|----------|--------|
| | | | Limit | | Date | |

| Alkalinity, Bicarbonate | 298 | 5.00 | mg/L | 12-20-19 | 310.1 |
|----------------------------|-------|-------|----------|----------|-----------|
| Alkalinity | | | | | |
| Carbonate | <1.00 | 1.00 | mg/L | 12-20-19 | 310.1 |
| Chloride | 248 | 4.00 | mg/L | 12-19-19 | 4500-C1-B |
| Conductivity | 1,640 | 1.00 | uS/cm | 12-20-19 | 120.1 |
| pН | 7.65 | 0.100 | pH Units | 12-20-19 | 150.1 |
| Sulfate | 206 | 50.0 | mg/L | 12-23-19 | 375.4 |
| TDS | 979 | 5.00 | mg/L | 12-23-19 | 160.1 |
| Alkalinity | | | | | |
| Total | 244 | 4.00 | mg/L | 12-20-19 | 310.1 |

Continued F/W Report for December 2019

| Analyte | Result | MDL | Reporting Limit | Units | Analyzed Date | Method |
|-----------|--------|-------------|--------------------|-------|------------------|----------|
| Calcium | 144 | | 5.00 | mg/L | 12-27-19 | EPA200.7 |
| Magnesium | 27.6 | | 5.00 | mg/L | 12-27-19 | EPA200.7 |
| Potassium | 20.8 | 3.39 | 50.00 | mg/L | 12-27-19 | EPA200.7 |
| Sodium | 176 | | 50.00 | mg/L | 12-27-19 | EPA200.7 |

MECHANICAL INTEGRITY TEST CHART

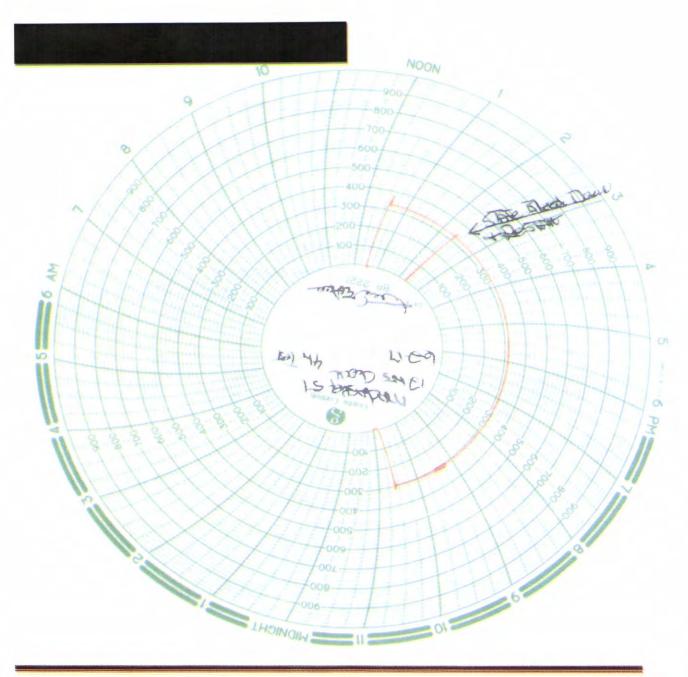
A formation mechanical test was performed on 2/23/17 on the BW-36. The Salado Formation was pressured up to 320 psi and was witnessed by a district officer and C-103 approved by Mark Whitaker in Hobbs on 11/15/17.

Recorder was removed and well was bled back to tanks. Nipple up connections and placed well back into operation producing brine at 230-240 psi. Please find the subsequent report C-103 and the Chart below for your viewing.

Next formation integrity test will be scheduled in February of 2022 H.R.C., Inc. will notify Santa Fe and Hobbs District Office to set up a time and date of the BW-36 Formation MIT.

Please find a copy of the MIT Chart on page 13 on page 14, 15 the C-103 Subsequent Report.

MIT BW-36 CHART 6-2-17



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Feb 9, 2017

tog up Capitan Wireline and set (180 to 2567; above previous CIRP and rement plug that was set to 2750' on June 21, 2016, if the above top of coment was required to set whip stock by Baker Hughest

Feb. 20, 2017

Rig up Lucky Services and Baker Hoghes reverse unit Set BOP; run in hole with 2 7/8" tubing and csp. scraper, circulate, tap CBP io 2660 Run in hole with whipstock and set, lay down 2 joints SDFN

Feb. 21, 2017

Rig up swivel; milt csp. from 2651 to 2661", come out of note and rig up with bit assembly. POOH with milt, lay down, make up bit assy. Run in hole begin drill into salt, drill from 2661" to 2715. Rig down swivel and pull up into csp. 5DER.

Feb 22, 2017

RILL rag (#) 2703, wash to 2715, circulate; space out the with sub-Set bottom of tog 7 bit assembly (#) 2680 Rig down swivel and pulling unit Install well head Hook up reverse unit. Circulate and pressure to 275 ps. SOLN

feb. 23, 2017

Pressure to 300 ps.; make chart; Curulate 5 hours at 150 to 200 ps.; Water turns salty. Ing down reverse unit; Shut well in Begin installing surface equipment

April 17, 2017

Repni injecting water to produce brine water

H.R.C., Inc. has updated the AOR for the Schubert Farms Well # 1 (BW-36) showing no new permits have been plotted on the NM OCD GIS program in the half mile AOR. H.R.C., Inc. will give notice to the Department if any future staking transpires within the AOR.

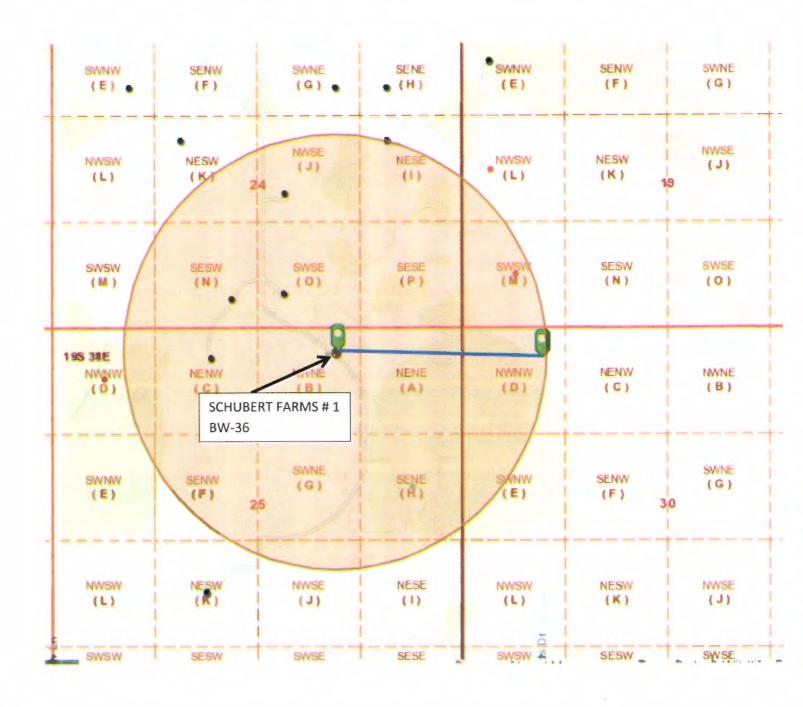
Please find on page 17 a half mile AOR review map showing no new permits nor has there been any new wells drilled at this point.

Please find on page 18 a two mile AOR review showing three new permits below are the APDs in the two mile AOR.

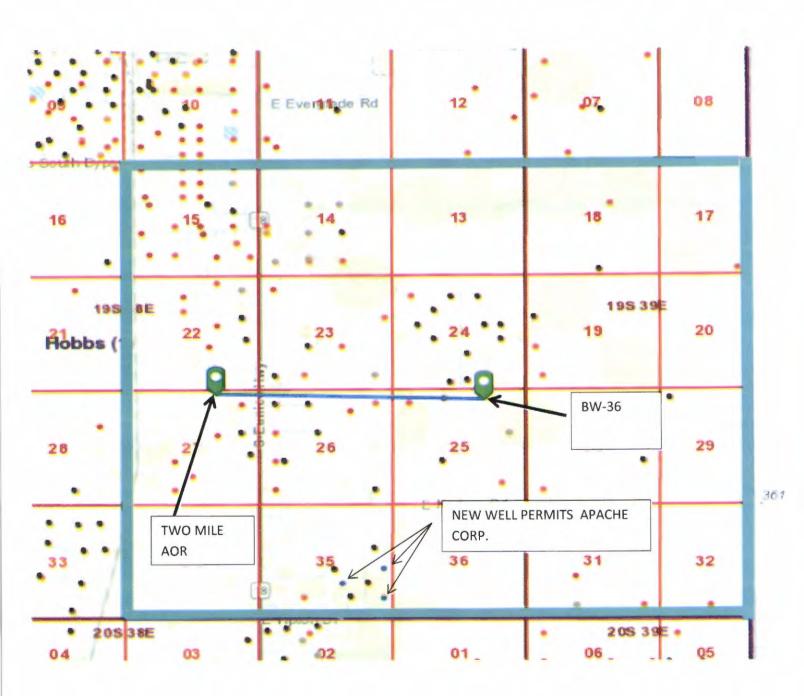
New Permits to Drill in Two Mile AOR

| 30-025- | Werta | Apache | I-35-19S- | 32.61576 | -103.11174 | Oil |
|---------|-----------|--------|-----------|----------|------------|----------|
| 42532 | Federal # | Corp. | 38E | | | House |
| | 006 | | | | | Drinker |
| 30-025- | Plow Boy | Apache | J-35-19S- | 32.61394 | -103-11716 | Oil |
| 42530 | Federal # | Corp. | 38E | | | House |
| | 002 | | | | | Blinebry |
| 30-025- | Werta | Apache | P-35-19S- | 32.61213 | -103.11175 | Oil |
| 42531 | Federal # | Corp. | 38E | | | House |
| | 005 | | | | | Blinebry |

HALF MILE AOR SCHUBERT FARMS WELL # 1 (BW-36)



TWO MILE AOR SCHUBERT FARMS WELL # 1 (BW-36)



MITS, SURFACE SUBSIDENCE SURVEYS, CAVERN SIZE AND SHAPE AND VOLUME

Please see page 13 through page 15 for last MIT conducted and C-103 Subsequent Report on 6-2-17 held 300 psi and passed with OCD witnesses.

Surface Subsidence Surveys were conducted by Basin Surveys certified by Gary L. Jones. Three Elevation markers are in place. Please find below where the EM markers are located for BW-36.

NEW MEXICO STATE PLANE COORDINATES (NAD83)

| WELL | NORTHING | EASTING | LATITUDE | LONGITUDE | ELEVATION |
|------|-----------|-----------|--------------|---------------|-----------|
| EM-1 | 597952.32 | 921529.98 | 32°38′15.88″ | 103°05′53.79″ | 3581.27 |
| EM-2 | 597849.72 | 921532.48 | 32°38'14.86" | 103°05′53.77″ | 3581.58 |
| EM-3 | 598024.36 | 921313.69 | 32°38′16.62″ | 103°05′56.30″ | 3582.37 |

Three Surveys were conducted by Basin Surveys during the 2019 period with the description stating there were no changes in elevations that had occurred also one survey that was conducted in January 2020. H.R.C., Inc. has depicted the 2019 reports of the surveys for your review in the table below. Please find the plats of the Surveys at the end of this report for your viewing.

| REVISION # | DATE | DESCRIPTION |
|------------|------------------|----------------------------------|
| 6 | January 15, 2019 | Resurvey-No Change in Elevations |
| 7 | May 7, 2019 | Resurvey-No Change in Elevations |
| 8 | October 14, 2019 | Resurvey-No Change in Elevations |
| 9 | January 31, 2020 | Resurvey-No Change in Elevations |

Cavern Characterization

BW-36 has extracted an estimated total of 1,104,720 ft.³ of Halite from the Salado formation from March, 2017 to December 31, 2019. This calculates to 88,377,610 lbs. of Halite that has produced 723,600 Bbl. of brine within this period stated above.

The Litho Density Compensated Neutron log shown on page 21 has approximately 51' of good Halite net pay showing less than 4 API units on the Gama Ray side of the log that is presently being mined. This interval is from 2661'-2715'

Without a true means of running a log that would allow us to see a true picture behind the anhydrite rock would be questionable. The characterization of the cavern can be mathematically calculated using $V=\Pi R^2h/3$ where $[V=(3.14159*139.771^2)*(54')/3]$

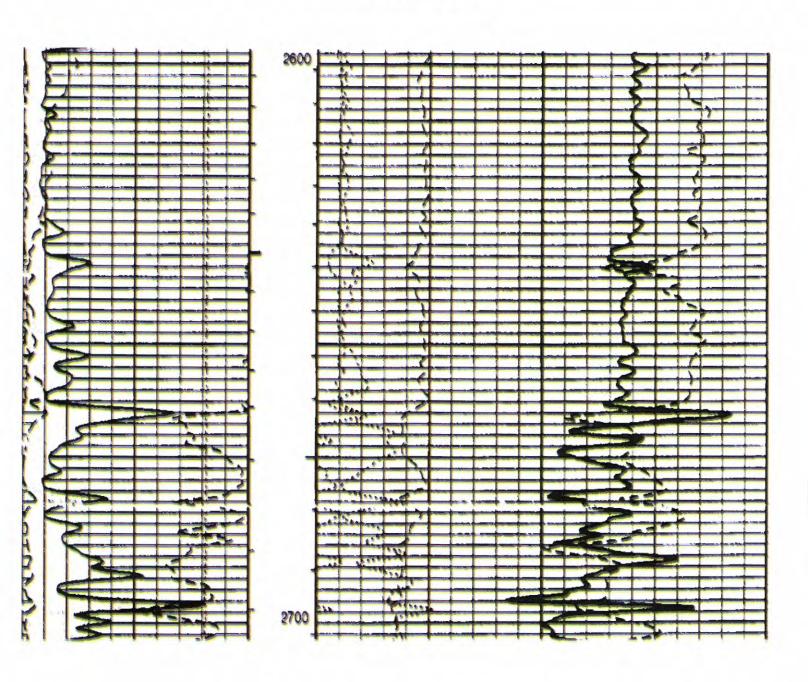
 $V = 1,104,730 \, \text{ft.}^3$ of Halite has been extracted to date respectively. This amount of volume calculated correlates with the total of brine produced from 2017 through December 31, 2019 of 1,104,720 Bbl.

It takes 122.136 Lbs. of salt to produce one barrel of quality brine yielding a Specific Gravity of 1.1959. Multiplying salt ratio to total fluid bbl. total of 723,600 (extracted fluid bbl.) equals 88,377,610 Lbs. of salt mined from 2017 to the end of December 31, 2019.

Taking the amount of Halite mined of 88,377,610 Lbs. and dividing the amount by 80 (Lbs. salt per ft. 3) will equal 1,104,720 ft. 3 . In respect to the cavern safety factor of 0.45 % the Schubert Farms Well No. 1 (BW-36) has a factor value of (279.54' W / 955' H) = 0.29 well below the States warning factor. New horizons above 2661' will yield greater opportunities.

BW-36 has a lot of life to continue mining for Halite that is used throughout our needs for the oil industry in Southeastern New Mexico.

SCHUBERT FARMS WELL # 001 LITHO DENSITY COMPENSATED NEUTRON LOG WINDOW @ 2661' TD OH 2715'



SUMMARY RATIO INJECTION VS. EXTRACTION

2019 FLUID INJECTION & BRINE PRODUCTION VOLUME RATIO %

| MONTH | BRIINE | PSI | FRESH WATER | PSI | RATIO | RATIO % |
|-----------|--------|---------|----------------|-----|-------------|------------|
| JANUARY | 33,307 | 230-240 | 33,197 | 20 | 33307:33197 | 1.003314 |
| FEBRUARY | 32,545 | 230-240 | 32,279 | 20 | 32545:32279 | 1.008241 |
| MARCH | 31,057 | 230-240 | 30,864 | 20 | 31057:30864 | 1.006253 |
| APRIL | 23,006 | 230-240 | 22,861 | 20 | 23006:22861 | 1.006343 |
| MAY | 22,428 | 230-240 | 22,233 | 20 | 7476:7411 | 1.008771 |
| JUNE | 20,388 | 230-240 | 20,252 | 20 | 5097:5063 | 1.006715 |
| JULY | 10,459 | 230-240 | 10,366 | 20 | 10459:10366 | 1.008972 |
| AUGUST | 8009 | 230-240 | 7,924 | 20 | 8009:7924 | 1.010727 |
| 5EPTEMBER | 6,854 | 230-240 | 6,790 | 20 | 3427:3395 | 1.009426 |
| OCTOBER | 25,640 | 230-240 | 25,500 | 20 | 1282:1275 | 1.00549 |
| NOVEMBER | 22,023 | 230-240 | 21,933 | 20 | 2447:2437 | 1.004103 |
| DECEMBER | 27,560 | 230-240 | 27,459 | 20 | 27560:27459 | 1.003678 |

MAJOR FACILITY ACTIVITY OR EVENTS

No major activities or events have taken place during 2019 on location.

SURFACE SUBSIDENCE MONITORING PLAN

Surface Subsidence Surveys were conducted by Basin Surveys certified by Gary L. Jones. Three Elevation markers are in place. Please find below where the EM markers are located for BW-36.

NEW MEXICO STATE PLANE COORDINATES (NAD83)

| WELL | NORTHING | EASTING | LATITUDE | LONGITUDE | ELEVATION |
|------|-----------|-----------|--------------|---------------|-----------|
| EM-1 | 597952.32 | 921529.98 | 32°38′15.88″ | 103°05′53.79″ | 3581.27 |
| EM-2 | 597849.72 | 921532.48 | 32°38′14.86″ | 103°05′53.77″ | 3581.58 |
| EM-3 | 598024.36 | 921313.69 | 32°38′16.62″ | 103°05′56.30″ | 3582.37 |

Three Surveys were conducted by Basin Surveys during the 2019 period with the description stating that there were no changes in elevations also there was a survey that was conducted in January 2020.

Depicted below are the 2019 reports of the surveys for your review with the survey done in January 2020. Please find the plats of the Surveys at the end of this report for your viewing.

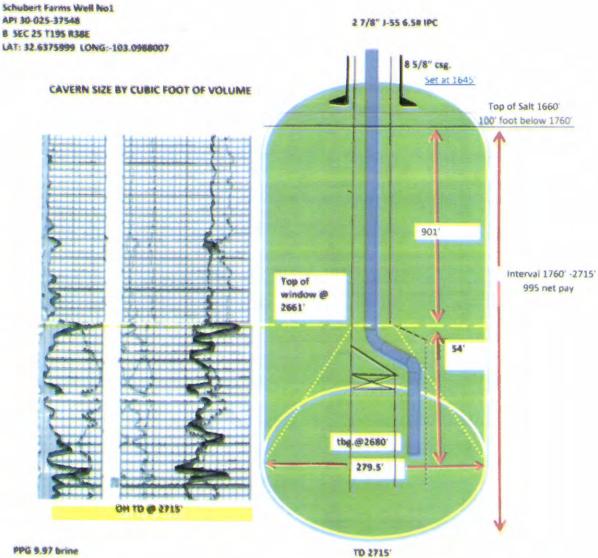
| REVISION # | DATE | DESCRIPTION |
|------------|------------------|----------------------------------|
| 6 | January 15, 2019 | Resurvey-No Change in Elevations |
| 7 | May 7, 2019 | Resurvey-No Change in Elevations |
| 8 | October 14, 2019 | Resurvey-No Change in Elevations |
| 9 | January 31, 2020 | Resurvey-No Change in Elevations |

CAVERN CHARACTERIZATION DATA RESULTS.

Please refer to page 20 and page 21 for data results.

On Page 25; please find the characterization of the Schubert Farms Well No. 1 (BW-36)

We have attached a copy for your viewing at the end of this yearly report.



PPG 8,34 fresh 56 1.1951

2017 thru Dec. 2019 Total Brine bbl. 723,600 122.136 LBS / BBL = 88,377,610 LBS HALITE (88,377,610 LBS) / (808LS per R*) = 1,104,720 R*

V= 1143h / 3 V = (3.14159 * 139.7712) * (541) / 3 V = 1,104,730 R.3

Est. hight is 54' Est. cavern floor diameter is 279.5 Cavern Ratio 279.5' / 955 = 0.29 Factor



HRC, INC.

P. O. Box 5102 Hobbs, NM 88241-5102 Phone # (575) 393-6662 Fax # (575) 393-6662

January 17, 2019

Jim Griswold Senior Hydrologist ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Ref: 2018 Annual Report

Schubert Farms No. 1 (API # 30-025-37548) (BW-34)

Dear Mr. Griswold,

Enclosed please find the monthly freshwater injection and brine production numbers for the Hobbs facility for the year of 2018. Included also are Cardinal Laboratories' results of analyses for samples for the month of December 2017 and the production amounts for December 2017 and the 2017 production totals for your reference.

Thank you,

Sincerely,

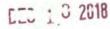
Gary M. Schubert

GMS/br

Schubert Farms Well No. 1

Year 2018

| MONTH | BRINE PRODUCTION | FRESH WATER INJECTED | |
|-----------|---------------------|----------------------|--|
| | (BY Meter) | (By Meter) | |
| January | 25,912 | 25,360 | |
| February | 21,338 | 21,124 | |
| March | 26,609 | 26,407 | |
| April | 20,459 | 20,102 | |
| May | 18,030 | 17,831 | |
| June | 24,897 | 24,719 | |
| July | 23,761 | 23,557 | |
| August | 23,511 | 23,319 | |
| September | 24,333 | 24,114 | |
| October | 29,826 | 29,631 | |
| November | 31,826 | 31,614 | |
| December | 36,304 | 36,121 | |



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



LL0 1. 2010

December 18, 2018

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/21/18 8:15.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524,4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B

Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2

Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

College To Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

Reported:

18-Dec-18 11:46

| Sample ID | 1 | Laboratory ID | Matrix | Date Sampled | Date Received | |
|--------------|---|---------------|--------|-----------------|-----------------|--|
| BRINE WATER | 9 | H803420-01 | Water | 21-Nov-18 06:15 | 21-Nov-18 08:15 | |
| FRESH WATER | | H803420-02 | Water | 21-Nov-18 06:15 | 21-Nov-18 08:15 | |
| MONITOR WELL | , | H803420-03 | Water | 21-Nov-18 06:15 | 21-Nov-18 08:15 | |

Cardinal Laboratories

*=Accredited Analyte

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Clay D. King



Analytical Results For:

ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

Reported:

18-Dec-18 11:46

BRINE WATER

H803420-01 (Water)

| | | | 11003 | 120-01 (118 | ici / | | | | | -4 |
|-----------------------------|--------------|-----|--------------------|--------------|-----------|---------|---------|-----------|-----------|-------|
| Amalyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardii | nal Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 478 | | 5.00 | mg/L | 1 | 8112610 | AC | 26-Nov-18 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 8112610 | AC | 26-Nov-18 | 310.1 | |
| Chloride* | £ 152000 | | 4.00 | mg/L | 1 | 8112601 | AC | 26-Nov-18 | 4500-CI-B | |
| Conductivity* | 237000 | | 1.00 | uS/cm | 1 | 8112118 | AC | 21-Nov-18 | 120.1 | |
| pH* | 6.87 | | 0.100 | pH Units | 1 | 8112118 | AC | 21-Nov-18 | 150.1 | v - |
| Sulfate* | 4190 | | 833 | mg/L | 83.3 | 8112713 | AC | 27-Nov-18 | 375.4 | |
| TDS* | 254000 | | 5.00 | mg/L | 1 | 8112718 | AC | 28-Nov-18 | 160.1 | |
| tikalinity, Total* | 392 | | 4.00 | mg/L | 1 | 8112610 | AC | 26-Nov-18 | 310.1 | • |
| - 54 | der | | Green Ans | alytical Lab | oratories | | | | | *4 |
| Total Recoverable Metals by | ICP (E200.7) | | | | | | | | | |
| Calcium* | 820 | | 50.0 | mg/L | 500 | B812008 | AES | 05-Dec-18 | EPA200.7 | |
| Magnesium* | 507 | | 50.0 | mg/L | 500 | B812008 | AES | 05-Dec-18 | EPA200.7 | |
| Potassium* | , 830 | | 500 | mg/L | 500 | B812008 | AES | 05-Dec-18 | EPA200.7 | |
| Sodium* | 94700 | | 500 | mg/L | 500 | B812008 | AES | 05-Dec-18 | EPA200.7 | |
| | | | | | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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11

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES

Reported: 18-Dec-18 11:46

Project Manager: BEN DONAHUE

Fax To:

FRESH WATER H803420-02 (Water)

| Analyte | . Result | MDL | Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-------------------------|----------|-----|-----------|--------------|----------|---------|---------|-----------|-----------|-------|
| | | | Cardin | al Laborat | ories | | | | | _ |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 327 | | 5.00 | mg/L | 1 | 8112610 | AC | 26-Nov-18 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 8112610 | AC | 26-Nov-18 | 310.1 | , |
| Chloride* | 260 | | 4.00 | mg/L | 1 | 8112601 | AC | 26-Nov-18 | 4500-CI-B | |
| Conductivity* | 1490 | | 1.00 | uS/cm | 1 | 8112118 | AC | 21-Nov-18 | 120.1 | |
| pH* | _ 7.53 | | 0.100 | pH Units | 1 | 8112118 | AC | 21-Nov-18 | 150.1 | |
| Sulfate* | 165 | | 50.0 | mg/L | 5 | 8112713 | AC | 27-Nov-18 | 375.4 | |
| ΓDS* | 702 | | 5.00 | mg/L | 1 | 8112718 | AC | 28-Nov-18 | 160.1 | |
| Alkalinity, Total* | 268 | | 4.00 | mg/L | 1 | 8112610 | AC | 26-Nov-18 | 310.1 | 4 |
| | 2 | | | | | | | | | |
| | e | | | | | | | | | |
| | | | Green Ana | lytical Labo | ratories | | | | | |

| Total Recoverable Meta | als by ICP (E200.7) | | | | | | | | |
|------------------------|---------------------|-------|------|---|---------|-----|-----------|----------|---|
| Calcium* | 110 | 0.100 | mg/L | 1 | B812008 | AES | 05-Dec-18 | EPA200.7 | |
| Magnesium* | 21.6 | 0.100 | mg/L | 1 | B812008 | AES | 05-Dec-18 | EPA200.7 | |
| Potassium* | 14.6 | 1.00 | mg/L | 1 | B812008 | AES | 05-Dec-18 | EPA200.7 | , |
| Sodium* | 150 | 1.00 | mg/L | 1 | B812008 | AES | 05-Dec-18 | EPA200.7 | |
| 1. | | | | | | | | | |

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Celegra Keerige



Analytical Results For:

ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

Reported:

18-Dec-18 11:46

MONITOR WELL H803420-03 (Water)

| -Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-----------------------------|-------------------|-----|--------------------|-------------|-----------|---------|---------|-----------|-----------|-------|
| | | | Cardin | al Laborat | ories | | - | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 288 | | 5.00 | mg/L | 1 | 8112610 | AC | 26-Nov-18 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 8112610 | AC | 26-Nov-18 | 310.1 | |
| Chloride* | 320 | | 4.00 | mg/L | 1 | 8112601 | AC | 26-Nov-18 | 4500-C1-B | |
| Conductivity* | 1800 | | 1.00 | uS/cm | 1 | 8112118 | AC | 21-Nov-18 | 120.1 | |
| pH* | _ 7.58 | | 0.100 | pH Units | 1 | 8112118 | AC | 21-Nov-18 | 150.1 | |
| Sulfate* | 298 | | 50.0 | mg/L | 5 | 8112713 | AC | 27-Nov-18 | 375.4 | |
| TDS* | 982 | | 5.00 | mg/L | 1 | 8112718 | AC | 28-Nov-18 | 160.1 | |
| Alkalinity, Total* | 236 | | 4.00 | mg/L | 1 | 8112610 | AC | 26-Nov-18 | 310.1 | |
| • | | | | | | | | | | 70.0 |
| | | | Green Ana | lytical Lab | oratories | | | | | , |
| Total Recoverable Metals by | ICP (E200.7) | | | | | | | | | |
| Ćalcium* | 172 | | 0.100 | mg/L | 1 | B812009 | AES | 07-Dec-18 | EPA200.7 | |
| Magnesium* | [™] 44.3 | | 0.100 | mg/L | 1 | B812009 | AES | 07-Dec-18 | EPA200.7 | |
| Potassium* | 4.95 | | 1.00 | mg/L | 1 | B812009 | AES | 07-Dec-18 | EPA200.7 | |
| Sodium* | 124 | | 1.00 | mg/L | 1 | B812009 | AES | 07-Dec-18 | EPA200.7 | |

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*=Accredited Analyte

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ETZ WATER STATION PO BOX 6056

HOBBS NM, 88241

Analyte

Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES

Source

Result

Prepared & Analyzed: 26-Nov-18

%REC

%REC

Limits

80-120

80-120

80-120

104

RPD

Project Manager: BEN DONAHUE

Fax To:

Reported:

18-Dec-18 11:46

RPD

Limit

Inorganic Compounds - Quality Control

Cardinal Laboratories

Units

Spike

Level

Reporting

Limit

Result

5.00

4.00

ND

318

260

5.00

4.00

2.50

12.5

10.0

mg/L

mg/L

mg/L

mg/L

mg/L

250

| 7 | | *************************************** | | | | | | | | |
|------------------------------|------------|---|-------------|----------|-----------------|------------------|--------|-------|----|--|
| Batch 8112118 - General Prep | - Wet Chem | | | | | | | | | |
| LCS (8112118-BS1) | * | | | | Prepared & Anal | yzed: 21-Nov-18 | 3 | | | |
| Conductivity | | 100000 | | uS/cm | 100000 | 100 | 80-120 | | | |
| рН | 3 | 7.12 | | pH Units | 7.00 | 102 | 90-110 | | | |
| Duplicate (8112118-DUP1) | | Sour | ce: H803419 | 0-01 | Prepared & Anal | yzed: 21-Nov-18 | 3 | | | |
| Conductivity | | 236000 | 1.00 | uS/cm | 237 | 7000 | | 0.338 | 20 | |
| pĤ | | 7.07 | 0.100 | pH Units | 7. | 02 | | 0.710 | 20 | |
| Batch 8112601 - General Prep | - Wet Chem | | | | | ATT. | | | | |
| Blank (8112601-BLK1) | 4. | | | | Prepared & Anal | lyzed: 26-Nov-18 | 3 | | | |
| inforide | - | ND | 4.00 | mg/L | | | | | | |
| ECS (8112601-BS1) | | _ | | | Prepared & Anal | yzed: 26-Nov-18 | 3 | | | |
| Chloride | £ | 100 | 4.00 | mg/L | 100 | 100 | 80-120 | | | |
| LCS Dup (8112601-BSD1) | | | | | Prepared & Anal | lyzed: 26-Nov-18 | 3 | | | |
| Chloride | - | 100 | 4.00 | mg/L | 100 | 100 | 80-120 | 0.00 | 20 | |
| Batch 8112610 - General Proj | - Wef Chem | | - <u>-</u> | | | | | | | |
| Blank (8112610-BLK1) | | | | | Prepared & Anal | lyzed: 26-Nov-18 | 3 | | | |
| Alkalinity, Carbonate | | ND | 1.00 | mg/L | | | | | | |

Cardinal Laboratories

Alkalinity, Bicarbonate

LCS (8112610-BS1) kalinity, Carbonate kalinity, Bicarbonate

Alkalinity, Total

Alkalinity, Total

11:

*=Accredited Analyte

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Celeg & King

Céley D. Keene, Lab Director/Quality Manager



ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

Reported:

18-Dec-18 11:46

Inorganic Compounds - Quality Control

Cardinal Laboratories

| Analyte | <u>.</u> | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------|------------|--------|--------------------|-------|----------------|---------------------------|-------------|----------------|------|--------------|-------|
| Batch 8112610 - General Prep | - Wet Chen | 1 | | | | | | | | | |
| LCS Dup (8112610-BSD1) | Į. | | | | Prepared & | Analyzed: | 26-Nov-18 | | | | • |
| Alkalinity, Carbonate | * | ND | 2.50 | mg/L | | | | 80-120 | | 20 | |
| Alkalinity, Bicarbonate | | 305 | 12.5 | mg/L | | | | 80-120 | 4.02 | 20 | |
| Alkahinity, Total | | 250 | 10.0 | mg/L | 250 | | 100 | 89-120 | 3.92 | 20 | |
| March \$112713 - General Prop | - Wel Ches | 4 | | | | | | | | | |
| Blank (8112713-BLK1) | *** | | | | Prepared & | Analyzed: | 27-Nov-18 | 3 | | | |
| Sulfate | 31 | ND | 10.0 | mg/L | | | | | | | |
| LCS (8112713-BS1) | - 4 | | | | Prepared & | Analyzed: | 27-Nov-18 | 3 | | | |
| ulfate | 2 | 23.3 | 10.0 | mg/L | 20.0 | | 117 | 80-120 | | | |
| LCS Dup (8112713-BSD1) | | | | | Prepared & | k Analyzed: | 27-Nov-18 | 3 | | | |
| Sulfate | ţ. | 19.6 | 10.0 | mg/L | 20.0 | | 98.0 | 80-120 | 17.5 | 20 | |
| Batch 8112718 - Filtration | <u>.</u> | | | | | | | | | | |
| Blank (8112718-BLK1) | | | | | Prepared: | 27-Nov-18 | Analyzed: 2 | 28-Nov-18 | | | |
| TDS | k | ND | 5.00 | mg/L | | | | | | | |
| LCS (8112718-BS1) | | | | | Prepared: | 27-Nov-18 | Analyzed: 2 | 28-Nov-18 | | | |
| ibs | <u>t</u> | 574 | | mg/L | 672 | ments programment states. | 85.4 | 80-120 | | | |
| Buplicate (8112718-DUP1) | | Sou | rce: H803420 | -01 | Prepared: | 27-Nov-18 | Analyzed: 2 | 28-Nov-18 | | | |
| FDS | | 265000 | 5.00 | mg/L | | 254000 | | | 3.95 | 20 | |

Cardinal Laboratories

*=Accredited Analyte

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Celley D. Keing

Celey D. Keene, Lab Director/Quality Manager



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT

Reported:

Project Number: FARMS #1 WATER SAMPLES

18-Dec-18 11:46

Project Manager: BEN DONAHUE

Fax To:

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

| Analyte | | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|---------------|--------|--------------------|--------------|----------------|------------------|--------------|----------------|-------|--------------|-------|
| Batch B812008 - Total Rec. 2 | 00.7/200.8/20 | 0.2 | | | | | | | | | |
| Biank (B812008-BLK1) | | | | | Prepared: (| 03-Dec-18 A | Analyzed: 0 | 5-Dec-18 | | | |
| Sodium | | ND | 1.00 | mg/L | | | | | | | |
| Salcium Magnesium Potassium | re Ne | ND | 0.100 | mg/L | | | | | | | |
| Agnesium | r- | ND | 0.100 | mg/L | | | | | | | |
| otassium | 4 | ND | 1.00 | mg/L | | | | | | | |
| ECS (B812008-BS1) | * | | | | Prepared: (| 03-Dec-18 A | Analyzed: 0 | 5-Dec-18 | | | |
| Calcium | | 3.94 | 0.100 | mg/L | 4.00 | - | 98.6 | 85-115 | | | |
| Sodium | 3; | 3.51 | 1.00 | mg/L | 3.24 | | 108 | 854115 | | | |
| Magnesium | | 19.5 | 0.100 | mg/L | 20.0 | | 97.5 | 85-115 | | | |
| Potassium | 3 | 8.22 | 1.00 | mg/L | 8.00 | | 103 | 85-115 | | | |
| LCS Dup (B812008-BSD1) | = | | | | Prepared: | 03-Dec-18 A | Analyzed: 0 | 5-Dec-18 | | | |
| Potassium | - | 8.08 | 1.00 | mg/L | 8.00 | | 101 | 85-115 | 1.65 | 20 | |
| Sodium | 3 | 3.40 | 1.00 | mg/L | 3.24 | | 105 | 85-115 | 3.01 | 20 | |
| Calcium | * | 3.98 | 0.100 | mg/L | 4.00 | | 99.5 | 85-115 | 0.907 | 20 | |
| a grossiaca | | 19.7 | 0.100 | mg/L | 20.0 | | 98.4 | 85-115 | 0.965 | 20 | |
| Mitch Bill 2009 - Total Rec. 2 | 00.7/200.8/20 | 0.2 | | | | | | | | | |
| Blank (B812009-BLK1) | | | | | Prepared: | 03-Dec-18 / | Analyzed: 0 | 7-Dec-18 | | | |
| Magnesium | | ND | 0.100 | mg/L | | | | | | | |
| Šódium | ÷ | ND | 1.00 | mg/L | | | | | | | |
| Potassium | | ND | 1.00 | mg/L | | | | | | | |
| Calcium | | ND | 0.100 | mg/L | | | | | | | |
| LCS (B812009-BS1) | | | | | Deanasad: | 03-Dec-18 | A nobyrod: 1 | I Dec 18 | | | |
| Potassium | _ | 8.21 | 1.00 | mg/L | 8.00 | 03-1066-107 | 103 | 85-115 | | | |
| Magnesium | , | 20.7 | 0.100 | mg/L mg/L | 20.0 | | 103 | 85-115 | | | |
| Calcium | MA | 4.17 | 0.100 | mg/L | 4.00 | | 104 | 85-115 | | | |
| Sodium | | 3.38 | 1.00 | mg/L | 3.24 | | 104 | 85-115 | | | |
| | | 3.50 | 1.00 | IIIE | 3.24 | | 104 | 03-113 | | | |
| A . | | | | | | | | | | | |
| h- | | | | | | | | | | | |

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including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidieries, efficiency afficiency afficiency afficiency of or related to the performance of the services hereunder by Cardinal, reg

Calley D. Keine

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES

Reported: 18-Dec-18 11:46

Project Manager: BEN DONAHUE

Fax To:

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

| dulyte | | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|-------------|--------|--------------------|-------|----------------|------------------|------------|----------------|-------|--------------|-------|
| Satch B812009 - Total Rec. 200.7 | //200.8/200 | .2 | | | | | | | | | |
| CS Dup (B812009-BSD1) | | | | | Prepared: (| 03-Dec-18 A | nalyzed: I | 1-Dec-18 | | | |
| Stassium | | 8.16 | 1.00 | mg/L | 8.00 | | 102 | 85-115 | 0.686 | 20 | |
| alcium | 3 | 4.19 | 0.100 | mg/L | 4.00 | | 105 | 85-115 | 0.480 | 20 | |
| odium | | 3.34 | 1.00 | mg/L | 3.24 | | 103 | 85-115 | 1.13 | 20 | |
| Magnesium | 0. | 20.8 | 0.100 | mg/L | 20.0 | | 104 | 85-115 | 0.586 | 20 | |
| | | | | | | | | | | | |

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Celley D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 9 of 11





Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500CI-8 does not require samples be received at or below $6^{\rm o}{\rm C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

ARDINAL aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

d By:

Time:

By: (Circle One) Sample Condition Cool Intact PS - Bus > Other: 0, 90 # # 97 | Presidentes

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nes len



June 04, 2018

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 05/18/18 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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.tceg.texas.gov/field/ga/lab_accred_certif.html.

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

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method 5M 9223-B

Total Coliform and E, coli (Colilert MMO-MUG)

Method EPA 524.2

Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

Celeg & Keine

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,

Celey D. Keene

Lab Director/Quality Manager

J-RRN (0-4-18)

Page 1 of 11



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT

Reported:

Project Number: FARMS #1 WATER SAMPLES- BRIN

04-Jun-18 12:06

Project Manager: BEN DONAHUE

Fax To:

FRESH WATER

H801390-01 (Water)

| Analyte | Result | MDI. | Reporting Limit | Units | Delution | Batch | Analyst | Analyzed | Method | Notes |
|-----------------------------|--------------|------|--------------------|-------------|-----------|---------|---------|-----------|-----------|-------|
| | | | Cardin | nal Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 229 | | 5.00 | mg/L | 1 | 8050906 | AC | 21-May-18 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 8050906 | AC | 21-May-18 | 310.1 | |
| Chloride* | 124 | | 4.00 | mg/L | 1 | 8051614 | AC | 21-May-18 | 4500-Cl-B | |
| Conductivity* | 1020 | | 1.00 | uS/cm | 1 | 8052104 | AC | 21-May-18 | 120.1 | |
| рН* | 7.87 | | 0.100 | pH Units | 1 | 8052104 | AC | 21-May-18 | 150.I | |
| Sulfate* | 206 | | 50,0 | mg/L | 5 | 8052201 | AC | 22-May-18 | 375.4 | |
| TDS* | 656 | | 5.00 | mg/L | 1 | 8052105 | AC | 23-May-18 | 160,1 | |
| Alkalinity, Total* | 188 | | 4.00 | mg/L | 1 | 8050906 | AC | 21-May-18 | 310.1 | |
| | | | Green Ana | lytical Lab | eratories | | | | | |
| Total Recoverable Metals by | 1CP (E200.7) | | | | | | | | | |
| Calcium* | 85.3 | | 1.00 | տը∕L | 10 | B805178 | ЉА | 29-May-18 | EPA200.7 | |
| Magnesium* | 24.7 | | 1.00 | mg/L | 10 | B805178 | JDA | 29-May-18 | EPA200.7 | |
| Potassium* | <10.0 | | 10,0 | mg/L | 10 | D805178 | JDA . | 29-May-18 | EPA200,7 | |
| Sodium* | 92.3 | | 10.0 | mg/L | 10 | B805178 | JDA | 29-May-18 | EPA200.7 | |

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Celley I tream ...

Celey D. Keene, Lab Director/Quality Manager



ETZ WATER STATION

Project: SCHUBERT

Reported:

PO BOX 6056

Project Number: FARMS #1 WATER SAMPLES- BRIN

04-Jun-18 12:06

HOBBS NM, 88241

Project Manager: BEN DONAHUE

Fax To:

BRINE WATER H801390-02 (Water)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-----------------------------|--------------|-----|--------------------|--------------|----------|---------|---------|-----------|-----------|-------|
| | | | Cardin | ial Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 256 | | 5.00 | mg/L | 1 | 8050906 | AC | 21-May-18 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 8050906 | AC | 21-May-18 | 310.1 | |
| Chloride* | 166000 | | 4.00 | mg/L | 1 | 8051614 | AC | 21-May-18 | 4500-CI-B | |
| Conductivity* | 236000 | | 1.00 | uS/cm | i | 8052104 | AC | 21-May-18 | 120.1 | |
| pH* | 6.95 | | 0.100 | pH Units | 1 | 8052104 | AC | 21-May-18 | 150.1 | |
| Sulfate* | 4490 | | 833 | mg/L | 83.33 | 8052201 | AC | 22-May-18 | 375.4 | |
| TDS* | 263000 | | 5.00 | mg/L | 1 | 8052105 | AC | 23-May-18 | 160.1 | |
| Alkalinity, Total* | 210 | | 4.00 | mg/L | 1 | 8050906 | AC | 21-May-18 | 310.1 | |
| | | | Green Ana | lytical Labo | ratories | | | | | |
| Total Recoverable Metals by | ICP (E200.7) | | | | | | | | | |
| Calcium* | 814 | | 50.0 | mg/L | 500 | B805178 | JDA | 29-May-18 | EPA200.7 | |
| Magnesium* | 401 | | 50.0 | mg/L | 500 | B805178 | JDA | 29-May-18 | EPA200.7 | |
| Potassinm* | 667 | | 500 | mg/L | 500 | B805178 | JDA | 29-May-18 | EPA200.7 | |
| Sodium* | 98200 | | 500 | mg/L | 500 | B805178 | JDA | 29-May-18 | EPA200.7 | |

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Certifications -



ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

SCHOBERT

Project Number: FARMS #1 WATER SAMPLES- BRIN

S- BRIN 04-Jun-18 12:06

Reported:

Project Manager: BEN DONAHUE

Fax To:

MONITOR WELL H801390-03 (Water)

| Analyte | Result | MDI. | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-----------------------------|--------------|------|--------------------|--------------|-----------|---------|----------|-----------|-----------|-------|
| | | | Cardin | al Laborat | ories | | | • | | |
| Inorganic Compounds | | | | | | <u></u> | <u>.</u> | <u> </u> | | |
| Alkalinity, Bicarbouate | 249 | | 5.00 | mg/I. | 1 | 8050906 | ΛC | 21-May-18 | 310.1 | - |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 8050906 | AC | 21-May-18 | 310.1 | |
| Chloride* | 328 | | 4.00 | mg/L | 1 | 8052107 | AC | 21-May-18 | 4500-CI-B | |
| Conductivity* | 1860 | | 1.00 | uS/can | 1 | 8052104 | AC | 21-May-18 | 120.1 | |
| pH* | 7.56 | | 0.100 | pH Units | 1 | 8052104 | AΓ | 21-May-18 | 150.1 | |
| - Sulfate* | 273 | | 50.0 | mg/L | 5 | 8052201 | AC | 22-May-18 | 375.4 | |
| TDS* | 1170 | | 5.00 | mg/L | ì | 8052105 | AC | 23-May-18 | 160.1 | |
| Alkalinity, Total* | 204 | | 4.00 | nig/L | t | 8050906 | AC | 21-May-18 | 310.1 | |
| | | | Green Ana | lytical Labo | oratories | | | | | |
| Total Recoverable Metals by | ICP (E290.7) | | | | | | | | | |
| Calcium* | 176 | | 1.00 | mg/L | 10 | B805178 | JDA | 29-May-18 | EPA200.7 | |
| Magnesium* | 46.5 | | 1.00 | mg/L | 10 | B805178 | JDA | 29-May-18 | EPA200.7 | |
| Potassium* | <10.0 | | 10.0 | mg/L | 10 | B805178 | JDA | 29-May-18 | EPA200.7 | |
| Sodium* | 127 | | 10.0 | mg/L | 10 | B805178 | JDA | 29-May-18 | EPA200.7 | |

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ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES- BRIN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-Jun-18 12:06

Inorganic Compounds - Quality Control

Cardinal Laboratories

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---|--------|-----------|---------------------------------------|------------|-----------|-----------|----------------------------------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 8050906 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (8050906-BLK1) | | | | Prepared & | Analyzed: | 09-May-18 | 3 | | | |
| Alkalinity, Carbonate | ND | 1.00 | mg/L | | | | | | | |
| Alkalinity, Bicarbonate | 5.00 | 5.00 | ing/L | | | | | | | |
| Alkalinity, Total | 4.00 | 4.00 | mg/L | | | | | | | |
| LCS (8050906-BS1) | | | | Prepared & | Analyzed: | 09-May-18 | 3 | | | |
| Alkalinity, Carbonate | ND | 2.50 | mg/L | | | | 80-120 | | | |
| Alkalinuty, Bicarbonate | 318 | 12.5 | mg/L | | | | 80-120 | | | |
| Alkalinity, Total | 260 | 10.0 | mg/L | 250 | | 104 | 80-120 | | | |
| LCS Dup (8050906-BSD1) | | | | Prepared & | Analyzed: | 09-May-18 | 3 | | | |
| Alkalinity, Carbonate | ND | 2.50 | mg/L | | | | 80-120 | | 20 | |
| Alkalinity, Bicarbonate | 365 | 12.5 | mg/L | | | | 80-120 | 13.9 | 20 | |
| Alkalinity, Total | 300 | 0.01 | mg/L | 250 | | 120 | 80-120 | 14.3 | 20 | |
| Batch 8051614 - General Prep - Wet Chem | | | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| Blank (8051614-BLK1) | | | | Prepared & | Analyzed: | 16-May-18 | 3 | | | |
| Chloride | ND | 4.00 | mg/L | | | | The second section of the second | | | |
| LCS (8051614-BS1) | | | | Prepared & | Analyzed: | 16-May-18 | 3 | | | |
| Chloride | 100 | 4,00 | mg/L | 100 | | 100 | 80-120 | | | |
| LCS Dup (8051614-BSD1) | | | | Prepared & | Analyzed: | 16-May-18 | . | | | |
| Chloride | 104 | 4.00 | mg/L | 100 | | 104 | 80-120 | 3.92 | 20 | |
| Batch 8052104 - General Prep - Wet Chem | | | | | · | | | | | |
| LCS (8052104-BS1) | | | | Prepared & | Analyzed | 21-May-18 | 3 | | | |
| Conductivity | 501 | | uS/cm | 500 | | 100 | 80-120 | | | |
| Hq | 7.20 | | pH Units | 7.00 | | 103 | 90-110 | | | |

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ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Reported:

Project Number: FARMS #1 WATER SAMPLES- BRIN

04-Jun-18 12:06

Project Manager: BEN DONAHUE

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

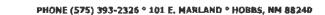
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|---------------------------------------|----------|----------------|------------------|-------------|---------------------------------------|--------|--------------|-------|
| Batch 8052104 - General Prep - Wet Chem | | | | | | | | | | |
| Duplicate (8052104-DUP1) | Sou | rce: H801389 | -01 | Prepared & | & Analyzed: | 21-May-1 | 8 | | | |
| Conductivity | 1020 | 1.00 | uS/cm | | 1020 | | | 0.0984 | 20 | |
| рĦ | 7.54 | 0,100 | pH Units | | 7,53 | | | 0.133 | 20 | |
| Batch 8052105 - Filtration | | | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| Blank (8052105-BLK1) | | | | Prepared: 2 | 21-May-18 | Analyzed: | 23-May-18 | | | |
| TDS | ND | 5.00 | nig/L | | | | | • | | |
| LCS (8052105-BS1) | | | | Prepared: 2 | 21-May-18 | Analyzed: : | 23-May-18 | | | |
| TDS | 518 | 5.00 | mg/L | 527 | | 98.3 | 80-120 | | | |
| Duplicate (8052105-DUPI) | Son | rce: H801385 | -01 | Prepared: 1 | 21-May-18 a | Analyzed: | 23-May-18 | | | |
| TDS | 996 | 5.00 | mg/i | - | 1000 | | | 0.800 | 20 | |
| Batch 8052107 - General Prep - Wet Chem | | · · · · · · · · · · · · · · · · · · · | | *** | | | | | | |
| Blank (8052107-BLK1) | | | | Prepared & | č Analyzed: | 21-May-1 | 8 | | | |
| Chloride | ND | 4.00 | mgL | | | | | | | |
| LCS (8052107-BS1) | | | | Prepared & | & Analyzed: | 21-May-1 | 8 | | | |
| Chlaride | 100 | 4.00 | mg/[. | 100 | | 100 | 80-120 | | | |
| 1.CS Dup (8052107-BSD1) | | | | Prepared & | & Analyzed. | 2{•May-1 | 8 | | | |
| Chloride | 104 | 4.00 | mg/L | 100 | | 104 | R0-120 | 3.92 | 20 | |

Cardinal Laboratories

*=Accredited Analyte

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Carry It Alexan





ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT

Reported:

Project Number: FARMS #1 WATER SAMPLES- BRIN

04-Jun-18 12:06

Project Manager: BEN DONAHUE

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|----------------|------------------|-----------|----------------|------|--------------|-------|
| Batch 8052201 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (8052201-BLK1) | | | | Prepared & | z Analyzeď | 22-May-18 | 3 | | | |
| Sulfate | ND | 10.0 | mg/L | | | | | | | |
| LCS (8052201-BS1) | | | | Prepared & | Analyzed: | 22-May-18 | 3 | | | |
| Sulfate | 19.6 | 10.0 | mg/L | 20.0 | | 98.2 | 80-120 | | | |
| LCS Dup (8052201-BSD1) | | | | Prepared & | Analyzed: | 22-May-18 | 3 | | | |
| Sulfate | 20.8 | 10.0 | mg/L | 20.0 | | 104 | 80-120 | 5,88 | 20 | |

*=Accredited Analyte Cardinal Laboratories

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ally the street



ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Reported:

Project Number: FARMS #1 WATER SAMPLES- BRIA

04-Jun-18 12:06

Project Manager: BEN DONAHUE

Fax To:

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------|--------------------|---------------------|----------------|------------------|-------------|----------------|------|--------------|--------|
| | 5,00011 | 2,1111 | 17100 | 10101 | recount | 701000 | Links | KLD. | Dime | 110103 |
| Batch B805178 - Total Rec. 200.7/200.8/200.2 | w | | | | | | | | | |
| Blank (B805178-BUK1) | | | _ | Prepared: 2 | 4-May-18 / | Analyzed: 2 | 9-May-18 | | _ | |
| Porassium | ND | 1.00 | mg/L | | | | | | | |
| Magnesium | ND | 0.100 | $m \underline{g}/L$ | | | | | | | |
| Calcium | ND | 0.100 | mg/L | | | | | | | |
| Sodium | ND | 1.00 | mg/L | | | | | | | |
| LCS (B805178-BS1) | | | | Prepared: 2- | 4-May-18 A | Analyzed, 2 | 9-May-18 | | | |
| Magnesium | 20.2 | 0.100 | mg/L | 20.0 | | 101 | 85-115 | | | |
| Potassium | 8.17 | 1.00 | mg/L | 8.00 | | 102 | 85-115 | | | |
| Calcium | 4.00 | 0.100 | mg/L | 4.00 | | 100 | 85-115 | | | |
| Sodium | 3.21 | 1,00 | mg/L | 3.24 | | 99.2 | 85-115 | | | |
| LCS Dup (B805178-BSD1) | | | | Prepared: 2 | 4-May-18 / | Analyzed: 2 | 9-May-18 | | | |
| Calcium | 4.07 | 0.100 | mg/L | 4.00 | | 102 | 85-115 | 1.63 | 20 | |
| Polassium | 8.34 | 1.00 | mg/L | 8.00 | | 104 | 85-115 | 2.03 | 20 | |
| Sodium | 3.26 | 1.00 | mg/L | 3.24 | | 101 | 85-115 | 1.43 | 20 | |
| Magnesium | 20.6 | 0.100 | mg/L | 20.0 | | 103 | 85-115 | 1.60 | 20 | |

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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. |
| alt and alt | Insufficient time to reach temperature, |
| n | Chloride by SM4500CI-8 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| - Ct-57-25-25-25-25-25-25-25-25-25-25-25-25-25- | P.O. #: | Company: | | Project Owner: | me: Schulza Farms 41 worker Samples State: Zip: | nne well Phone #: | | MATRIX PRESERV SAMPLING | CONTRINERS CONTRINERS MASTEWATER OIL LUDGE CID/BASE: CID/BASE: THER: THE | 2 18 18 18 18 18 18 18 18 18 18 18 18 18 | > | | | ballity and Demages. Cardinal's liability and client's exclusive remedy for any claim sinking whether based in contract or tact, shall be limited to the amount paid by the client for the |
|---|---------|----------|----|----------------|---|-------------------|----|-------------------------|--|--|----|-------|--|--|
| ANALYSIS REQUEST | | | se | | | | 2/ | | | 2x / | Ta | 15a L | | edentior the |

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garymsdrutect (gamai 1.com

CHECKED BY: (Initials) /

Sample Condition
Cool Intact
Tyes Pres

d By: (Circle One) UPS - Bus - Other:

Fax Result: Thes IN No REMARKS:

Encil 125-175-16

11me: 50

ed By:

Time:

Schubert Farms Well No. 1

Year 2017

| MONTH | BRINE PRODUCTION (BY Meter) | FRESH WATER INJECTED (By Meter) | |
|-----------|-----------------------------------|---------------------------------|--|
| | | | |
| _ | | | |
| January | | | |
| February | | | |
| March | | | |
| April | | | |
| May | | | |
| June | | | |
| July | | | |
| August | | | |
| September | | | |
| October | No. | | |
| November | | | |
| December | 24.921 | 24.360 | |



December 05, 2017

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/16/17 10:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. 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/ga/lab-accred-certif.htm.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager





ETZ WATER STATION

Project: SCHUBERT

Reported:

PO BOX 6056

Project Number: FARMS #1

05-Dec-17 14:36

HOBBS NM, 88241

Project Manager: BEN DONAHUE

Fax To:

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|-----------------|-----------------|
| BRINE WATER | H703207-01 | Water | 16-Nov-17 09:00 | 16-Nov-17 10:22 |
| MONITOR WELL | H703207-02 | Water | 16-Nov-17 09:00 | 16-Nov-17 10:22 |
| FRESH WATER | H703207-03 | Water | 16-Nov-17 09:00 | 16-Nov-17 10:22 |

Cardinal Laboratories

*=Accredited Analyte

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ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: FARMS #1

Project Number: FARMS #1
Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

BRINE WATER

H703207-01 (Water)

| Analyte | Result | MDL | Reporting Lunit | Units | Dilution | Batch | Analyst | Analyzed | Method | Nutes |
|-----------------------------|--------------|-----|--------------------|--------------|----------|------------------|---------|-----------|-----------|-------|
| | | | Cardin | nal Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 476 | | 5.00 | mg/L | I | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/U | ī | 7110 70 5 | AC | 17-Nov-17 | 310.1 | |
| Chloride* | 162000 | | 4.00 | mg/L | 1 | 7112001 | AC | 20-Nov-17 | 4500+C1-B | |
| Conductivity* | 475000 | | 1.00 | uS/cm | 1 | 7111701 | AC | 17-Nov-17 | 120.1 | |
| pH* | 6.96 | | 0.100 | pH Units | i | 7111701 | AC | 16-Nov-17 | 150.1 | |
| Sulfate* | 6580 | | 833 | mg/L | 83.3 | 7112201 | AC | 22-Nov-17 | 375.4 | |
| TDS* | 266000 | | 5.00 | mg/I | 1 | 7111608 | ΔC | 17-Nov-17 | 169,1 | |
| Alkalinity, Total* | 390 | | 4.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| | | | Green Ana | lytical Labo | ratories | | | | | |
| Total Recoverable Metals by | ICP (E200.7) | | | | | | | | | |
| Calcium* | 844 | | 1.00 | mg/l | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |
| Magnesium* | 455 | | 1.00 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |
| Potassium* | 1420 | | 10.0 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |
| Sodium* | 91100 | | 200 | mg/L | 200 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |

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Carry Hacking .



ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241

Potassium*

Sodium*

Project: SCHUBERT

Project Number: FARMS #1

Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

MONITOR WELL

H703207-02 (Water)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-----------------------------|--------------|-----|--------------------|---------------|----------|---------|---------|--------------|----------|-------|
| | | | Cardin | ıal Laborate | ortes | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 327 | | 5.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | i | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Chloride* | 356 | | 4.00 | mg/L | 1 | 7112001 | ٩C | 20-Nov-17 | 4500-CLB | |
| Conductivity* | 1790 | | 1.00 | uS/cm | 1 | 7111701 | AC | 17-Nov-17 | 120 1 | |
| p(T* | 7.60 | | 0.100 | pH Units | 1 | 7111701 | AC | 16-Nov-17 | 150.1 | |
| Sulfate* | 264 | | 50.0 | mg/L | 5 | 7112201 | ΛC | 22-Nov-17 | 375.4 | |
| TDS* | 1180 | | 5.00 | mg/L | 1 | 7111608 | AC | 17-Nov-17 | 160.1 | |
| Alkalinity, Total* | 268 | | 4.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| | | | Green Ana | ilytical Labo | ratories | | | | | |
| Total Recoverable Metals by | ICP (E200,7) | | | | | <u></u> | | | | |
| Calcium* | 171 | | 1.00 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200 7 | |
| Magnesium* | 45.3 | | 1.00 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |

mg/L

mgA.

10

10

B711206

B711206

ЮA

JDA

29-Nov-17

29-Nov-17

EPA200.7

EPA200.7

10.0

10.0

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ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1
Project Manager: BEN DONAHUE

Fax To:

Reported: 05-Dec-17 14:36

FRESH WATER

H703207-03 (Water)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-----------------------------|--------------|-----|--------------------|--------------|-----------|---------|---------|-----------|-----------|-------|
| | - | | Cardin | ıal Laborat | ories | · · | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 283 | | 5.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Chloride* | 224 | | 4.00 | mg/L | 1 | 7112001 | AC | 20-Nov-17 | 4500-CI-B | |
| Conductivity* | 1420 | | 1.00 | uS/cm | 1 | 7111701 | AC | 17-Nov-17 | 120.1 | |
| pH* | 7.98 | | 0.100 | pH Units | 1 | 7111701 | 4C | 16-Nov-17 | 150.1 | |
| Sulfate* | 195 | | 25.0 | mg/L | 2.5 | 7112201 | AC | 22-Nov-17 | 375.4 | |
| TDS* | 896 | | 5.00 | mg/L | 1 | 7111608 | AC | 17-Nov-17 | 160.1 | |
| Alkalinity, Total* | 232 | | 4.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| | | | Green Ana | lytical Labo | oratories | | | | | |
| Total Recoverable Metals by | ICP (E200.7) | | | | | | | | | |
| Calcium* | 119 | _ | 5.00 | mg/L | 50 | B711172 | JDA | 22-Nov-17 | EPA200.7 | |
| Magnesium* | 25.6 | | 5.00 | mgL | 50 | B711172 | JDA | 22-Nov-17 | EPA200.7 | |
| Potassium* | <50.0 | | 50.0 | mg/L | 50 | B711172 | JDA | 22-Nov-17 | EPA200.7 | |
| Sodium* | 130 | | 50.0 | mg/L | 50 | B711172 | JDA | 22-Nov-17 | EPA200.7 | |

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Celegit time -

Celey D. Keene, Lab Director/Quality Manager



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: FARMS #1

Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---|--------|--------------|----------|-------------|-------------|-------------|----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7110705 - General Prep - Wet Chem | | | | · | | | | | | |
| Blank (7110705-BLK1) | | | | Prepared & | Analyzed: | 07-Nov-17 | | | | |
| Alkalinity, Carbonate | ND | 1.00 | mgL | | | | | | | |
| Alkalinity, Bicarbonate | 5.00 | 5.00 | mg/L | | | | | | | |
| Alkalinity, Total | 4.00 | 4.00 | mg/I. | | | | | | | |
| LCS (7110705-BS1) | | | | Prepared & | : Analyzed: | 07-Nov-17 | , | | | |
| Alkalinity, Carbonate | ND | 2.50 | mg/L | | | | 80-120 | | | |
| Alkalinity, Bicarbonate | 330 | 12.5 | mg/L | | | | 80-120 | | | |
| Alkalimity, Total | 270 | 10.0 | mg/L | 250 | | 108 | 80-120 | | | |
| LCS Dup (7110705-BSD1) | | | | Prepared & | Analyzed: | 07-Nov-17 | , | | | |
| Alkalinity, Carbonate | ND | 2,50 | mg/L | | | | 80-120 | | 20 | ,,- |
| Alkalinity, Bicarbonate | 355 | 12.5 | mg/L | | | | 80-120 | 7.30 | 20 | |
| Alkalinity, Total | 290 | 10.0 | mg/L | 250 | | 116 | 80-120 | 7,14 | 20 | |
| Batch 7111608 - Filtration | | | | | | | | | | |
| Blank (71[1608-BLK1) | | | | Prepared: I | 6-Nov-17 | Analyzed: 1 | 7-Nov-17 | | | |
| TDS | ND | 5.00 | mg/L | | | | | | | |
| LCS (7111608-BS1) | | | | Prepared: 1 | 6-Nov-17 | Analyzed: 1 | 7-Nov-17 | | | |
| TDS | 228 | 5.00 | mg/L | 213 | | 107 | 80-120 | | | |
| Duplicate (7111608-DUP1) | Sou | rce: H703199 | -01 | Prepared: 1 | 6-Nov-17 | Analyzed: 1 | 7-Nov-17 | | | |
| TDS | 9630 | 5.00 | mg/L | | 9890 | | | 2.64 | 20 | |
| Batch 7111701 - General Prep - Wet Chem | | | | | | | | | | |
| LCS (7111701-BS1) | | | | Prepared: 1 | 6-Nov-17 | Analyzed: 1 | 7-Nov-17 | | | |
| Conductivity | 507 | | uS/cm | 500 | | 101 | 80-120 | | | |
| ь Н | 6.97 | | pH Units | 7.00 | | 99.6 | 90-110 | | | |

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Reported:

05-Dec-17 14:36



Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1

Project Manager: BEN DONAHUE

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

| | + | | | | | | | | | |
|---|-----------|---------------------------------------|----------|----------------|------------------|-------------|----------------|-------|---------------|-------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7111701 - General Prep - Wet Chem | | | | | | | | | | |
| Duplicate (7111701-DUP1) | Sour | rce: H703206 | -01 | Prenared: | 6-Nov-17 | Analyzed: 1 | 7-Nov-17 | | · | |
| Conductivity | 501000 | 1.00 | uS/cm | | 494000 | | | | 20 | |
| p#1 | 7.07 | 0 100 | pH Units | | 7.06 | | | 0.142 | 20 | |
| Batch 7112001 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (7112001-BLK1) | | | | Prepared & | Analyzed: | 20-Nov-17 | | | | |
| Chloride | ND | 4.00 | mg·L | | | | | | | |
| LCS (7112001-BS1) | | | | Prepared & | Analyzed. | 20-Nov-17 | | | | |
| Chloride | 100 | 4.00 | mg/L | 100 | | 100 | 80-120 | | | |
| LCS Dup (7112001-BSD1) | | | | Prepared & | Analyzed: | 20-Nov-17 | | | | |
| Chloride | ţii0 | 4,00 | mg/L | 100 | | 100 | 80-120 | 6,00 | 20 | |
| Batch 7112201 - General Prep - Wet Chem | · -, -, - | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| Blank (7112201-BLK1) | | | | Prepared & | : Analyzed: | 22-Nov-17 | | | | |
| Sulfate | ND | 10.0 | mg/L | | | | | | | |
| LCS (7112201-BS1) | | | | Prepared & | Analyzed. | 22-Nov-17 | | | | |
| Sulfate | 23.2 | 10.0 | mg/L | 20.0 | | 116 | 80-120 | • | | |
| LCS Dup (7112201-BSD1) | | | | Prepared & | Analyzed: | 22-Nov-17 | | | | |
| Sulfate | 23.6 | 10.0 | mg/L | 20.0 | | 118 | 80-120 | 1.79 | 20 | |

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ETZ WATER STATION PO BOX 6056

Project: SCHUBERT

Reported: 05-Dec-17 14:36

HOBBS NM, 88241

Project Number: FARMS #1

Project Manager: BEN DONAHUE

Fax To:

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

| | | Reporting | | Spike | Source | | %KEC | 200 | KPD | |
|--------------------------------------|-----------|-----------|-------|-------------|-------------|-------------|----------|--------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch B711172 - Total Rec. 200.7/200 | 0,8/200.2 | | | | | | | | | |
| Blank (B711172-BLK!) | | | | Prepared: 2 | 20-Nov-17/ | Analyzed. 2 | 2-Nov-17 | | | |
| Sodium | ND | 1.00 | mg/L | | | | | | | |
| Magnesium | ND | 0,100 | mg/L | | | | | | | |
| Calcium | ND | 0.100 | mg/L | | | | | | | |
| otassium | ND | 1.00 | mg/L | | | | | | | |
| LCS (R711172-BS1) | | | | Prepared 3 | 20-Nov-17 a | Analyzed, 2 | 2-Nov-17 | | | |
| Magnesium | 20,8 | 0,100 | mg/L | 20,0 | | 104 | 85-115 | | | |
| Calerum | 1,23 | 0.100 | nig.L | 4.60 | | 100 | 85-115 | | | |
| Sodium | 6.68 | 1 00 | mg/L | 6.48 | | 103 | 85-115 | | | |
| ² บเลธิ์สันเท | 8.67 | 1.00 | mg/L | 8.00 | | 101 | 85-115 | | | |
| CS Dup (B711172-BSD1) | | | | Prepared: 2 | 20-Nov-17 A | Analyzed: 2 | 2-Nov-17 | | | |
| Magnesium | 20.8 | 0.100 | աբե | 20.0 | | 104 | B5-115 | 0.0742 | 20 | |
| Potassium | 8.22 | 1.00 | mg/L | 8.00 | | 103 | 85-115 | 1 77 | 20 | |
| Calcium | 4.24 | 0.100 | mg/L | 4.00 | | 106 | 85-115 | 0.215 | 20 | |
| Sodium | 6.66 | 1.00 | mg/L | 6.48 | | 103 | 85-115 | 0.224 | 20 | |
| Batch B711206 - Total Rec. 200.7/200 | 0.8/200.2 | | | | | | | | | |
| Blank (B711206-BLK1) | | | | Prepared: 2 | 27-Nov-17 / | Analyzed: 2 | 9-Nov-17 | | | |
| Calcium | 80 | 0.100 | mp I. | | | | | | | |
| Sodium | ND | 1.00 | mg/L | | | | | | | |
| Magnesium | N'D | 0.100 | my I. | | | | | | | |
| Potassium | ND | 1,00 | mg/L | | | | | | | |
| LCS (B711206-BS1) | | | | Prepared: 2 | 27-Nov-17 / | Analyzed: 2 | 9-Nov-17 | | | |
| Magnesium | 20.7 | 0,100 | mg/L | 20.0 | | 104 | 85-115 | | | |
| Potassium | 8 35 | 1.00 | mg/L | 8.00 | | 104 | 85-115 | | | |
| Calcium | 4.15 | 0.100 | mg/L | 4.00 | | 104 | 85-115 | | | |
| Sodium | 6.64 | 1.00 | mg∙L | 6.48 | | 102 | 85-115 | | | |

Cardinal Laboratories

*-Accredited Analyte

PLEASE NOTE: Jiability and Damages. Cardina's basiley and dienc's exclusive temely for any claim ansing, whether based in combact or tort, shall be limited to the amount build by client for analysis. All claims, including those for neighborise and en, utilize the second members about the desired waves which made it returns an expect by Carolinal members with the second members are supported to the performance of the services hereavider by Carolinal members of which is a subscription, without a support of the performance of the services hereavider by Carolinal, regardless or whichers we successions arising out of or related to the performance of the services hereavider by Carolinal, regardless or whichers we successions arising out of or related to the performance of the services hereavider by Carolinal, regardless or whichers we are a finished and a service of the services hereavider by Carolinal, regardless or whichers we are a finished and a service of the services hereavider by Carolinal, regardless or whichers we are a finished and a service of the services hereavider by Carolinal, regardless or whichers we are a finished and a service of the services hereavider by Carolinal, regardless or whichers we are a finished and a service of the services hereavider by Carolinal, regardless or whichers we are a finished and a service of the services hereavider by Carolinal, regardless or whichers we are a finished and a service of the services hereavider by Carolinal, regardless or whichers we are a finished and a service of the services hereavider by Carolinal, regardless or whichers are a finished and a service of the services hereavider by Carolinal, regardless or whichers are a supplications of the services hereavider by Carolinal and a service of the services hereavider by Carolinal and a service of the services hereavider by Carolinal and a service of the services hereavider by Carolinal and a service of the services hereavider by Carolinal and a service of the services hereavider by Carolinal and a service of the services are a service of the services are a service of the services and a service of the services are a service of the serv

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

Analytical Results For:

ETZ WATER STATION

Project: SCHUBERT

Reported:

PO BOX 6056

Project Number: FARMS #1

05-Dec-17 14:36

HOBBS NM, 88241

Project Manager: BEN DONAHUE

Fax To:

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|--------|-----------|---------|-------------|------------|-------------|----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch B711206 - Total Rec. 200.7/200.8/200.2 | · | | <u></u> | | | . <u></u> | | | | |
| LCS Dup (B711206-BSD1) | | | | Prepared: 2 | 27-Nov-177 | Analyzed: 2 | 9-Nov-17 | | | |
| Potassium | 8 07 | 1 00 | mg/L | 8.00 | | 101 | 85-115 | 3,36 | 20 | |
| Magnesium | 20 0 | 0.100 | mg/L | 20.0 | | 100 | 85-115 | 3.34 | 20 | |
| Sodinm | 6.43 | 1.00 | mg/L | 6.48 | | 99.2 | 85-115 | 3.28 | 20 | |
| Calcium | 3.99 | 0.100 | mg/I. | 4.00 | | 99.7 | 85-115 | 4.11 | 20 | |

Cardinal Laboratories *-Accredited Analyte

PLEASE MOTE: Liability and Damages. Cardinul's Bability and cleams, exclusive temody for any dalim arising, whether based in contract or tort, shall be limited to the amount paid by clear for analyses. All claims, including those for negligence of any outs cause uniconsume shall be desired aware uniconsumes. In as early blad Cardinul, the lipide is imported in consumer or approximately weighted, were uniformly because the responsibility of the contract of the services because the responsibility of the contract of the services because the contract of the performance of the services because the perfor

Celeg & Areune

Celey D. Keene, Lab Director/Quality Manager



NO

Notes and Definitions

| | The state of the s |
|-----|--|
| RPO | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature, |
| - | Chloride by SM4500CF6 does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*-Accredited Analyte

REASE NOTE: Liability and Damages. Cardana's liability and client's evolutive remedy for any claim arising, whether based in contract or both shall be shriked to the amount paid by dient for analyses. All claims, including those for registrence at any other contract or both shall be shriked to the amount paid by dient for analyses. All claims, including those for registrence at any other contract paid to dient analyses. It is not contract paid to dient, its analysis included to the performance of the services hereunder by Cardinal, regardless of whether as claims paid upon any of the analysis states, easiers in other was. Plantas claim of the services hereunder by Cardinal, regardless of whether as claims paid upon any of the analysis states, easiers in other was. Plantas claim of the certification of the services hereunder by Cardinal, regardless of whether as claims or paid to the certification of the services hereunder by Cardinal, regardless of whether as claims or paid to the certification of the services hereunder by Cardinal, regardless of whether as claims or paid to the certification of the services hereunder by Cardinal, regardless of whether as claims or paid to the certification of the services hereunder by Cardinal, regardless of whether as claims or paid to the certification of the services hereunder by Cardinal, regardless of whether as claims or paid to the certification of the services hereunder by Cardinal, regardless of whether as claims or paid to the certification of the services hereunder by Cardinal, regardless of whether as claims or paid to the certification of the services hereunder by Cardinal, regardless of whether as contracting the certification of the

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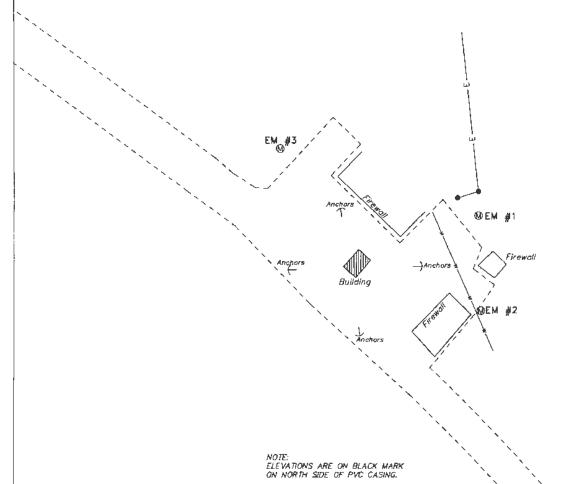
CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Name: CTZ Note State | BILL TO | ANALYSIS REQUEST |
|--|--|-----------------------|
| anager: Ben Denahar | P.O. #: | |
| State: Zip: | Company: | |
| 575 343 3 HY Fax#: | Address: | |
| ame: Scharred Farms & | Zip: | |
| ocation: Name: Den Doneshore | Phone #: | |
| Sample 1.D. Sampl | SOIL MATRIX OUL SAMPLING SOIL OTHER | |
| Labely and Damages. Carthinals, babelty and chemis stackeres remach for any claim annung whether biased in content or shall be farmed to the amount paid by the claim for the modulating those for negligence and enty other cause whetherever shall be deemed unless made in writing and indexhed by Centimal within 30 days after completion of the applicable and be babel for indexequental diseasement are interpreted to the applicable and the babel of inches professional by index its absolute and asset as an activities such claim is based upon any of the above staked respons or otherwise. | for any claim annung whether biased in conteact or four sheaf be furnised to the amount paid by the clear for the be described writerd unless made in writing and indexhead by Cendinal within 30 days after completion of the applicable and without finishing interpretation. But a least, in the last profits extend by clear, it is about about the by Cardinal imperiess of whether such claims is based upon onry of the above staked responsive otherwise. | |
| | Phone Result: Fax Result: REMARKS: A.M. | The standard Phone #: |
| 12441011111111111 | 7. 7. | |

SECTION 25, TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



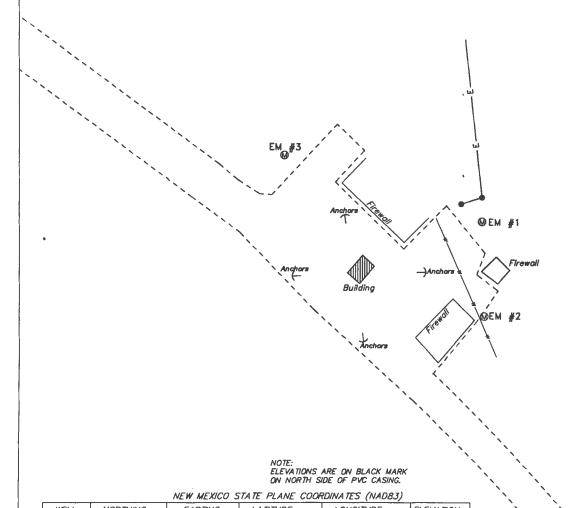
NEW MEXICO STATE PLANE COORDINATES (NAD83)

| | | INE IS MENIOU | STATE FEATE GOOD | FIDITA ILS (MADOS) | <u> </u> |
|------|-------------------|---------------|------------------|--------------------|------------|
| WELL | NORTHING | EASTING | LA TITUDE | LONGITUDE | ELE VATION |
| EM-1 | 597952.32 | 921529.98 | 32'38'15.88" | 103 05 53.79" | 3581.27 |
| EM-2 | 59784 <u>9.72</u> | 921532.48 | 32'38'14.86" | 103705'53.77" | 3581,58 |
| EM-3 | 598024.36 | 921313.69 | 32'38'16.62" | 103'05'56.30" | 3582.37 |

| | REVISION # | DATE | DESCRIPTION |
|---|------------|------------------|----------------------------------|
| | 1 | MAY 11, 2017 | ORIGINAL SURVEY |
| ĺ | 2 | AUGUST 30, 2017 | RESURVEY-NO CHANGE IN ELEVATIONS |
| | 3 | JANUARY 10, 2018 | RESURVEY-NO CHANGE IN ELEVATIONS |



SECTION 25, TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.

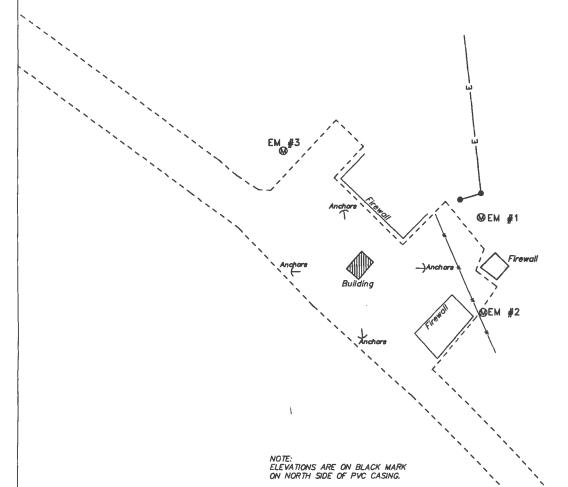


| WELL | NURTHING | EASTING | LATITODE | LONGITUDE | ELEVATION |
|------|-----------|-----------|--------------|---------------|-----------|
| EM-1 | 597952.32 | 921529.98 | 32'38'15.88" | 103'05'53.79" | 3581.27 |
| EM-2 | 597849.72 | 921532.48 | 32'38'14.86" | 103°05′53.77" | 3581.58 |
| EM-3 | 598024.36 | 921313.69 | 32'38'16.62" | 103 05 56.30" | 3582.37 |

| REVISION # | DATE | DESCRIPTION |
|------------|------------------|----------------------------------|
| 1 | MAY 11, 2017 | ORIGINAL SURVEY |
| 2 | AUGUST 30, 2017 | RESURVEY-NO CHANGE IN ELEVATIONS |
| 3 | JANUARY 10, 2018 | RESURVEY-NO CHANGE IN ELEVATIONS |
| 4 | MAY 1, 2018 | RESURVEY-NO CHANGE IN ELEVATIONS |



SECTION 25, TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



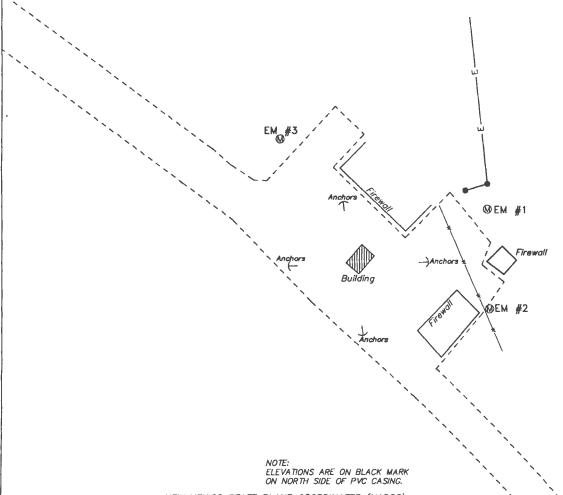
NEW MEXICO STATE PLANE COORDINATES (NAD83)

| WELL | NORTHING | EASTING | LATITUDE | LONGITUDE | ELE VA TION |
|------|-----------|-----------|--------------|---------------|-------------|
| EM-1 | 597952.32 | 921529.98 | 32'38'15.88" | 103'05'53.79" | 3581.27 |
| EM-2 | 597849.72 | 921532.48 | 32'38'14.86" | 103'05'53.77" | 3581.58 |
| EM-3 | 598024.36 | 921313.69 | 32'38'16.62" | 103°05'56.30" | 3582.37 |

| REVISION # | DATE | DESCRIPTION |
|------------|-------------------|----------------------------------|
| 1 | MAY 11, 2017 | ORIGINAL SURVEY |
| 2 | AUGUST 30, 2017 | RESURVEY-NO CHANGE IN ELEVATIONS |
| 3 | JANUARY 10, 2018 | RESURVEY-NO CHANGE IN ELEVATIONS |
| 4 | MAY 1, 2018 | RESURVEY-NO CHANGE IN ELEVATIONS |
| 5 | SEPTEMBER 5, 2018 | RESURVEY-NO CHANGE IN ELEVATIONS |



SECTION 25, TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M., LEA COUNTY,



NEW MEXICO STATE PLANE COORDINATES (NAD83)

| | | IVEW MEXICO | STATE TEATLE COL | MUNICI (NADOS) | <i>,</i> |
|------|-----------|-------------|------------------|----------------|-----------|
| WELL | NOR THING | EASTING | LA TITUDE | LONGITUDE | ELEVATION |
| EM-1 | 597952.32 | 921529.98 | 32*38*15.88* | 103°05'53.79" | 3581.27 |
| EM-2 | 597849.72 | 921532.48 | 32'38'14.86" | 103°05'53.77" | 3581.58 |
| EM-3 | 598024.36 | 921313.69 | 32'38'16.62" | 103°05'56.30" | 3582.37 |

| REVISION # | DATE | DESCRIPTION |
|------------|-------------------|----------------------------------|
| 1 | MAY 11, 2017 | ORIGINAL SURVEY |
| 2 | AUGUST 30, 2017 | RESURVEY-NO CHANGE IN ELEVATIONS |
| 3 | JANUARY 10, 2018 | RESURVEY-NO CHANGE IN ELEVATIONS |
| 4 | MAY 1, 2018 | RESURVEY-NO CHANGE IN ELEVATIONS |
| 5 | SEPTEMBER 5, 2018 | RESURVEY-NO CHANGE IN ELEVATIONS |
| 6 | JANUARY 15, 2019 | RESURVEY-NO CHANGE IN ELEVATIONS |



Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Thursday, January 4, 2018 10:37 AM

'Gary Schubert' To:

Griswold, Jim, EMNRD Cc:

BWs 31 and 36 Annual Reports **Subject:**

Gary:

Good morning. The New Mexico Oil Conservation Division (OCD) has completed its review of the above subject Annual Reports.

Regarding injection and production data, HRC, Inc. also needs to include injection well pressure data or information. Does HRC have an explanation for the relative percent difference in injection vol. (lower vol.) vs. production (higher vol.) exceeding 10%?

Regarding the subsidence well monitoring survey submittal, HRC, Inc. also needs to include information on the elevation transect with close-out elevation for every survey, which demonstrates the accuracy of every survey is required. The table of actual monument elevations per well over time to the nearest 0.01 ft. should definitely be provided. A graph of each monument survey elevation from the table is recommended, but optional, and will assist the operator in providing the data necessary to substantiate request for a reduction in the frequency of surveys in the future.

Regarding the lack of MIT information, HRC, Inc. also needs to provide any MIT information conducted over the year.

Please take some time to review the annual report criteria, and provide a response and/or information requested above to the OCD within 60-days from the date of this message.

Please contact me if you have questions. Thank you.

Mr. Carl J. Chavez, CHMM (#13099) New Mexico Oil Conservation Division Energy Minerals and Natural Resources Department 1220 South St Francis Drive Santa Fe, New Mexico 87505

Ph. (505) 476-3490

E-mail: CarlJ.Chavez@state.nm.us

"Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?" (To see how, go to: http://www.emnrd.state.nm.us/OCD and see "Publications")

HRC, INC.

P. O. Box 5102 Hobbs, NM 88241-5102 Phone # (575) 393-6662 2017 OEC 27 P 3: 10 Fax # (575) 393-6662

RECEIVED OCD

December 05, 2017

Jim Griswold Senior Hydrologist **ENMRD/Oil Conservation Division** 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Ref: 2017 Annual Report

Schubert Farms No. 1 (API # 30-025-37548) (BW-36)

Dear Mr. Griswold,

Enclosed please find the monthly freshwater injection and brine production numbers for the Hobbs facility for the year of 2017. Included also are Cardinal Laboratories' results of analyses for samples for the month of April and November, 2017.

Thank you,

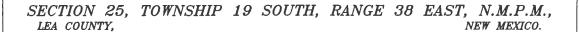
Sincerely,

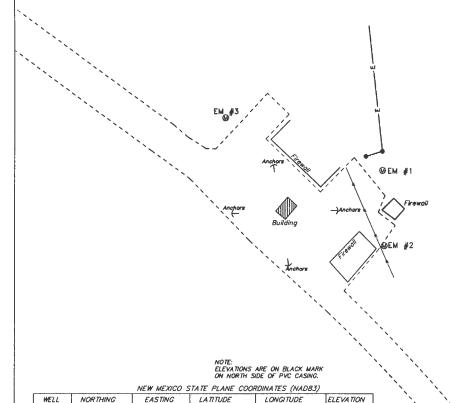
Gary M. Schubert

Schubert Farms Well No. 1

Year 2017

| MONTH | BRINE PRODUCTION | FRESH WATER INJECTED | |
|-----------|---------------------|----------------------|--|
| | (BY Meter) | (By Meter) | |
| January | 0 | 0 | |
| February | 0 | 0 | |
| March | 13,011 | 12,833 | |
| April | 5,636 | 5,238 | |
| May | 11,060 | 10,143 | |
| June | 9,831 | 9,902 | |
| July | 14,400 | 14,362 | |
| August | 11,962 | 10,340 | |
| September | 20,945 | 21,183 | |
| October | 21.988 | 20,795 | |
| November | 19,764 | 19,522 | |
| December | | | |





| REVISION # | DATE | DESCRIPTION |
|------------|----------------|--------------------------------|
| 1 | MAY 11, 2017 | ORIGINAL SURVEY |
| 2 | AUGUST TO COLT | DECUREY NO CHANCE OF FLENATORE |

32'38'15.88'

32'38'14.86"

32'38'16.62"

103'05'53.79"

10305'53.77'

103°05'56.30'

3581.27

3581.58

3582.37

921529.98

921532.48

921313.69

597952.32

597849.72

598024.36

EM-1

EM-3



BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 33294 Drawn By: **K. GOAD**

100 100 200 FEET SCALE: 1" = 100'

H.R.C. INC.

ELEVATION MARKERS REF:

> ELEVATION MARKERS LOCATED IN SECTION 25, TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.

Date: 09-15-2017 Disk: KJG - SCHUBERT FARMS 33294 Survey Date: 08-30-2017 Sheet 1 of 1 Sheets



May 04, 2017

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT FARMS

Enclosed are the results of analyses for samples received by the laboratory on 04/20/17 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celeg Li Kreene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



Project Manager: BEN DONAHUE

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS
Project Number: NONE GIVEN

04-May-17 14:52

Reported:

Fax To:

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|-----------------|-----------------|
| FRESH WATER | H701043-01 | Water | 20-Apr-17 08:00 | 20-Apr-17 12:00 |
| BRINE WATER | H701043-02 | Water | 20-Apr-17 08:00 | 20-Apr-17 12:00 |
| MONITOR WELL | H701043-03 | Water | 20-Apr-17 08:00 | 20-Apr-17 12:00 |

Cardinal Laboratories

*=Accredited Analyte

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ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS

Project Number: NONE GIVEN
Project Manager: BEN DONAHUE

Fax To:

Reported:

04-May-17 14:52

FRESH WATER H701043-01 (Water)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-----------------------------|--------------|-----|--------------------|--------------|-----------|---------|---------|-----------|-----------|-------|
| | | | Cardin | nal Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 244 | | 5.00 | mg/L | 1 | 7041918 | AC | 24-Apr-17 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 7041918 | AC | 24-Apr-17 | 310.1 | |
| Chloride* | 510 | | 4.00 | mg/L | 1 | 7042103 | AC | 25-Apr-17 | 4500-CI-B | |
| Conductivity* | 2710 | | 1.00 | uS/cm | ł | 7042105 | AC | 21-Арг-17 | 120.1 | |
| pH* | 7.32 | | 0.100 | pH Units | 1 | 7042007 | AC | 20-Apr-17 | 150.1 | |
| Sulfate* | 579 | | 125 | mg/L | 12.5 | 7042613 | AC | 26-Apr-17 | 375.4 | QM-07 |
| TDS* | 1870 | | 5.00 | mg/L | 1 | 7042114 | AC | 25-Apr-17 | 160.1 | |
| Alkalinity, Total* | 200 | | 4.00 | mg/L | i | 7041918 | AC | 24-Apr-17 | 310.1 | |
| | | | Green Ana | ilytical Lab | oratories | | | | | |
| Total Recoverable Metals by | ICP (E200.7) | | | | | | | | | |
| Calcium* | 254 | | 0.100 | mg/L | 1 | B704200 | JDA | 01-May-17 | EPA200.7 | |
| Magnesium* | 86.9 | | 0.100 | mg/L | 1 | B704200 | JDA | 01-May-17 | EPA200.7 | |
| Potassium* | 7.62 | | 1.00 | mg/L | 1 | B704200 | JDA | 01-May-17 | EPA200.7 | |
| Sodium* | 228 | | 1.00 | mg/L | 1 | B704200 | JDA | 01-May-17 | EPA200.7 | |
| | | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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City Zatema



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS
Project Number: NONE GIVEN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

BRINE WATER H701043-02 (Water)

| Analyte | Result | Report MDL Limi | ing t Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-----------------------------|--------------|--------------------|----------------|-----------|---------|---------|-----------|-----------|-------|
| | | Ca | rdinal Labora | tories | | | | | |
| Inorganic Compounds | | | | | | | | | |
| Alkalinity, Bicarbonate | 268 | 5.00 | mg/L | 1 | 7041918 | AC | 24-Apr-17 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | 1.00 | mg/L | 1 | 7041918 | AC | 24-Apr-17 | 310.1 | |
| Chloride* | 122000 | 4.00 | mg/L | 1 | 7042103 | AC | 25-Apr-17 | 4500-CI-B | |
| Conductivity* | 357000 | 1.00 | uS/cm | 1 | 7042105 | AC | 21-Apr-17 | 120.1 | |
| pH* | 6.85 | 0.10 | 0 pH Units | 1 | 7042007 | AC | 20-Apr-17 | 150.1 | |
| Sulfate* | 4430 | 833 | mg/L | 83.3 | 7042613 | AC | 26-Apr-17 | 375.4 | |
| TDS* | 198000 | 5.00 |) mg/L | 1 | 7042114 | AC | 25-Apr-17 | 160.1 | |
| Alkalinity, Total* | 220 | 4.00 |) mg/L | 1 | 7041918 | AC | 24-Apr-17 | 310.1 | |
| | | Green | Analytical Lat | oratories | | | | | |
| Total Recoverable Metals by | ICP (E200.7) | | | | | | | | |
| Calcium* | 920 | 10.0 |) mg/L | 100 | B704200 | JDA | 01-May-17 | EPA200.7 | |
| Magnesium* | 524 | 10.0 |) mg/L | 100 | B704200 | JDA | 01-May-17 | EPA200.7 | |
| Potassium* | 950 | 100 | mg/L | 100 | B704200 | JDA | 01-May-17 | EPA200.7 | |
| Sodium* | 80100 | 100 | mg/L | 100 | B704200 | JDA | 01-May-17 | EPA200.7 | |

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Celey & Kreene



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS

Project Number: NONE GIVEN
Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

MONITOR WELL H701043-03 (Water)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-----------------------------|--------------|-----|--------------------|--------------|-----------|---------|---------|-----------|-----------|-------|
| | | | Cardin | al Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 244 | | 5.00 | mg/L | 1 | 7041918 | AC | 24-Apr-17 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 7041918 | AC | 24-Apr-17 | 310.1 | |
| Chloride* | 316 | | 4 00 | mg/L | 1 | 7042103 | AC | 25-Apr-17 | 4500•C1•B | |
| Conductivity* | 1700 | | 1.00 | uS/cm | 1 | 7042105 | AC | 21-Apr-17 | 120.1 | |
| pH* | 7.58 | | 0.100 | pH Units | 1 | 7042007 | AC | 20-Apr-17 | 150.1 | |
| Sulfate* | 221 | | 50.0 | mg/L | 5 | 7042613 | AC | 26-Apr-17 | 375 4 | |
| TDS* | 1090 | | 5 00 | mg/L | 1 | 7042114 | AC | 25-Apr-17 | 1.001 | |
| Alkalinity, Total* | 200 | | 4.00 | mg/I. | 1 | 7041918 | ΛC | 24-Apr-17 | 310,1 | |
| | | | Green Ana | lytical Labo | oratories | | | | | |
| Total Recoverable Metals by | ICP (E200.7) | | | | | | | | | |
| Calcium* | 161 | | 2.00 | mg/L | 20 | B704200 | JDA | 01-May-17 | EPA200.7 | |
| Magnesium* | 46.3 | | 2.00 | mg/L | 20 | B704200 | JDA | 01-May-17 | EPA200.7 | |
| Potassium* | <20.0 | | 20.0 | mg/L | 20 | B704200 | JDA | 01-May-17 | EPA200,7 | |
| Sodium* | 131 | | 20.0 | mg/L | 20 | B704200 | JDA | 01-May-17 | EPA200.7 | |

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Clay France



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

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS
Project Number: NONE GIVEN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

Inorganic Compounds - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | . Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|----------|----------------|------------------|-----------|----------------|-------|--------------|-------|
| Batch 7041918 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (7041918-BLK1) | | | | Prepared & | k Analyzed: | 19-Apr-17 | | | | |
| Alkalinity, Carbonate | ND | 1.00 | mg/L | | | | | | | |
| Alkalinity, Bicarbonate | 10.0 | 5.00 | mg/L | | | | | | | |
| Alkalinity, Total | 8.00 | 4.00 | mg/L | | | | | | | |
| LCS (7041918-BS1) | | | | Prepared & | Analyzed: | 19-Арг-17 | | | | |
| Alkalinity, Carbonate | ND | 1.00 | mg/L | | | | 80-120 | | | |
| Alkalinity, Bicarbonate | 132 | 5.00 | mg/L | | | | 80-120 | | | |
| Alkalinity, Total | 108 | 4.00 | mg/L | 100 | | 108 | 80-120 | | | |
| LCS Dup (7041918-BSD1) | | | | Prepared & | k Analyzed: | 19-Apr-17 | | | | |
| Alkalinity, Carbonate | ND | 1.00 | mg/L | | | | 80-120 | | 20 | |
| Alkalinity, Bicarbonate | 127 | 5.00 | mg/L | | | | 80-120 | 3,86 | 20 | |
| Alkalinity, Total | 104 | 4.00 | mg/L | 100 | | 104 | 80-120 | 3.77 | 20 | |
| Batch 7042007 - General Prep - Wet Chem | | | | | | | | | | |
| LCS (7042907-BS1) | | | | Prepared & | k Analyzed: | 20-Apr-17 | | | | |
| рН | 7.23 | | pH Units | 7.00 | | 103 | 90-110 | | | |
| Duplicate (7042007-DUP1) | Sou | rce: H701041 | -04 | Prepared & | k Analyzed: | 20-Apr-17 | | | 2.0 | |
| pH | 7.83 | 0.100 | pH Units | | 7.82 | | | 0.128 | 20 | |
| Batch 7042103 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (7042103-BLK1) | | | | Prepared & | k Analyzed: | 21-Apr-17 | | | | |
| Chloride | ND | 4.00 | mg/L | | | | | | | |

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any other cause whitistoners shall be deemed waited unless made in writing and recalved by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage
including, without limitation, unlesses interruptions, loss of or use, or loss of profits incurred by client, includings, without limitations or excessions arising out of or included to the performance of the services hereunder by Cardinal, repardless of whether su
clinian is beased upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal suboratories.

Celey D. Kenne



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

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS
Project Number: NONE GIVEN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

Inorganic Compounds - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC | DDD | RPD Limit | Net |
|---|--------|--------------------|-------|----------------|------------------|-------------|----------|-------|--------------|-------|
| Analyte | Resuit | Limit | Units | Level | Kesuit | 7eREC | Limits | RPD | Limir | Notes |
| Batch 7042103 - General Prep - Wet Chem | | | | | | | | | | |
| LCS (7042103-BS1) | | | | Prepared & | Analyzed: | 21-Apr-17 | | | | |
| Chloride | 104 | 4.00 | mg/L | 100 | | 104 | 80-120 | | | |
| LCS Dup (7042103-BSD1) | | | | Prepared & | Analyzed: | 21-Apr-17 | | | | |
| Chloride | 100 | 4.00 | mg/L | 100 | | 100 | 80-120 | 3.92 | 20 | |
| Batch 7042105 - General Prep - Wet Chem | | | | | | | | | | |
| LCS (7042105-BS1) | | | | Prepared & | Analyzed: | 21-Apr-17 | | | | |
| Conductivity | 498 | | uS/cm | 500 | | 99.6 | 80-120 | | | |
| Duplicate (7042105-DUP1) | Son | rce: H701041 | -01 | Prepared & | k Analyzed: | 21-Apr-17 | | | | |
| Conductivity | 707 | 1.00 | uS/cm | | 703 | | | 0.567 | 20 | |
| Batch 7042114 - Filtration | | | | | | | | | | |
| Blank (7042114-BLK1) | | | | Prepared: | 21-Apr-17 A | nalyzed: 2 | 7-Apr-17 | | | |
| TDS | ND | 5.00 | mg/L | | | | | | | |
| LCS (7042114-BS1) | | | | Prepared: | 21-Apr-17 A | Analyzed: 2 | 7-Apr-17 | | | |
| TDS | 229 | 5.00 | mg/L | 240 | | 95.4 | 80-120 | | | |
| Duplicate (7042114-DUP1) | Sou | rce: H701021 | -01 | Prepared: | 21-Apr-17 A | nalyzed: 2 | 7-Apr-17 | | | |
| TDS | 2260 | 5.00 | mg/L | • | 2310 | | | 1.84 | 20 | |
| Batch 7042613 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (7042613-BLK1) | | | | Prepared & | ¿ Analyzed: | 26-Apr-17 | | | | |
| Sulfate | ND | 10.0 | mg/L | | | | | | | |

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Celey D. Keine



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS

Project Number: NONE GIVEN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

Inorganic Compounds - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|----------------|------------------|-----------|----------------|------|--------------|-------|
| Batch 7042613 - General Prep - Wet Chem | | | | | | | | | | |
| LCS (7042613-BS1) | | | | Prepared & | Analyzed: | 26-Apr-17 | | | | |
| Sulfate | 20.1 | 10.0 | mg/L | 20.0 | | 101 | 80-120 | | | |
| LCS Dup (7042613-BSD1) | | | | Prepared & | : Analyzed: | 26-Apr-17 | | | | |
| Sulfate | 19.8 | 10.0 | mg/L | 20.0 | | 99.0 | 80-120 | 1.55 | 20 | |

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ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS
Project Number: NONE GIVEN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|--------|-----------|-------|-------------|-------------|------------|----------|--------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch B704200 - Total Rec. 200.7/200.8/200.2 | | | | · | | | | | | |
| Blank (B704200-BLK1) | | | | Prepared: 2 | 8-Арг-17 А | nalyzed: 0 | 1-May-17 | | | |
| Sodium | ND | 1.00 | mg/L | | | | | | | |
| Magnesium | ND | 0.100 | mg/L | | | | | | | |
| Potassium | ND | 1.00 | mg/L | | | | | | | |
| Calcium | ND | 0.100 | mg/L | | | | | | | |
| LCS (B704200-BS1) | | | | Prepared: 2 | 8-Арг-17 А | nalyzed: 0 | 1-May-17 | | | |
| Magnesium | 20.7 | 0.100 | mg/L | 20.0 | | 104 | 85-115 | | | |
| Sodium | 6.81 | 1.00 | mg/L | 6.48 | | 105 | 85-115 | | | |
| Potassium | 8.36 | 1.00 | mg/L | 8.00 | | 104 | 85-115 | | | |
| Calcium | 4.07 | 0.100 | mg/L | 4.00 | | 102 | 85-115 | | | |
| LCS Dup (B704200-BSD1) | | | | Prepared: 2 | 28-Арг-17 А | nalyzed: 0 | 1-May-17 | | | |
| Calcium | 4.07 | 0.100 | mg/L | 4.00 | | 102 | 85-115 | 0.0739 | 20 | |
| Sodium | 6.83 | 1.00 | mg/L | 6.48 | | 105 | 85-115 | 0.275 | 20 | |
| Magnesium | 20.8 | 0.100 | mg/L | 20.0 | | 104 | 85-115 | 0.274 | 20 | |
| Potassium | 8.32 | 1.00 | mg/L | 8.00 | | 104 | 85-115 | 0.396 | 20 | |

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Celey D. Keine



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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CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Nam | 1 Name: ETZ Woder Status | | | | | | | | 9 | DILL TO | 5 | | No | | | | ANA | ANALYSIS | | REQUEST | ST | | | |
|-------------------------------|--|------------------------------|--|------------|----------|--------|----------|-------------|-----------|----------|--|--|--|----------------|----|--|--|--|-----------------------|---------|--|--|------------------------|--|
| geus | lanager: Ben Denehue | | | | | | 0. | P.O. #: | | | | | | | | - | - | | L | _ | | | | - |
| ď | P.O. 5102 | an plant of depresant of the | | | | | Q | Company | any: | | | | | | | | | | | ****** | | | | |
| 100hs | 265 State: NM Zlp: 8824 | 7 24 | a) | 20 | 77 | | < | Attn: | | | | | | | | 2000 | | | | | | | | |
| 7 | 575 343 3194 Fax# | | | | | | 4 | Address: | .5 | | | | | | | | | | | | | | | |
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| ocations | on: | | | | | | 4 | Phone 8: | 46 | | | | | n | | | | | | | | | | |
| Name | Name: Ben Donolue | | | | | | LL. | Fax #: | | | | | | 任 | | - | | | | | | - | | |
| ECHLY | | H | | | M | MATRIX | | PR | PRESERV | L | SAMPLING | ING | | | | | | | | - | | | | |
| G. 2 | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | язтамоиооя | SOIL | JIO | SLUDGE - | ACID/8ASE | OTHER: | | DATE | and an experience of more officer of the following the control of the co | | Moited | 1 | | | | | | | | | |
| - | Fresh water | و | | > | | | | | | | 1/20/17 | 20:35 | 2 | 7 | | - | | | | _ | | | | _ |
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indinal cannot accept verbal changes. Please fax written changes to (575) 393_3326

Sample Condition

-UPS - Bus - Other #15

ed By: (Circle One)

Paboln 12:00 Pa



December 05, 2017

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/16/17 10:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. 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/jab_accred_certif.htmi.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celeg & Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager

Reported:

05-Dec-17 14:36



Analytical Results For:

ETZ WATER STATION

PO BOX 6056

HOBBS NM, 88241

Project: SCHUBERT

Project Number: FARMS #1

Project Manager: BEN DONAHUE

Fax To:

| | *************************************** | | | |
|--------------|---|--------|-----------------|-----------------|
| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
| BRINE WATER | H703207-01 | Water | 16-Nov-17 09:00 | 16-Nov-17 10:22 |
| MONITOR WELL | H703207-02 | Water | 16-Nov-17 09:00 | 16-Nov-17 10:22 |
| FRESH WATER | H703207-03 | Water | 16-Nov-17 09:00 | 16-Nov-17 10:22 |

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ETZ WATER STATION PO BOX 6056

HOBBS NM, 88241

Project: SCHUBERT

Project Number: FARMS #1

Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

BRINE WATER H703207-01 (Water)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-------------------------------|-------------|-----|--------------------|-------------|-----------|---------|---------|-----------|-----------|-------|
| | | | Cardin | nal Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 476 | | 5.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Chloride* | 162000 | | 4.00 | mg/L | 1 | 7112001 | AC | 20-Nov-17 | 4500-CI-B | |
| Conductivity* | 475000 | | 1.00 | uS/cm | 1 | 7111701 | AC | 17-Nov-17 | 120.1 | |
| pH* | 6.96 | | 0.100 | pH Units | 1 | 7111701 | AC | 16-Nov-17 | 150.1 | |
| Sulfate* | 6580 | | 833 | mg/L | 83.3 | 7112201 | AC | 22-Nov-17 | 375.4 | |
| TDS* | 266000 | | 5.00 | mg/L | 1 | 7111608 | AC | 17-Nov-17 | 160.1 | |
| Alkalinity, Total* | 390 | | 4.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| | | | Green Ana | lytical Lab | oratories | | | | | |
| Total Recoverable Metals by I | CP (E200.7) | | | | | | | | | |
| Calcium* | 844 | | 1.00 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |
| Magnesium* | 455 | | 1.00 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |
| Potassium* | 1420 | | 10.0 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |
| Sodium* | 91100 | | 200 | mg/L | 200 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |

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Calley Z. Kina -



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: FARMS #1
Project Manager: BEN DONAHUE

Reported: 05-Dec-17 14:36

Fax To:

MONITOR WELL H703207-02 (Water)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|-----------------------------|--------------|-----|--------------------|-------------|-----------|---------|---------|-----------|-----------|-------|
| | | | Cardin | al Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 327 | | 5.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Chloride* | 356 | | 4.00 | mg/L | 1 | 7112001 | AC | 20-Nov-17 | 4500-CI-B | |
| Conductivity* | 1790 | | 1.00 | uS/cm | 1 | 7111701 | AC | 17-Nov-17 | 120.1 | |
| pH* | 7.60 | | 0.100 | pH Units | 1 | 7111701 | AC | 16-Nov-17 | 150.1 | |
| Sulfate* | 264 | | 50.0 | mg/L | 5 | 7112201 | AC | 22-Nov-17 | 375.4 | |
| TDS* | 1180 | | 5.00 | mg/L | 1 | 7111608 | AC | 17-Nov-17 | 160.1 | |
| Alkalinity, Total* | 268 | | 4.00 | mg/L | l | 7110705 | AC | 17-Nov-17 | 310.1 | |
| | | | Green Ana | lytical Lab | oratories | | | | | |
| Total Recoverable Metals by | ICP (E200.7) | | | | | | | | | |
| Calcium* | 171 | | 1.00 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |
| Magnesium* | 45.3 | | 1.00 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |
| Potassium* | <10.0 | | 10.0 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |
| Sodium* | 125 | | 10.0 | mg/L | 10 | B711206 | JDA | 29-Nov-17 | EPA200.7 | |

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Calley D. Krenz



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1
Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

FRESH WATER H703207-03 (Water)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Nøtes |
|-----------------------------|--------------|-----|--------------------|-------------|-----------|---------|---------|-----------|-----------|-------|
| | | | Cardin | al Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Alkalinity, Bicarbonate | 283 | | 5.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| Chloride* | 224 | | 4.00 | mg/L | 1 | 7112001 | AC | 20-Nov-17 | 4500-CI-B | |
| Conductivity* | 1420 | | 1.00 | uS/cm | 1 | 7111701 | AC | 17-Nov-17 | 120.1 | |
| pH* | 7.98 | | 0.100 | pH Units | 1 | 7111701 | AC | 16-Nov-17 | 150.1 | |
| Sulfate* | 195 | | 25.0 | mg/L | 2.5 | 7112201 | AC | 22-Nov-17 | 375.4 | |
| TDS* | 896 | | 5.00 | mg/L | 1 | 7111608 | AC | 17-Nov-17 | 160.1 | |
| Alkalinity, Total* | 232 | | 4.00 | mg/t. | 1 | 7110705 | AC | 17-Nov-17 | 310.1 | |
| | | | Green Ana | lytical Lab | oratories | | | | | |
| Total Recoverable Metals by | ICP (E200.7) | | | | | | | | | |
| Calcium* | 119 | | 5.00 | mg/L | 50 | B711172 | JDA | 22-Nov-17 | EPA200.7 | |
| Magnesium* | 25.6 | | 5.00 | mg/L | 50 | B711172 | JDA | 22-Nov-17 | EPA200.7 | |
| Potassium* | <50.0 | | 50.0 | mg/L | 50 | B711172 | JDA | 22-Nov-17 | EPA200.7 | |
| Sedium* | 130 | | 50.0 | mg/L | 50 | B711172 | JDA | 22-Nov-17 | EPA200.7 | |

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Chen & Alexan



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: FARMS #1
Project Manager: BEN DONAHUE

Fax To:

Reported: 05-Dec-17 14:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|----------|----------------|------------------|-----------|----------------|------|--------------|-------|
| Batch 7110705 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (7110705-BLK1) | | | | Prepared & | Analyzed: | 07-Nov-1 | 7 | | | |
| Alkalinity, Carbonate | ND | 1.00 | mg/L | | | | | | | |
| Alkalinity, Bicarbonate | 5.00 | 5.00 | mg/L | | | | | | | |
| Alkalinity, Total | 4.00 | 4.00 | mg/L | | | | | | | |
| LCS (7110705-BS1) | | | | Prepared & | : Analyzed: | 07-Nov-1 | 7 | | | |
| Alkalinity, Carbonate | ND | 2.50 | mg/L | | | | 80-120 | | | |
| Alkalinity, Bicarbonate | 330 | 12.5 | mg/L | | | | 80-120 | | | |
| Alkalinity, Total | 270 | 10.0 | mg/L | 250 | | 108 | 80-120 | | | |
| LCS Dup (7110705-BSD1) | | | | Prepared & | Analyzed: | 07-Nov-1 | 7 | | | |
| Alkalinity, Carbonate | ND | 2.50 | mg/L | | | | 80-120 | | 20 | |
| Alkalinity, Bicarbonate | 355 | 12.5 | mg/L | | | | 80-120 | 7.30 | 20 | |
| Alkalinity, Total | 290 | 10.0 | mg/L | 250 | | 116 | 80-120 | 7.14 | 20 | |
| Batch 7111608 - Filtration | | | | | | | | | | |
| Blank (7111608-BLK1) | | | | Prepared: | 16-Nov-17 | Analyzed: | 17-Nov-17 | | | |
| TDS | ND | 5.00 | mg/L | | | | | | | |
| LCS (7111608-BS1) | | | | Prepared: | 16-Nov-17 | Analyzed: | 17-Nov-17 | | | |
| TDS | 228 | 5.00 | mg/L | 213 | | 107 | 80-120 | | | |
| Duplicate (7111608-DUP1) | Sou | rce: H703199 | -01 | Prepared: | 16-Nov-17 | Analyzed: | 17-Nov-17 | | | |
| TDS | 9630 | 5.00 | mg/L | | 9890 | | | 2.64 | 20 | |
| Batch 7111701 - General Prep - Wet Chem | | | | | | | | | | |
| LCS (7111701-BS1) | | | | Prepared: | 16-Nov-17 | Analyzed: | 17-Nov-17 | | | |
| Conductivity | 507 | | uS/cm | 500 | | 101 | 80-120 | | | |
| pH | 6.97 | | pH Units | 7.00 | | 99.6 | 90-110 | | | |

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Celeg D. Kuna



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT Project Number: FARMS #1 Project Manager: BEN DONAHUE

Fax To:

Reported: 05-Dec-17 14:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---|--------|---------------|----------|------------|---|-------------|----------|-------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7111701 - General Prep - Wet Chem | | | | | | | | | | |
| Duplicate (7111701-DUP1) | Sou | ırce: H703206 | -01 | Prepared: | 16-Nov-17 | Analyzed: 1 | 7-Nov-17 | | | |
| Conductivity | 501000 | 1.00 | uS/cm | | 494000 | | | 1.46 | 20 | |
| pH | 7.07 | 0.100 | pH Units | | 7.06 | | | 0.142 | 20 | |
| Batch 7112001 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (7112001-BLK1) | | | | Prepared & | Analyzed: | 20-Nov-17 | , | | | |
| Chloride | ND | 4.00 | mg/L | | | | | | | |
| LCS (7112001-BS1) | | | | Prepared & | Analyzed: | 20-Nov-17 | | | | |
| Chloride | 100 | 4.00 | mg/L | 100 | | 100 | 80-120 | | | |
| LCS Dup (7112001-BSD1) | | | | Prepared & | k Analyzed: | 20-Nov-17 | , | | | |
| Chloride | 100 | 4.00 | mg/L | 100 | *************************************** | 100 | 80-120 | 0.00 | 20 | |
| Batch 7112201 - General Prep - Wet Chem | | | | | | | | _ | | |
| Blank (7112201-BLK1) | | | | Prepared & | & Analyzed: | 22-Nov-17 | , | | | |
| Sulfate | ND | 10.0 | mg/L | | | | | | | |
| LCS (7112201-BS1) | | | | Prepared & | k Analyzed: | 22-Nov-17 | , | | | |
| Sulfate | 23.2 | 10.0 | mg/L | 20.0 | | 116 | 80-120 | | | · · |
| LCS Dup (7112201-BSD1) | | | | Prepared & | k Analyzed: | 22-Nov-17 | 7 | | | |
| Sulfate | 23.6 | 10.0 | mg/L | 20.0 | | 118 | 80-120 | 1.79 | 20 | |

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ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: FARMS #1
Project Manager: BEN DONAHUE

Reported: 05-Dec-17 14:36

Fax To:

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|-----------|--------------------|-------|----------------|------------------|-------------|----------------|--------|--------------|-------|
| Batch B711172 - Total Rec. 200.7/20 | 0.8/200.2 | | | | | | | | | |
| Blank (B711172-BLK1) | | | | Prepared: 2 | 20-Nov-17 | Analyzed: 2 | 2-Nov-17 | | | |
| Sodium | ND | 1.00 | mg/L | | | | | | | |
| Magnesium | ND | 0.100 | mg/L | | | | | | | |
| Calcium | ND | 0.100 | mg/L | | | | | | | |
| Potassium | ND | 1.00 | mg/L | | | | | | | |
| LCS (B711172-BS1) | | | | Prepared: 2 | 20-Nov-17 | Analyzed: 2 | 2-Nov-17 | | | |
| Magnesium | 20.8 | 0.100 | mg/L | 20.0 | | 104 | 85-115 | | | |
| Calcium | 4.23 | 0.100 | mg/L | 4.00 | | 106 | 85-115 | | | |
| Sodium | 6.68 | 1.00 | mg/L | 6.48 | | 103 | 85-115 | | | |
| Potassium | 8.07 | 1.00 | mg/L | 8.00 | | 101 | 85-115 | | | |
| LCS Dup (B711172-BSD1) | | | | Prepared: | 20-Nov-17 | Analyzed: 2 | 2-Nov-17 | | | |
| Magnesium | 20.8 | 0.100 | mg/L | 20.0 | | 104 | 85-115 | 0.0742 | 20 | |
| Potassium | 8.22 | 1.00 | mg/L | 8.00 | | 103 | 85-115 | 1.77 | 20 | |
| Calcium | 4.24 | 0.100 | mg/L | 4.00 | | 106 | 85-115 | 0.215 | 20 | |
| Sodium | 6.66 | 1.00 | mg/L | 6.48 | | 103 | 85-115 | 0.224 | 20 | |
| Batch B711206 - Total Rec. 200.7/20 | 0.8/200.2 | | | | | | | | | |
| Blank (B711206-BLK1) | | | | Prepared: | 27-Nov-17 | Analyzed: 2 | 9-Nov-17 | | | |
| Calcium | ND | 0.100 | mg/L | | | | | | | |
| Sodium | ND | 1.00 | mg/L | | | | | | | |
| Magnesium | ND | 0.100 | mg/L | | | | | | | |
| Potassium | ND | 1.00 | mg/L | | | | | | | |
| LCS (B711206-BS1) | | | | Prepared: | 27-Nov-17 | Analyzed: 2 | 9-Nov-17 | | | |
| Magnesium | 20.7 | 0,100 | mg/L | 20,0 | | 104 | 85-115 | | | |
| Potassium | 8.35 | 1.00 | mg/L | 8.00 | | 104 | 85-115 | | | |
| Calcium | 4.15 | 0.100 | mg/L | 4.00 | | 104 | 85-115 | | | |
| Sodium | 6.64 | 1.00 | mg/L | 6.48 | | 102 | 85-115 | | | |

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Celeg D. Keene



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: FARMS #1

Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|-----------|--------------------|-------|----------------|------------------|-------------|----------------|------|--------------|-------|
| Batch B711206 - Total Rec. 200.7/20 | 0.8/200.2 | | | | | | | | | |
| LCS Dup (B711206-BSD1) | | | | Prepared: 2 | 27-Nov-17 A | Analyzed: 2 | 9-Nov-17 | | | |
| Potassium | 8.07 | 1.00 | mg/L | 8.00 | | 101 | 85-115 | 3.36 | 20 | |
| Magnesium | 20.0 | 0.100 | mg/L | 20.0 | | 100 | 85-115 | 3.34 | 20 | |
| Sodium | 6.43 | 1.00 | mg/L | 6.48 | | 99.2 | 85-115 | 3.28 | 20 | |
| Calcium | 3.99 | 0.100 | mg/L | 4.00 | | 99.7 | 85-115 | 4.11 | 20 | |
| | | | _ | | | | | | | |

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ND

Notes and Definitions

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500CI-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

Analyte NOT DETECTED at or above the reporting limit

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CARDINAL aboratories

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Name: CT2 Note Stoke | | BILL | BILL TO | | ANALYSIS | REQUEST | |
|---|--|--|--|--------|----------|---------|---|
| nager: Ben Danahue | experience described in the second se | P.O. #: | | | | | |
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| State: | Zip: | Attn: | William State Management of the Control of the Cont | | | 4 | • |
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| cation: | | Phone #: | | 7 | | 1 | |
| ame: Ben Donahue | And the second s | Fax #: | The state of the s | W/ | | | |
| | MATRIX | PRESERV | SAMPLING | / | 1 | | |
| Sample I.D. | (G)RAB OR (C)OMP # CONTAINERS # COUNDWATER WASTEWATER SOIL OIL | OTHER; ACID/BASE: ICE / COOL OTHER; | DATE TIME | uenzoz | ā | | |
| Brine Water | 2 - | | 80.6 UM | | | | |
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☐ Yes ☐ No Add'l Phone ☐ Yes ☐ No Add'l Fax#:

Cool Infact (Initials)
No No 10 # 25 0.550 MIC 12 UPS - Bus - Other: 1 By: (Circle One) ed By:

email 40: garymschuber @ gmail.com