

Rambo Materials, LLC

RAMBO MATERIALS, LLC

AQUIFER TEST REPORT

267 Wilbarger Bend Rd,
Bastrop, Texas 78602
Bastrop County

Submitted to: Lost Pines Groundwater Conservation District (LPGCD)

Prepared By:



Texas Registered Engineering Firm #F-4524

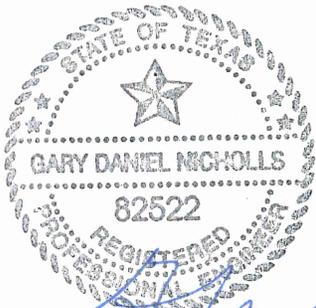
Boerne, Texas

830-249-8284

Date: December 2023

Project No. 11457-005

-BMW-



Signature: 
Gary D. Nicholls, PE - License No. 82522
Date: 12/14/23

Signature: 
Brandon Wilcox, REM, CESSWI
Date: 12/14/23

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1.0 INTRODUCTION & SCOPE OF WORK

Westward Environmental Inc. (WESTWARD) was engaged by Rambo Material, LLC (Client) to test and evaluate an established water well (State of Texas Well Report Tracking #648231) located near Bastrop Texas at 267 Wilbarger Road. The purpose of the pump test was to determine the ability of the well to sustainably produce up to 230 acre-feet/year as previously requested in the permit application submitted July 25, 2023 at a maximum rate of 300 gpm (revised from 350 gpm in the application).

This report was prepared and formatted in accordance with the requirements outlined within the District Pump Test and Report Guidance document available on the District’s website and Section 5: Operating Permits for Non-Exempt Wells of the district’s rules (Amended June 21, 2023).

2.0 GENERAL AQUIFER CHARACTERISTICS

This information was acquired through desktop evaluation and a literature search. Site specific data is discussed in Section 3.0. The target aquifer for groundwater supply is the Carrizo-Wilcox Aquifer. The Carrizo-Wilcox is a major aquifer that extends from the Louisiana border to the border of Mexico in a wide band adjacent to and northwest of the Gulf Coast Aquifer. The aquifer is comprised of the Hooper, Simsboro, and Calvert Bluff formations of the Wilcox Group and the overlying Carrizo Formation of the Claiborne Group. The aquifer is primarily composed of sand locally interbedded with gravel, silt, clay, and lignite (TWDB, 2011).

2.1 Stratigraphy of the Carrizo-Wilcox Aquifer

The test well location is situated within an unconsolidated alluvial terrace overlying the Simsboro Formation of Wilcox Group (USGS, 2013). Below is a generalized representation of the stratigraphy and hydrogeology of the Carrizo-Wilcox Aquifer (Figure 2.1-1), as well as several generalized structural cross sections of the Carrizo-Wilcox aquifer system (Figure 2.1-2).

| Series | | South Texas | | Central Texas | | Sabine uplift | | |
|-----------|------------|------------------|-----------------|-------------------|-------------------|-------------------|-----------------|-------------------|
| Tertiary | Eocene | U | Jackson Group | | Jackson Group | | Jackson Group | |
| | | M | Claiborne Group | Yegua Fm. | Claiborne Group | Yegua Fm. | Claiborne Group | Yegua Fm. |
| | | | | Cook Mountain Fm. | | Cook Mountain Fm. | | Cook Mountain Fm. |
| | | | | Sparta Sand | | Sparta Sand | | Sparta Sand |
| | | | | Weches Fm. | | Weches Fm. | | Weches Fm. |
| | | | | Queen City sand | | Queen City sand | | Queen City sand |
| | Reklaw Fm. | Reklaw Fm. | Reklaw Fm. | | | | | |
| | L | Wilcox Group | Carrizo sand | Wilcox Group | Carrizo sand | Wilcox Group | Carrizo sand | |
| | U | | Upper Wilcox | | Calvert Bluff Fm. | | Upper Wilcox | |
| | | | Middle Wilcox | | Simsboro Fm. | | Middle Wilcox | |
| Paleocene | L | Lower Wilcox | Hooper Fm. | Lower Wilcox | | | | |
| | L | Midway Formation | | Midway Formation | | Midway Formation | | |

Figure 2.1-1: Stratigraphy and hydrogeology in the Carrizo-Wilcox aquifer (TWDB, 2016)

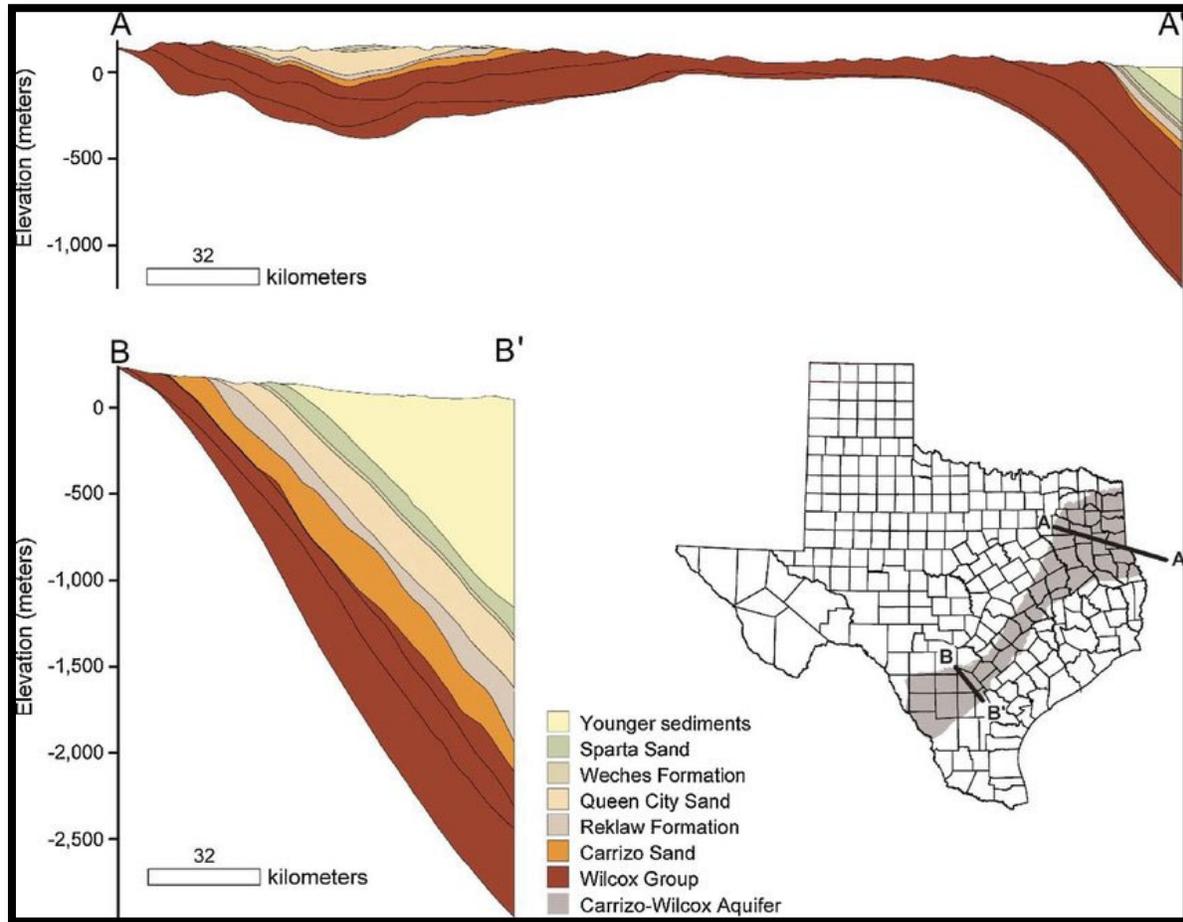


Figure 2.1-2: Structural cross sections of the Carrizo-Wilcox aquifer system (Smith, W. & Miller, Gretchen & Sheng, Zhuping, 2017)

2.2 Characteristics of the Aquifer

The Carrizo-Wilcox aquifer is identified as one of the nine major aquifers of Texas, where yields associated with wells completed within Carrizo-Wilcox aquifer range from less than 100-gpm to greater than 2,500-gpm. Due to the complex lithologic makeup of the Wilcox Group, hydraulic conductivity can be highly variable from one area to another. The highest hydraulic conductivity values are associated with areas where channel sand deposits are located (TWDB, 1991). The average hydraulic conductivity within the aquifer decreases to the northeast. Hydraulic conductivity ranges from about 0.01 to 4,000 ft/day, with an average of about 6 ft/day. Transmissivity ranges from about 0.1 to 10,000 ft²/day and has a geometric average of about 300 ft²/day (TWDB, 2016).

2.3 Recharge, Movement, and Discharge

Recharge sources for the Carrizo-Wilcox aquifer come from rainfall, seepage from lakes and streams on the aquifer's outcrop, and inter-formational leakage. The major source and controlling factor for recharge is the frequency and quantity of precipitation. The natural recharge rate of the Carrizo-Wilcox aquifer has been estimated to be slightly in excess of 1 inch/year (TWDB, 1991).

The principle direction of initial movement of recharge in the Carrizo-Wilcox outcrop is downward through the zone of aeration under the force of gravity. Upon reaching the water table, ground water moves horizontally and in the direction of decreasing head or pressure. This movement is controlled largely by topography in the outcrop area. Flow is generally from topographic highs, which are recharge areas, to topographic lows, which are natural discharge areas. Some groundwater moves downdip along the beds of the formation into the artesian section where, due to differences in hydrostatic pressure in the aquifers, it slowly seeps upward through semiconfining beds or along faults into overlying younger units. Rates of movement in the Carrizo-Wilcox are highly variable from one area to another depending on sand body distribution, hydraulic conductivity, and hydraulic gradient (TWDB, 1991).

Discharge of groundwater from the Carrizo-Wilcox aquifer occurs by anthropogenic and nonanthropogenic means. Nonanthropogenic discharge occurs as flow to rivers (e.g. the Colorado River) and lakes, discharge from springs, and interformational leakage. Anthropogenic discharge occurs principally through the pumping of wells (TWDB, 1991).

2.4 Groundwater Quality

In general, groundwater within the Carrizo Formation and the Wilcox Group is fresh to slightly saline with a high degree of hardness. Groundwater in the unconfined area is hard with typical observed total dissolved solids (TDS) concentrations being less than 1,000 mg/L. Groundwater in the confined area of the aquifer is generally softer and has TDS concentrations less than 1,000 mg/L, except in the southern and western portions of the aquifer (TWDB, 2016).

High iron and manganese concentrations exceeding the established EPA secondary drinking water standards are characteristic of the deeper subsurface portions of the aquifer. Radionuclides are found at concentrations exceeding drinking water standards in limited areas in the south and central outcrop regions (TWDB, 2016). The figure below (Figure 2.4-1) displays the generalized locations of the unconfined and confined portions of the aquifer, as well as generalized TDS concentrations through the aquifer.

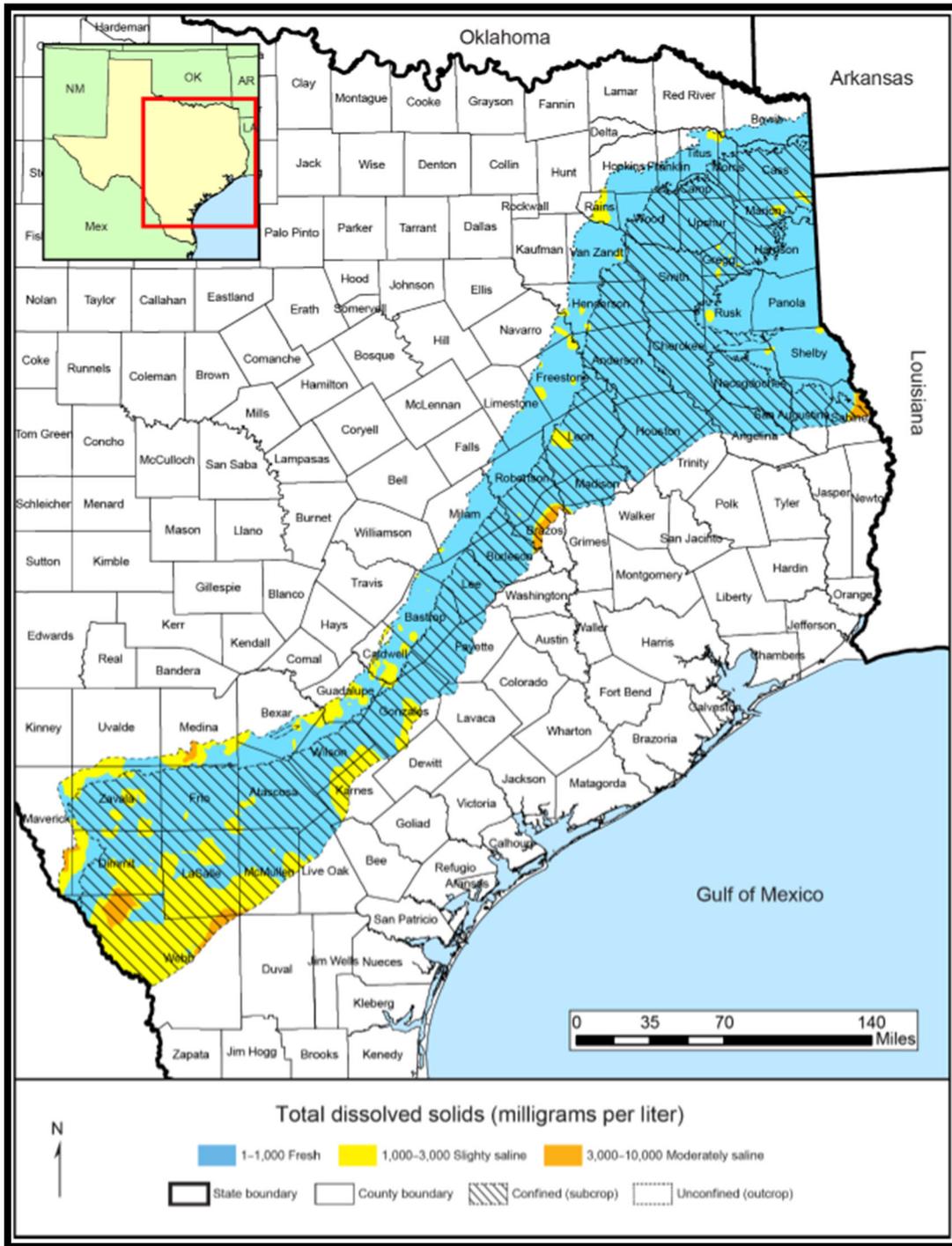


Figure 2.4-1: TDS concentrations within the Carrizo-Wilcox aquifer (TWDB, 2016)

3.0 OBTAINING SITE SPECIFIC DATA – AQUIFER TEST

An aquifer test was conducted by WESTWARD in coordination with Thomas Moy and Sons Water Well Drilling Inc. from November 10 – 15, 2023. A single test well was utilized to collect site specific data including drawdown and recovery observations. The test was performed as a constant rate pump test, with an average pumping rate of 286 gpm over the course of 720 minutes (12 hours). The maximum observed drawdown was 145.26 feet. The recovery test was initiated immediately upon completion of the pump test and lasted 2,525 minutes (42.083 hours) when 97% recovery was obtained.

3.1 Test Well

One test well was drilled by Thomas Moy and Sons Water Well Drilling Inc. Drilling of the test well began on August 28, 2023 and well construction was completed on September 4, 2023. Based on the State of Texas Well report, the well is located at 30.163611°, -97.418056°, at an elevation of ~390 feet above mean sea level (amsl). This 12-inch diameter well was drilled to a dept of 420 ft. below ground surface (bgs). The annular space was sealed from the surface down to 15 feet bgs. An 8-inch PVC casing was installed from the surface to the base of the well and is screened from 260 – 420 feet. Lithologic descriptions consist primarily of alternating intervals of shale and sand. A copy of the State of Texas Well Report for Tracking #648231 is included in **Attachment A**.

According to data obtained from the TWDB relating to the geographic extents of the confined and unconfined portions of the Carizzo-Wilcox aquifer, the well is located within the unconfined portion of the aquifer. Based on data contained within the attached State of Texas Well Report, as well as the geographic location of the well within Bastrop County, it is assumed that the well fully penetrates the aquifer.

3.2 Pump Test

An aquifer test was conducted by WESTWARD in coordination with Thomas Moy and Sons Water Well Drilling Inc. from November 10 – 15, 2023. Over the course of the 12-hour pump test (720-minutes), the well was pumped at rates ranging from 280 to 295 gpm, with an average pump rate of 286 gpm. The maximum observed drawdown was 145.26 feet. The recovery test was initiated immediately upon completion of the pump test and lasted 2,525 minutes (42.083 hours) when 97% recovery was obtained. Throughout the pumping and recovery stages of the pump test, water level and temperature readings were collected at 5-minute intervals through the use of a Solinst Levelogger® 5. Drawdown and recovery data

collected by the Solinst Levellogger® 5 is available for review in **Attachment C**. In addition, water level readings were manually collected at approximately 2-hour intervals during the pump test with a Heron Instruments dipper-T Water Level Meter. Water level readings collected manually during the pump test are available for review within the field notes document titled “Pump Test Tracking Sheet” located in **Attachment B**.

3.3 Water Quality Sampling

As documented within the attached Pump Test Tracking Sheet and summarized within Table 3.3-1 below, field parameters (pH, specific conductance, and temperature) were documented by WESTWARD personnel at the start and at the end of the 12-hour pump test. Based on the two datapoints, it is evident that a slight increase in pH, specific conductance, and temperature occurred over the 12-hour period.

Table 3.3-1: Summary of Field Parameters

| Time ¹ | pH ² (su) | Specific Conductance ² (µS/cm) | Temperature (°C) |
|-------------------|-------------------------|--|---------------------|
| 7:15 AM | 7.14 | 685 | 18.9 |
| 7:15 PM | 7.50 | 695 | 21.9 |

Table 3.3-1 Notes: 1 – Field parameters were collected on November 13, 2023.

2 – pH and specific conductance meters were calibrated on November 12, 2023.

In addition to field parameters collected at the beginning and end of the 12-hour pump test, two water quality samples were collected by WESTWARD personnel at 7:15 AM and 1:15 PM on November 13, 2023. In accordance with the previously submitted Aquifer Test Plan, once the water quality samples were collected, WESTWARD personnel transported the samples to the LPGCD office, where LPGCD staff took custody of the samples. As documented by the chain of custody form located within the attached AQUA Water Supply Corporation (AQUA) laboratory report, LPGCD staff surrendered custody of the samples to AQUA on November 13, 2023. Aqua subsequently analyzed the samples for the following water quality constituents: TDS, SO₄, Cl, Ca, Mg, Na, F, Br, NO₃, Phenolphthalein Alkalinity, Hydroxide Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, and Total Alkalinity (CaCO₃). A summary of the analytical testing results is presented in Table 3.3-2 found below.

Table 3.3-2: Summary of AQUA Lab Report Data

| <u>Constituent</u> | <u>Sample 1 (mg/L)</u> | <u>Sample 2 (mg/kg)</u> |
|-----------------------------------|-----------------------------------|------------------------------------|
| Chloride | 28.10 | 28.10 |
| Fluoride | <0.25 | <0.25 |
| Nitrate | <1.00 | <1.00 |
| Sulfate | 41.40 | 41.40 |
| TDS | 400.00 | 420.00 |
| Calcium | 49.50 | 51 |
| Magnesium | 10.62 | 10.68 |
| Sodium | 100.30 | 2.58 |
| Bromide | 0.0815 | 0.0744 |
| Phenolphthalein Alkalinity | 0.00 | 0.00 |
| Hydroxide Alkalinity | 0.00 | 0.00 |
| Bicarbonate Alkalinity | 0.00 | 312.00 |
| Carbonate Alkalinity | 0.00 | 0.00 |
| Total Alkalinity (CaCO3) | 20.00 | 213.00 |

Table 3.3-2 Note: This table is a summary of the available datasets. See AQUA lab report (**Attachment D**) for full details.

4.0 PUMP TEST RESULTS – AQUIFER PARAMETERS

Aquifer parameters were estimated using the Cooper-Jacob Straight-Line Method and Modified Nonequilibrium Equation in Microsoft Excel. The portion of the dataset used to estimate aquifer parameters was from time = 10 - 720 minutes. Copies of the drawdown and recovery graphs and associated dataset are included in **Attachment C**. A summary of the aquifer parameters is presented in Table 4.6-1.

Cooper-Jacob Modified Nonequilibrium Equation

$$s = \frac{264Q}{T} \log \frac{0.3Tt}{r^2S}$$

| | |
|---|--|
| s | Drawdown (ft.) |
| Q | Pumping Rate (gpm) |
| T | Coefficient of Transmissivity (gpd/ft) |
| t | Time since pumping started (days) |
| r | Distance from pump well to measurement (ft.) |
| S | Coefficient of Storage (dimensionless) |

4.1 Thickness of Aquifer

The thickness of the aquifer was calculated by taking the static water level measured at the start of the pump test and subtracting that from the depth to the base of the well screen. The thickness of the aquifer is approximately 234 feet.

4.2 Rate of Yield and Drawdown (Q)

During the pump test, well yielded ranged from 280 gpm to 295 gpm with an overall average of approximately 286 gpm. The maximum observed drawdown was 145.26 feet at 710 minutes (11.83 hours).

4.3 Specific Capacity (Q/s)

Specific capacity is the flow or discharge rate in gpm (Q), divided by the observed drawdown in feet (s). The specific capacity of the test well is estimated at 1.97 gpm/ft.

4.4 Transmissivity (T)

Transmissivity (T) was estimated using the Cooper-Jacobs Straight Line Method, and the following equation:

$$T = \frac{264Q}{\Delta s'}$$

In this test the pumping rate (Q) averaged approximately 286 gpm, and the Δs over one log cycle was 34.9 feet. This resulted in a transmissivity value of 2,163 gpd/ft.

4.5 Hydraulic Conductivity (K)

Hydraulic conductivity (K) was estimated as the transmissivity (T) divided by the aquifer thickness in feet. The estimated aquifer thickness is 234 feet, resulting in a hydraulic conductivity of 9.25 gpd/ft².

4.6 Summary of Aquifer Parameters

In accordance with Section 5 – Rule 5.1(B)(5) of the LPGCD’s rules, a summary of the required aquifer parameters is presented within the table below.

Table 4.6-1: Summary of Aquifer Parameters

| | |
|-------------------------------|--------------------------|
| Specific Capacity | 1.97 gpm/ft |
| Transmissivity | 2,163 gpd/ft |
| Hydraulic Conductivity | 9.25 gpd/ft ² |

5.0 REFERENCES

- (TWDB, 1991) Texas Water Development Board, 1991. Report 332 – Ground-Water Resources of the Carrizo-Wilcox Aquifer in the Central Texas Region
- (TWDB, 2011) Texas Water Development Board, 2011. Report 380 – Aquifers of Texas
- (USGS, 2013) U.S. Geological Survey, 2013, Quaternary geologic map of the Austin 4° x 6° quadrangle, United States, accessed December 5, 2023 at URL [https://pubs.usgs.gov/publication/i1420\(NH14\)](https://pubs.usgs.gov/publication/i1420(NH14))
- (TWDB, 2016) Texas Water Development Board, 2016. Texas Aquifer Study – Groundwater Quantity, Quality, Flow, and Contributions to Surface Water.
- (TWDB, 2023) Texas Water Development Board, 2023. Water Data Interactive – Groundwater Data Viewer, State of Texas Well Report for Tracking #648231, accessed December 5, 2023, at URL <https://www3.twdb.texas.gov/apps/waterdatainteractive//GetReports.aspx?Num=648231&Type=SDR-Well>
- (Smith, W. & Miller, Gretchen & Sheng, Zhuping, 2017) Smith, W. & Miller, Gretchen & Sheng, Zhuping. (2017). Assessing aquifer storage and recovery feasibility in the Gulf Coastal Plains of Texas. *Journal of Hydrology: Regional Studies*. 14. 92-108. 10.1016/j.ejrh.2017.10.007.

ATTACHMENT A: State of Texas Well Report for Tracking #648231

| | | |
|----------------|---------------------------|-------------------|
| Water Quality: | <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
| | 260 - 420 | Fresh |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Thomas Moy and Sons Water Well Drilling Inc.**
12323 N. St. Hwy. 123
Falls City, TX 78113

Driller Name: **Joshua J Moy** License Number: **59531**

Apprentice Name: **Taylor Spreen** Apprentice Number: **60843**

Comments: **Poured bentonite pellets over gravel**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|---------------------------|
| 0 | 50 | Surfers Pipe |
| 50 | 76 | Shale |
| 76 | 182 | Sand / Rock |
| 182 | 205 | Shale Streaks Sand |
| 205 | 218 | Shale and Rocks |
| 218 | 251 | Shale |
| 251 | 277 | Sand |
| 277 | 278 | Rock |
| 278 | 346 | Sand / Rock |
| 346 | 370 | Shale |
| 370 | 374 | Sand |
| 374 | 375 | Rock |
| 375 | 420 | Sand / Shale /TD |

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|---------------|--------------------------|---------------------|------------------|---------------------|
| 8 | Blank | New Plastic (PVC) | SDR 17 | -2 | 260 |
| 8 | Screen | New Plastic (PVC) | SDR 17 0.032 | 260 | 420 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

ATTACHMENT B: Field Notes - Field Test Tracking Sheet

Pump Test Tracking sheet

Date: 11/10/23
 Project No: 11457-05-04
 Site Name: RAMBO - BASTROP

Pre Test:
 Personnel Present Onsite: GN
 Transducer depth: ~230' below TOC
 Flow Meter Make & Model: IAT 3 ANSI PV 10454 Netafim

Pump Test:
 Start Date: 11/13/23 Beginning Water Level 43.93 0
 Pump on Time: 7:15A Lowest Water Level reading 188.91
 Test Start Time: (Steady Flow) 7:20 A 95% Water Level 51.18 0 -33.490
below TOC

| Test Schedule | Time (of day) | Time (hrs) | Event | Water Level (Feet) | Flow Rate (gpm) |
|-------------------|-----------------|---------------|---|-----------------------------------|------------------------|
| Pre pump Test | <u>11/10/23</u> | <u>11:00A</u> | 0 Manual Water El Reading | <u>44.00</u> | — |
| | | | 6 Review Transducer Logging | | |
| | | | 12 Review Transducer Logging | | |
| | | | 18 Review Transducer Logging | | |
| | | | 24 Manual Water El Reading | — | — |
| | <u>11/13/23</u> | | | | |
| 12 hour Pump Test | <u>7:15A</u> | <u>-0.16</u> | Manual Water El Reading | <u>43.93</u> | |
| | | | Start Test, Water Quality (PH/temp/Cond.) ✓ Water Quality (Full) ✓ | <u>PH 7.14</u> <u>COND 685</u> | |
| | <u>7:15A</u> | | 0 Review Transducer Logging | <u>NA</u> | <u>18.9C (delayed)</u> |
| | <u>7:45A</u> | <u>0.5</u> | Manual Water El Reading | <u>144.32</u> | <u>295</u> |
| | <u>9:15A</u> | <u>2</u> | Manual Water El Reading | <u>160.43</u> | <u>284</u> |
| | <u>11:15A</u> | <u>4</u> | Manual Water El Reading | <u>168.76</u> | <u>280</u> |
| | <u>1:15P</u> | | Manual Water El Reading | | |
| | | | 6 Review Transducer Logging <u>WR (Full) ✓</u> | <u>177.76</u> | <u>288</u> |
| | <u>3:15P</u> | | Manual Water El Reading | | |
| | | | 8 Water Quality (PH/temp/Cond.) ✓ | <u>182.39</u> | <u>284</u> |
| | <u>5:11P</u> | | 10 Manual Water El Reading, | <u>186.45</u> | <u>286</u> |
| | <u>6:45P</u> | <u>11.5</u> | Manual Water El Reading | <u>188.91</u> | <u>282</u> |
| | | | End Test, Water Quality (Full) <u>per LPGCD</u> | <u>PH 7.50</u> <u>COND 695</u> | |
| | <u>7:15P</u> | | 12 Review Transducer Logging | <u>NA</u> | <u>21.9C</u> |
| Recovery Test | <u>7:16P</u> | | 0 Starts immediately at end of pump test | <u>165.25</u> | <u>0</u> |
| | <u>11:10P</u> | | 4 Manual Water El Reading | <u>68.09</u> | <u>0</u> |
| | | | 8 Manual Water El Reading | — | — |
| | <u>8:05A</u> | | 12 Manual Water El Reading | <u>56.70</u> | <u>0</u> |
| | <u>10:05A</u> | | Test can be terminated when water levels reach 95% of Pre test Manual Water Level reading should continue at 4 hour increments until test is terminated. If recovery takes longer than 36 hours test can be terminated. | <u>55.41</u> | <u>0</u> |
| | <u>10:35A</u> | | | <u>55.15</u> | <u>0</u> |
| | <u>11:35A</u> | | | <u>54.55</u> | <u>0</u> |
| | | TBD | | | |

7:21 105.54 0
7:26 99.45 0
 TOC - top of casing

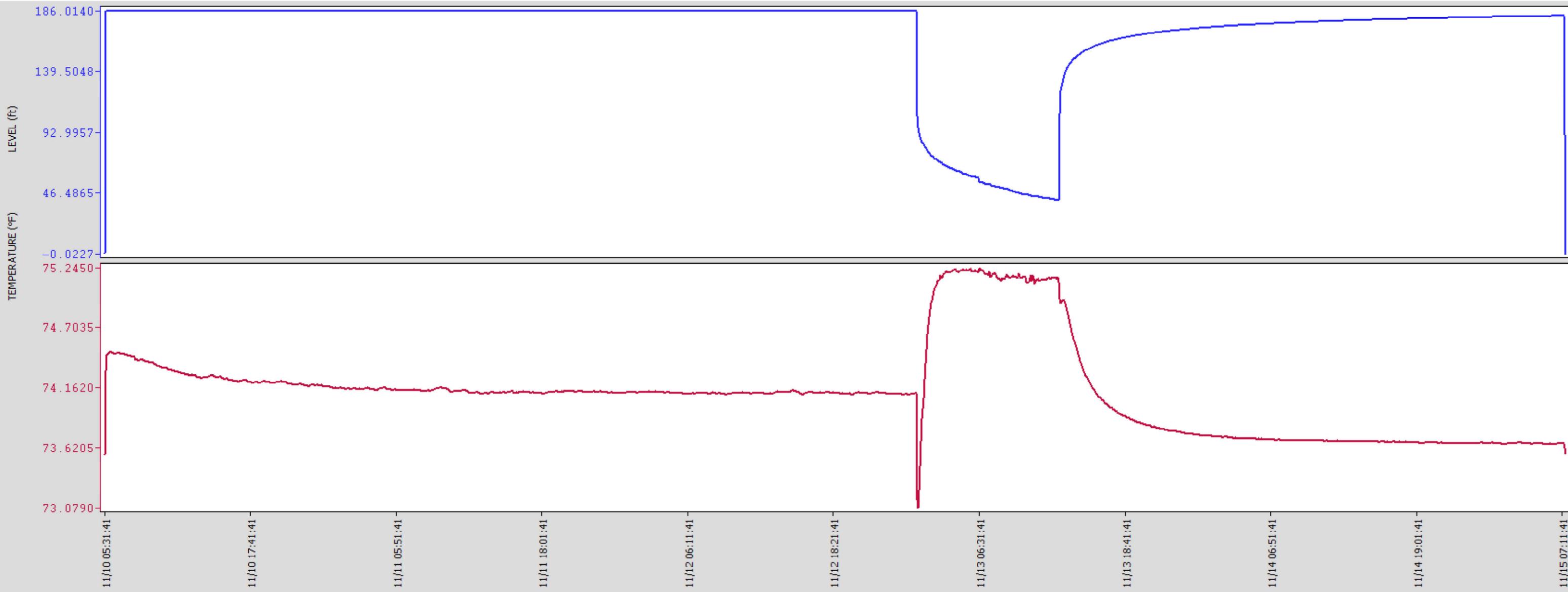
ATTACHMENT C: Drawdown and Recovery Data

Solinst Levellogger® 5 Datalogger – Drawdown and Recovery

Solinst Levellogger® 5 Datalogger – Dataset

Pump Well: Time vs. Drawdown

Solinst Levelogger® 5 Datalogger Drawdown and Recovery



Serial_number:
2158259

Project ID:
pre pump test final
Location:
Rambo-well

LEVEL
UNIT: ft
Offset: -33.490200 ft
TEMPERATURE
UNIT: °F

| Date | Time From Start | Time | LEVEL (ft) | TEMPERATURE (°F) | Notes | Pump Rate (gpm) |
|------------|-----------------|-------------|------------|------------------|-------|-----------------|
| 11/10/2023 | | 11:31:41 AM | -0.0025 | 73.557 | | |
| 11/10/2023 | | 11:36:41 AM | 185.569 | 74.315 | | |
| 11/10/2023 | | 11:41:41 AM | 185.631 | 74.452 | | |
| 11/10/2023 | | 11:46:41 AM | 185.667 | 74.465 | | |
| 11/10/2023 | | 11:51:41 AM | 185.683 | 74.474 | | |
| 11/10/2023 | | 11:56:41 AM | 185.699 | 74.481 | | |
| 11/10/2023 | | 12:01:41 PM | 185.715 | 74.486 | | |
| 11/10/2023 | | 12:06:41 PM | 185.725 | 74.477 | | |
| 11/10/2023 | | 12:11:41 PM | 185.738 | 74.472 | | |
| 11/10/2023 | | 12:16:41 PM | 185.754 | 74.473 | | |
| 11/10/2023 | | 12:21:41 PM | 185.769 | 74.465 | | |
| 11/10/2023 | | 12:26:41 PM | 185.773 | 74.462 | | |
| 11/10/2023 | | 12:31:41 PM | 185.772 | 74.469 | | |
| 11/10/2023 | | 12:36:41 PM | 185.782 | 74.475 | | |
| 11/10/2023 | | 12:41:41 PM | 185.782 | 74.47 | | |
| 11/10/2023 | | 12:46:41 PM | 185.792 | 74.469 | | |
| 11/10/2023 | | 12:51:41 PM | 185.792 | 74.463 | | |
| 11/10/2023 | | 12:56:41 PM | 185.794 | 74.466 | | |
| 11/10/2023 | | 1:01:41 PM | 185.797 | 74.466 | | |
| 11/10/2023 | | 1:06:41 PM | 185.796 | 74.468 | | |
| 11/10/2023 | | 1:11:41 PM | 185.795 | 74.461 | | |
| 11/10/2023 | | 1:16:41 PM | 185.796 | 74.457 | | |
| 11/10/2023 | | 1:21:41 PM | 185.801 | 74.459 | | |
| 11/10/2023 | | 1:26:41 PM | 185.812 | 74.453 | | |
| 11/10/2023 | | 1:31:41 PM | 185.803 | 74.443 | | |
| 11/10/2023 | | 1:36:41 PM | 185.808 | 74.449 | | |
| 11/10/2023 | | 1:41:41 PM | 185.804 | 74.453 | | |
| 11/10/2023 | | 1:46:41 PM | 185.798 | 74.441 | | |
| 11/10/2023 | | 1:51:41 PM | 185.803 | 74.436 | | |
| 11/10/2023 | | 1:56:41 PM | 185.811 | 74.437 | | |
| 11/10/2023 | | 2:01:41 PM | 185.816 | 74.436 | | |
| 11/10/2023 | | 2:06:41 PM | 185.799 | 74.414 | | |
| 11/10/2023 | | 2:11:41 PM | 185.806 | 74.418 | | |
| 11/10/2023 | | 2:16:41 PM | 185.81 | 74.416 | | |
| 11/10/2023 | | 2:21:41 PM | 185.812 | 74.405 | | |
| 11/10/2023 | | 2:26:41 PM | 185.809 | 74.413 | | |
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| 11/10/2023 | | 2:51:41 PM | 185.817 | 74.403 | | |
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| 11/10/2023 | | 3:31:41 PM | 185.825 | 74.384 | | |
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| 11/10/2023 | | 3:41:41 PM | 185.825 | 74.381 | | |
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| 11/10/2023 | | 4:01:41 PM | 185.83 | 74.355 | | |
| 11/10/2023 | | 4:06:41 PM | 185.841 | 74.353 | | |
| 11/10/2023 | | 4:11:41 PM | 185.83 | 74.35 | | |
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| 11/10/2023 | | 4:26:41 PM | 185.832 | 74.34 | | |
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| 11/10/2023 | | 4:41:41 PM | 185.838 | 74.341 | | |
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| 11/10/2023 | 5:51:41 PM | 185.854 | 74.294 |
| 11/10/2023 | 5:56:41 PM | 185.857 | 74.288 |
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| 11/10/2023 | 6:21:41 PM | 185.86 | 74.28 |
| 11/10/2023 | 6:26:41 PM | 185.851 | 74.276 |
| 11/10/2023 | 6:31:41 PM | 185.854 | 74.276 |
| 11/10/2023 | 6:36:41 PM | 185.859 | 74.273 |
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| 11/10/2023 | 6:56:41 PM | 185.862 | 74.272 |
| 11/10/2023 | 7:01:41 PM | 185.866 | 74.273 |
| 11/10/2023 | 7:06:41 PM | 185.866 | 74.267 |
| 11/10/2023 | 7:11:41 PM | 185.869 | 74.263 |
| 11/10/2023 | 7:16:41 PM | 185.867 | 74.256 |
| 11/10/2023 | 7:21:41 PM | 185.868 | 74.261 |
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| 11/10/2023 | 7:31:41 PM | 185.88 | 74.254 |
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| 11/10/2023 | 7:41:41 PM | 185.878 | 74.251 |
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| 11/10/2023 | 8:11:41 PM | 185.883 | 74.264 |
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| 11/10/2023 | 8:21:41 PM | 185.884 | 74.27 |
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| 11/10/2023 | 9:21:41 PM | 185.878 | 74.246 |
| 11/10/2023 | 9:26:41 PM | 185.881 | 74.244 |
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| 11/11/2023 | 5:41:41 AM | 185.931 | 74.181 |
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| 11/11/2023 | 6:31:41 AM | 185.943 | 74.16 |
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| 11/11/2023 | 7:31:41 AM | 185.949 | 74.153 |
| 11/11/2023 | 7:36:41 AM | 185.95 | 74.149 |
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| 11/11/2023 | 8:06:41 AM | 185.944 | 74.145 |
| 11/11/2023 | 8:11:41 AM | 185.947 | 74.151 |
| 11/11/2023 | 8:16:41 AM | 185.958 | 74.153 |
| 11/11/2023 | 8:21:41 AM | 185.993 | 74.155 |
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| 11/11/2023 | 9:11:41 AM | 185.97 | 74.152 |
| 11/11/2023 | 9:16:41 AM | 185.969 | 74.151 |
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| 11/11/2023 | 11:11:41 AM | 185.961 | 74.153 |
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| 11/11/2023 | 12:21:41 PM | 185.938 | 74.138 |
| 11/11/2023 | 12:26:41 PM | 185.931 | 74.134 |

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| 11/11/2023 | 1:21:41 PM | 185.918 | 74.142 |
| 11/11/2023 | 1:26:41 PM | 185.925 | 74.138 |
| 11/11/2023 | 1:31:41 PM | 185.925 | 74.142 |
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| 11/12/2023 | 6:16:41 PM | 185.974 | 74.115 |
| 11/12/2023 | 6:21:41 PM | 185.978 | 74.117 |
| 11/12/2023 | 6:26:41 PM | 185.975 | 74.116 |
| 11/12/2023 | 6:31:41 PM | 185.975 | 74.111 |
| 11/12/2023 | 6:36:41 PM | 185.978 | 74.107 |
| 11/12/2023 | 6:41:41 PM | 185.978 | 74.105 |
| 11/12/2023 | 6:46:41 PM | 185.981 | 74.103 |
| 11/12/2023 | 6:51:41 PM | 185.983 | 74.103 |
| 11/12/2023 | 6:56:41 PM | 185.985 | 74.104 |
| 11/12/2023 | 7:01:41 PM | 185.979 | 74.108 |
| 11/12/2023 | 7:06:41 PM | 185.976 | 74.11 |
| 11/12/2023 | 7:11:41 PM | 185.979 | 74.104 |
| 11/12/2023 | 7:16:41 PM | 185.971 | 74.11 |
| 11/12/2023 | 7:21:41 PM | 185.969 | 74.114 |
| 11/12/2023 | 7:26:41 PM | 185.969 | 74.118 |
| 11/12/2023 | 7:31:41 PM | 185.964 | 74.121 |
| 11/12/2023 | 7:36:41 PM | 185.964 | 74.125 |
| 11/12/2023 | 7:41:41 PM | 185.971 | 74.125 |
| 11/12/2023 | 7:46:41 PM | 185.966 | 74.123 |
| 11/12/2023 | 7:51:41 PM | 185.967 | 74.118 |
| 11/12/2023 | 7:56:41 PM | 185.973 | 74.121 |
| 11/12/2023 | 8:01:41 PM | 185.971 | 74.124 |
| 11/12/2023 | 8:06:41 PM | 185.974 | 74.125 |
| 11/12/2023 | 8:11:41 PM | 185.98 | 74.121 |
| 11/12/2023 | 8:16:41 PM | 185.976 | 74.12 |
| 11/12/2023 | 8:21:41 PM | 185.982 | 74.123 |
| 11/12/2023 | 8:26:41 PM | 185.981 | 74.118 |
| 11/12/2023 | 8:31:41 PM | 185.994 | 74.12 |
| 11/12/2023 | 8:36:41 PM | 185.993 | 74.123 |
| 11/12/2023 | 8:41:41 PM | 185.994 | 74.124 |
| 11/12/2023 | 8:46:41 PM | 185.992 | 74.126 |
| 11/12/2023 | 8:51:41 PM | 185.993 | 74.133 |
| 11/12/2023 | 8:56:41 PM | 185.987 | 74.136 |

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| 11/12/2023 | 9:01:41 PM | 185.995 | 74.135 |
| 11/12/2023 | 9:06:41 PM | 185.993 | 74.132 |
| 11/12/2023 | 9:11:41 PM | 185.994 | 74.134 |
| 11/12/2023 | 9:16:41 PM | 185.988 | 74.129 |
| 11/12/2023 | 9:21:41 PM | 185.99 | 74.119 |
| 11/12/2023 | 9:26:41 PM | 185.997 | 74.117 |
| 11/12/2023 | 9:31:41 PM | 186 | 74.11 |
| 11/12/2023 | 9:36:41 PM | 186.004 | 74.107 |
| 11/12/2023 | 9:41:41 PM | 185.999 | 74.105 |
| 11/12/2023 | 9:46:41 PM | 186.004 | 74.098 |
| 11/12/2023 | 9:51:41 PM | 186.01 | 74.102 |
| 11/12/2023 | 9:56:41 PM | 186.007 | 74.108 |
| 11/12/2023 | 10:01:41 PM | 186.012 | 74.113 |
| 11/12/2023 | 10:06:41 PM | 186.008 | 74.114 |
| 11/12/2023 | 10:11:41 PM | 186.008 | 74.117 |
| 11/12/2023 | 10:16:41 PM | 186.008 | 74.123 |
| 11/12/2023 | 10:21:41 PM | 186.004 | 74.122 |
| 11/12/2023 | 10:26:41 PM | 186.006 | 74.126 |
| 11/12/2023 | 10:31:41 PM | 186.007 | 74.119 |
| 11/12/2023 | 10:36:41 PM | 186.006 | 74.12 |
| 11/12/2023 | 10:41:41 PM | 186.006 | 74.115 |
| 11/12/2023 | 10:46:41 PM | 186.007 | 74.109 |
| 11/12/2023 | 10:51:41 PM | 186.006 | 74.108 |
| 11/12/2023 | 10:56:41 PM | 186.002 | 74.115 |
| 11/12/2023 | 11:01:41 PM | 186.001 | 74.111 |
| 11/12/2023 | 11:06:41 PM | 186.002 | 74.114 |
| 11/12/2023 | 11:11:41 PM | 186.006 | 74.117 |
| 11/12/2023 | 11:16:41 PM | 186.004 | 74.117 |
| 11/12/2023 | 11:21:41 PM | 186.001 | 74.113 |
| 11/12/2023 | 11:26:41 PM | 186.004 | 74.109 |
| 11/12/2023 | 11:31:41 PM | 186.003 | 74.112 |
| 11/12/2023 | 11:36:41 PM | 185.995 | 74.12 |
| 11/12/2023 | 11:41:41 PM | 186.003 | 74.119 |
| 11/12/2023 | 11:46:41 PM | 186.006 | 74.12 |
| 11/12/2023 | 11:51:41 PM | 185.999 | 74.118 |
| 11/12/2023 | 11:56:41 PM | 185.999 | 74.121 |
| 11/13/2023 | 12:01:41 AM | 186.007 | 74.121 |
| 11/13/2023 | 12:06:41 AM | 186.002 | 74.116 |
| 11/13/2023 | 12:11:41 AM | 186 | 74.115 |
| 11/13/2023 | 12:16:41 AM | 185.997 | 74.117 |
| 11/13/2023 | 12:21:41 AM | 186.007 | 74.117 |
| 11/13/2023 | 12:26:41 AM | 185.997 | 74.116 |
| 11/13/2023 | 12:31:41 AM | 186 | 74.122 |
| 11/13/2023 | 12:36:41 AM | 185.995 | 74.113 |
| 11/13/2023 | 12:41:41 AM | 185.997 | 74.112 |
| 11/13/2023 | 12:46:41 AM | 185.997 | 74.11 |
| 11/13/2023 | 12:51:41 AM | 185.997 | 74.112 |
| 11/13/2023 | 12:56:41 AM | 185.993 | 74.106 |
| 11/13/2023 | 1:01:41 AM | 185.991 | 74.111 |
| 11/13/2023 | 1:06:41 AM | 185.998 | 74.112 |
| 11/13/2023 | 1:11:41 AM | 185.997 | 74.107 |
| 11/13/2023 | 1:16:41 AM | 185.989 | 74.106 |
| 11/13/2023 | 1:21:41 AM | 185.989 | 74.106 |
| 11/13/2023 | 1:26:41 AM | 185.982 | 74.11 |
| 11/13/2023 | 1:31:41 AM | 185.987 | 74.105 |
| 11/13/2023 | 1:36:41 AM | 185.986 | 74.108 |
| 11/13/2023 | 1:41:41 AM | 185.995 | 74.111 |
| 11/13/2023 | 1:46:41 AM | 185.991 | 74.1 |
| 11/13/2023 | 1:51:41 AM | 185.987 | 74.093 |
| 11/13/2023 | 1:56:41 AM | 185.989 | 74.094 |
| 11/13/2023 | 2:01:41 AM | 185.986 | 74.098 |
| 11/13/2023 | 2:06:41 AM | 185.985 | 74.108 |
| 11/13/2023 | 2:11:41 AM | 185.99 | 74.109 |
| 11/13/2023 | 2:16:41 AM | 185.991 | 74.111 |
| 11/13/2023 | 2:21:41 AM | 185.985 | 74.122 |
| 11/13/2023 | 2:26:41 AM | 185.981 | 74.12 |
| 11/13/2023 | 2:31:41 AM | 185.987 | 74.117 |
| 11/13/2023 | 2:36:41 AM | 185.988 | 74.11 |
| 11/13/2023 | 2:41:41 AM | 185.991 | 74.116 |
| 11/13/2023 | 2:46:41 AM | 185.993 | 74.116 |
| 11/13/2023 | 2:51:41 AM | 185.987 | 74.115 |
| 11/13/2023 | 2:56:41 AM | 185.987 | 74.11 |
| 11/13/2023 | 3:01:41 AM | 185.993 | 74.111 |
| 11/13/2023 | 3:06:41 AM | 185.996 | 74.11 |
| 11/13/2023 | 3:11:41 AM | 185.992 | 74.111 |
| 11/13/2023 | 3:16:41 AM | 185.991 | 74.107 |
| 11/13/2023 | 3:21:41 AM | 186 | 74.106 |
| 11/13/2023 | 3:26:41 AM | 185.997 | 74.105 |

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| 11/13/2023 | 3:31:41 AM | 185.984 | 74.11 |
| 11/13/2023 | 3:36:41 AM | 185.989 | 74.11 |
| 11/13/2023 | 3:41:41 AM | 185.987 | 74.11 |
| 11/13/2023 | 3:46:41 AM | 185.984 | 74.117 |
| 11/13/2023 | 3:51:41 AM | 185.99 | 74.119 |
| 11/13/2023 | 3:56:41 AM | 185.98 | 74.122 |
| 11/13/2023 | 4:01:41 AM | 185.987 | 74.122 |
| 11/13/2023 | 4:06:41 AM | 185.992 | 74.124 |
| 11/13/2023 | 4:11:41 AM | 185.992 | 74.116 |
| 11/13/2023 | 4:16:41 AM | 185.986 | 74.112 |
| 11/13/2023 | 4:21:41 AM | 185.989 | 74.113 |
| 11/13/2023 | 4:26:41 AM | 185.988 | 74.113 |
| 11/13/2023 | 4:31:41 AM | 185.993 | 74.11 |
| 11/13/2023 | 4:36:41 AM | 185.999 | 74.112 |
| 11/13/2023 | 4:41:41 AM | 185.994 | 74.114 |
| 11/13/2023 | 4:46:41 AM | 186.002 | 74.106 |
| 11/13/2023 | 4:51:41 AM | 185.991 | 74.106 |
| 11/13/2023 | 4:56:41 AM | 185.985 | 74.107 |
| 11/13/2023 | 5:01:41 AM | 185.99 | 74.106 |
| 11/13/2023 | 5:06:41 AM | 185.992 | 74.11 |
| 11/13/2023 | 5:11:41 AM | 185.991 | 74.107 |
| 11/13/2023 | 5:16:41 AM | 185.99 | 74.108 |
| 11/13/2023 | 5:21:41 AM | 185.992 | 74.107 |
| 11/13/2023 | 5:26:41 AM | 185.986 | 74.102 |
| 11/13/2023 | 5:31:41 AM | 185.982 | 74.103 |
| 11/13/2023 | 5:36:41 AM | 185.988 | 74.105 |
| 11/13/2023 | 5:41:41 AM | 185.993 | 74.106 |
| 11/13/2023 | 5:46:41 AM | 185.995 | 74.103 |
| 11/13/2023 | 5:51:41 AM | 185.999 | 74.101 |
| 11/13/2023 | 5:56:41 AM | 185.994 | 74.103 |
| 11/13/2023 | 6:01:41 AM | 185.998 | 74.102 |
| 11/13/2023 | 6:06:41 AM | 185.993 | 74.099 |
| 11/13/2023 | 6:11:41 AM | 185.996 | 74.099 |
| 11/13/2023 | 6:16:41 AM | 186.002 | 74.1 |
| 11/13/2023 | 6:21:41 AM | 186 | 74.1 |
| 11/13/2023 | 6:26:41 AM | 186.004 | 74.102 |
| 11/13/2023 | 6:31:41 AM | 186 | 74.101 |
| 11/13/2023 | 6:36:41 AM | 186.003 | 74.097 |
| 11/13/2023 | 6:41:41 AM | 186.005 | 74.099 |
| 11/13/2023 | 6:46:41 AM | 186.006 | 74.107 |
| 11/13/2023 | 6:51:41 AM | 186.014 | 74.104 |
| 11/13/2023 | 6:56:41 AM | 186.011 | 74.107 |
| 11/13/2023 | 7:01:41 AM | 186.007 | 74.106 |
| 11/13/2023 | 7:06:41 AM | 186.007 | 74.114 |
| 11/13/2023 | 7:11:41 AM | 186.009 | 74.112 |
| 11/13/2023 | 0 7:16:41 AM | 186.005 | 74.114 Initiation of 12-Hour Pump Test (7:15 AM) |
| 11/13/2023 | 5 7:21:41 AM | 105.431 | 73.153 |
| 11/13/2023 | 10 7:26:41 AM | 96.7152 | 73.079 |
| 11/13/2023 | 15 7:31:41 AM | 92.5781 | 73.233 |
| 11/13/2023 | 20 7:36:41 AM | 90.1144 | 73.449 |
| 11/13/2023 | 25 7:41:41 AM | 87.8821 | 73.677 |
| 11/13/2023 | 30 7:46:41 AM | 85.6157 | 73.875 |
| 11/13/2023 | 35 7:51:41 AM | 83.7996 | 74.059 |
| 11/13/2023 | 40 7:56:41 AM | 82.6446 | 74.236 |
| 11/13/2023 | 45 8:01:41 AM | 81.1314 | 74.376 |
| 11/13/2023 | 50 8:06:41 AM | 80.2512 | 74.504 |
| 11/13/2023 | 55 8:11:41 AM | 79.1857 | 74.64 |
| 11/13/2023 | 60 8:16:41 AM | 77.6634 | 74.72 |
| 11/13/2023 | 65 8:21:41 AM | 77.0687 | 74.795 |
| 11/13/2023 | 70 8:26:41 AM | 76.2619 | 74.865 |
| 11/13/2023 | 75 8:31:41 AM | 74.8185 | 74.922 |
| 11/13/2023 | 80 8:36:41 AM | 74.3158 | 74.949 |
| 11/13/2023 | 85 8:41:41 AM | 74.4966 | 74.993 |
| 11/13/2023 | 90 8:46:41 AM | 73.2661 | 75.035 |
| 11/13/2023 | 95 8:51:41 AM | 72.316 | 75.06 |
| 11/13/2023 | 100 8:56:41 AM | 72.0376 | 75.087 |
| 11/13/2023 | 105 9:01:41 AM | 71.162 | 75.122 |
| 11/13/2023 | 110 9:06:41 AM | 70.8341 | 75.131 |
| 11/13/2023 | 115 9:11:41 AM | 69.8527 | 75.134 |
| 11/13/2023 | 120 9:16:41 AM | 69.7818 | 75.171 |
| 11/13/2023 | 125 9:21:41 AM | 69.2039 | 75.159 |
| 11/13/2023 | 130 9:26:41 AM | 69.0008 | 75.152 |
| 11/13/2023 | 135 9:31:41 AM | 68.1408 | 75.172 |
| 11/13/2023 | 140 9:36:41 AM | 68.1241 | 75.191 |
| 11/13/2023 | 145 9:41:41 AM | 67.2954 | 75.194 |
| 11/13/2023 | 150 9:46:41 AM | 66.9855 | 75.208 |
| 11/13/2023 | 155 9:51:41 AM | 66.5832 | 75.219 |
| 11/13/2023 | 160 9:56:41 AM | 66.0486 | 75.199 |

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| 11/13/2023 | 165 | 10:01:41 AM | 65.944 | 75.199 |
| 11/13/2023 | 170 | 10:06:41 AM | 65.1767 | 75.207 |
| 11/13/2023 | 175 | 10:11:41 AM | 65.2778 | 75.205 |
| 11/13/2023 | 180 | 10:16:41 AM | 64.909 | 75.219 |
| 11/13/2023 | 185 | 10:21:41 AM | 64.5183 | 75.22 |
| 11/13/2023 | 190 | 10:26:41 AM | 64.4244 | 75.227 |
| 11/13/2023 | 195 | 10:31:41 AM | 63.7793 | 75.22 |
| 11/13/2023 | 200 | 10:36:41 AM | 63.6624 | 75.228 |
| 11/13/2023 | 205 | 10:41:41 AM | 63.0385 | 75.207 |
| 11/13/2023 | 210 | 10:46:41 AM | 62.6757 | 75.218 |
| 11/13/2023 | 215 | 10:51:41 AM | 62.9176 | 75.2 |
| 11/13/2023 | 220 | 10:56:41 AM | 62.8006 | 75.213 |
| 11/13/2023 | 225 | 11:01:41 AM | 62.1184 | 75.214 |
| 11/13/2023 | 230 | 11:06:41 AM | 61.6347 | 75.22 |
| 11/13/2023 | 235 | 11:11:41 AM | 61.0354 | 75.233 |
| 11/13/2023 | 240 | 11:16:41 AM | 61.2433 | 75.212 |
| 11/13/2023 | 245 | 11:21:41 AM | 60.8678 | 75.221 |
| 11/13/2023 | 250 | 11:26:41 AM | 60.4969 | 75.22 |
| 11/13/2023 | 255 | 11:31:41 AM | 60.2553 | 75.215 |
| 11/13/2023 | 260 | 11:36:41 AM | 59.856 | 75.22 |
| 11/13/2023 | 265 | 11:41:41 AM | 59.2536 | 75.217 |
| 11/13/2023 | 270 | 11:46:41 AM | 59.6873 | 75.229 |
| 11/13/2023 | 275 | 11:51:41 AM | 59.2399 | 75.233 |
| 11/13/2023 | 280 | 11:56:41 AM | 58.5264 | 75.206 |
| 11/13/2023 | 285 | 12:01:41 PM | 59.1015 | 75.207 |
| 11/13/2023 | 290 | 12:06:41 PM | 58.6633 | 75.21 |
| 11/13/2023 | 295 | 12:11:41 PM | 58.2912 | 75.226 |
| 11/13/2023 | 300 | 12:16:41 PM | 58.0716 | 75.207 |
| 11/13/2023 | 305 | 12:21:41 PM | 57.8171 | 75.214 |
| 11/13/2023 | 310 | 12:26:41 PM | 57.4938 | 75.202 |
| 11/13/2023 | 315 | 12:31:41 PM | 55.2103 | 75.23 |
| 11/13/2023 | 320 | 12:36:41 PM | 54.639 | 75.245 |
| 11/13/2023 | 325 | 12:41:41 PM | 54.4075 | 75.219 |
| 11/13/2023 | 330 | 12:46:41 PM | 54.4318 | 75.215 |
| 11/13/2023 | 335 | 12:51:41 PM | 54.0178 | 75.214 |
| 11/13/2023 | 340 | 12:56:41 PM | 53.6559 | 75.211 |
| 11/13/2023 | 345 | 1:01:41 PM | 53.6231 | 75.189 |
| 11/13/2023 | 350 | 1:06:41 PM | 53.0375 | 75.181 |
| 11/13/2023 | 355 | 1:11:41 PM | 53.0582 | 75.184 |
| 11/13/2023 | 360 | 1:16:41 PM | 52.8464 | 75.172 |
| 11/13/2023 | 365 | 1:21:41 PM | 52.7111 | 75.206 |
| 11/13/2023 | 370 | 1:26:41 PM | 52.7247 | 75.155 |
| 11/13/2023 | 375 | 1:31:41 PM | 52.1055 | 75.162 |
| 11/13/2023 | 380 | 1:36:41 PM | 51.6088 | 75.17 |
| 11/13/2023 | 385 | 1:41:41 PM | 51.8544 | 75.189 |
| 11/13/2023 | 390 | 1:46:41 PM | 51.3878 | 75.185 |
| 11/13/2023 | 395 | 1:51:41 PM | 51.5565 | 75.198 |
| 11/13/2023 | 400 | 1:56:41 PM | 50.8867 | 75.186 |
| 11/13/2023 | 405 | 2:01:41 PM | 50.603 | 75.154 |
| 11/13/2023 | 410 | 2:06:41 PM | 50.5711 | 75.147 |
| 11/13/2023 | 415 | 2:11:41 PM | 50.5299 | 75.14 |
| 11/13/2023 | 420 | 2:16:41 PM | 50.3251 | 75.131 |
| 11/13/2023 | 425 | 2:21:41 PM | 50.1009 | 75.12 |
| 11/13/2023 | 430 | 2:26:41 PM | 49.7942 | 75.145 |
| 11/13/2023 | 435 | 2:31:41 PM | 49.8979 | 75.144 |
| 11/13/2023 | 440 | 2:36:41 PM | 49.504 | 75.139 |
| 11/13/2023 | 445 | 2:41:41 PM | 49.7298 | 75.15 |
| 11/13/2023 | 450 | 2:46:41 PM | 49.2863 | 75.168 |
| 11/13/2023 | 455 | 2:51:41 PM | 49.0274 | 75.18 |
| 11/13/2023 | 460 | 2:56:41 PM | 49.0524 | 75.154 |
| 11/13/2023 | 465 | 3:01:41 PM | 48.5225 | 75.155 |
| 11/13/2023 | 470 | 3:06:41 PM | 48.4022 | 75.151 |
| 11/13/2023 | 475 | 3:11:41 PM | 48.2131 | 75.155 |
| 11/13/2023 | 480 | 3:16:41 PM | 47.6842 | 75.157 |
| 11/13/2023 | 485 | 3:21:41 PM | 47.3437 | 75.17 |
| 11/13/2023 | 490 | 3:26:41 PM | 47.5797 | 75.161 |
| 11/13/2023 | 495 | 3:31:41 PM | 47.2216 | 75.162 |
| 11/13/2023 | 500 | 3:36:41 PM | 46.8112 | 75.159 |
| 11/13/2023 | 505 | 3:41:41 PM | 46.7416 | 75.152 |
| 11/13/2023 | 510 | 3:46:41 PM | 46.3811 | 75.157 |
| 11/13/2023 | 515 | 3:51:41 PM | 46.6641 | 75.191 |
| 11/13/2023 | 520 | 3:56:41 PM | 46.0627 | 75.164 |
| 11/13/2023 | 525 | 4:01:41 PM | 45.7171 | 75.153 |
| 11/13/2023 | 530 | 4:06:41 PM | 45.7037 | 75.146 |
| 11/13/2023 | 535 | 4:11:41 PM | 45.2633 | 75.156 |
| 11/13/2023 | 540 | 4:16:41 PM | 45.5433 | 75.163 |
| 11/13/2023 | 545 | 4:21:41 PM | 45.3469 | 75.158 |
| 11/13/2023 | 550 | 4:26:41 PM | 45.4327 | 75.115 |

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| 11/13/2023 | 555 | 4:31:41 PM | 44.9423 | 75.107 |
| 11/13/2023 | 560 | 4:36:41 PM | 44.8206 | 75.116 |
| 11/13/2023 | 565 | 4:41:41 PM | 44.4804 | 75.117 |
| 11/13/2023 | 570 | 4:46:41 PM | 44.5967 | 75.149 |
| 11/13/2023 | 575 | 4:51:41 PM | 44.6755 | 75.171 |
| 11/13/2023 | 580 | 4:56:41 PM | 43.9958 | 75.127 |
| 11/13/2023 | 585 | 5:01:41 PM | 44.1504 | 75.172 |
| 11/13/2023 | 590 | 5:06:41 PM | 43.7988 | 75.151 |
| 11/13/2023 | 595 | 5:11:41 PM | 43.6804 | 75.102 |
| 11/13/2023 | 600 | 5:16:41 PM | 43.5238 | 75.121 |
| 11/13/2023 | 605 | 5:21:41 PM | 43.5271 | 75.143 |
| 11/13/2023 | 610 | 5:26:41 PM | 43.7696 | 75.141 |
| 11/13/2023 | 615 | 5:31:41 PM | 42.9867 | 75.121 |
| 11/13/2023 | 620 | 5:36:41 PM | 43.4335 | 75.136 |
| 11/13/2023 | 625 | 5:41:41 PM | 43.0343 | 75.135 |
| 11/13/2023 | 630 | 5:46:41 PM | 43.1019 | 75.131 |
| 11/13/2023 | 635 | 5:51:41 PM | 42.3373 | 75.133 |
| 11/13/2023 | 640 | 5:56:41 PM | 42.1442 | 75.135 |
| 11/13/2023 | 645 | 6:01:41 PM | 42.7062 | 75.13 |
| 11/13/2023 | 650 | 6:06:41 PM | 42.3654 | 75.134 |
| 11/13/2023 | 655 | 6:11:41 PM | 42.0387 | 75.143 |
| 11/13/2023 | 660 | 6:16:41 PM | 42.0181 | 75.148 |
| 11/13/2023 | 665 | 6:21:41 PM | 41.964 | 75.153 |
| 11/13/2023 | 670 | 6:26:41 PM | 41.5376 | 75.138 |
| 11/13/2023 | 675 | 6:31:41 PM | 41.8493 | 75.14 |
| 11/13/2023 | 680 | 6:36:41 PM | 41.802 | 75.155 |
| 11/13/2023 | 685 | 6:41:41 PM | 41.6861 | 75.153 |
| 11/13/2023 | 690 | 6:46:41 PM | 41.5522 | 75.155 |
| 11/13/2023 | 695 | 6:51:41 PM | 41.0879 | 75.147 |
| 11/13/2023 | 700 | 6:56:41 PM | 41.1085 | 75.158 |
| 11/13/2023 | 705 | 7:01:41 PM | 40.7454 | 75.143 |
| 11/13/2023 | 710 | 7:06:41 PM | 40.8588 | 75.154 |
| 11/13/2023 | 715 | 7:11:41 PM | 41.0956 | 75.112 Completion of 12-Hour Pump Test and Start of Recovery (7:15 PM) |
| 11/13/2023 | | 7:16:41 PM | 107.133 | 74.969 |
| 11/13/2023 | | 7:21:41 PM | 124.853 | 74.919 |
| 11/13/2023 | | 7:26:41 PM | 130.399 | 74.951 |
| 11/13/2023 | | 7:31:41 PM | 133.919 | 74.953 |
| 11/13/2023 | | 7:36:41 PM | 136.557 | 74.946 |
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| 11/14/2023 | 1:06:41 AM | 166.196 | 73.877 |
| 11/14/2023 | 1:11:41 AM | 166.325 | 73.873 |
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| 11/14/2023 | 11:31:41 AM | 175.375 | 73.699 |
| 11/14/2023 | 11:36:41 AM | 175.415 | 73.699 |
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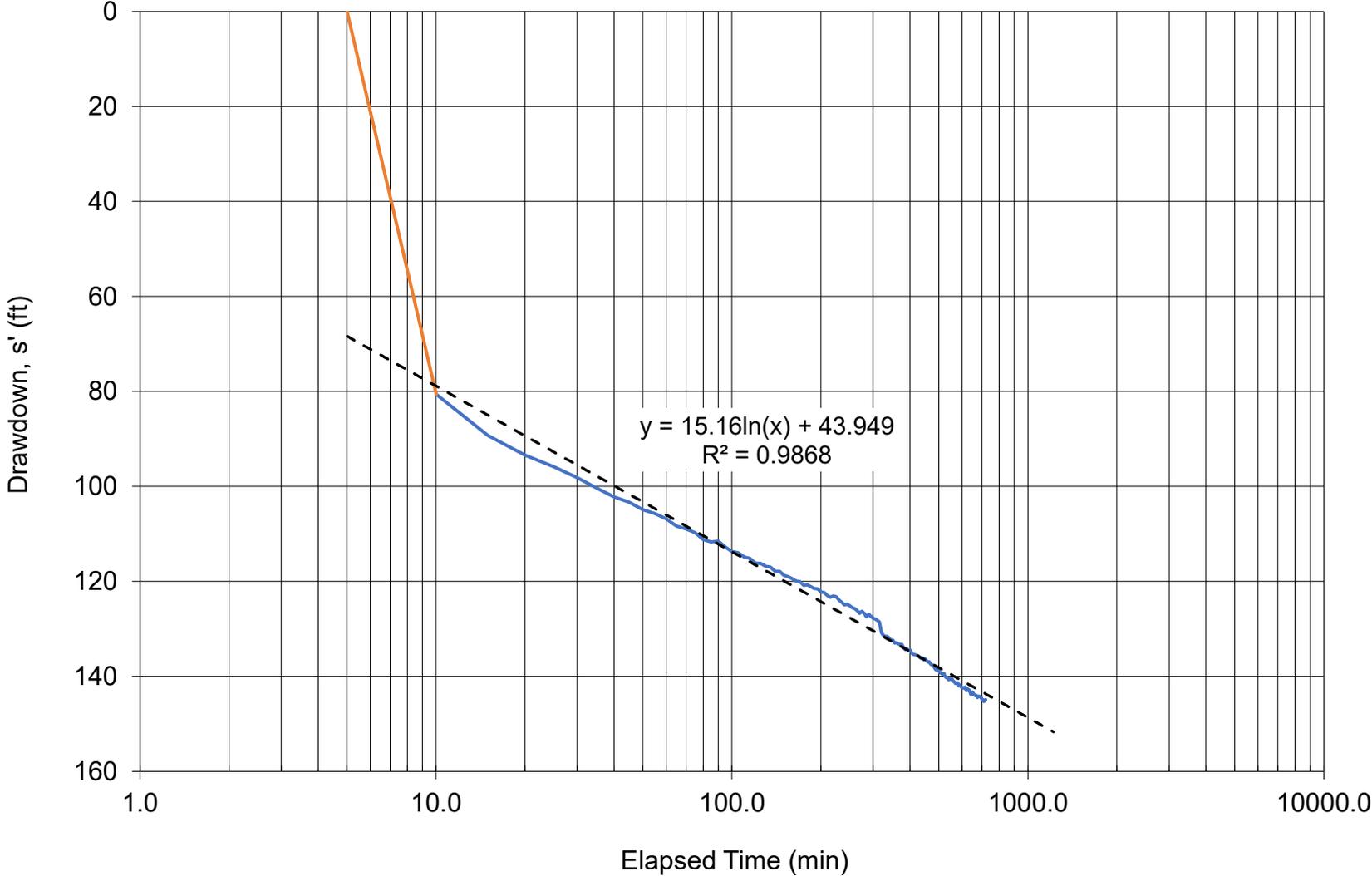
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| 11/14/2023 | 9:41:41 PM | 179.029 | 73.676 |
| 11/14/2023 | 9:46:41 PM | 179.04 | 73.678 |
| 11/14/2023 | 9:51:41 PM | 179.062 | 73.672 |
| 11/14/2023 | 9:56:41 PM | 179.086 | 73.676 |
| 11/14/2023 | 10:01:41 PM | 179.113 | 73.674 |
| 11/14/2023 | 10:06:41 PM | 179.127 | 73.675 |
| 11/14/2023 | 10:11:41 PM | 179.158 | 73.675 |
| 11/14/2023 | 10:16:41 PM | 179.173 | 73.674 |
| 11/14/2023 | 10:21:41 PM | 179.185 | 73.675 |
| 11/14/2023 | 10:26:41 PM | 179.211 | 73.671 |
| 11/14/2023 | 10:31:41 PM | 179.229 | 73.674 |
| 11/14/2023 | 10:36:41 PM | 179.252 | 73.673 |
| 11/14/2023 | 10:41:41 PM | 179.276 | 73.67 |
| 11/14/2023 | 10:46:41 PM | 179.298 | 73.672 |
| 11/14/2023 | 10:51:41 PM | 179.315 | 73.672 |
| 11/14/2023 | 10:56:41 PM | 179.341 | 73.673 |
| 11/14/2023 | 11:01:41 PM | 179.358 | 73.674 |
| 11/14/2023 | 11:06:41 PM | 179.376 | 73.673 |
| 11/14/2023 | 11:11:41 PM | 179.394 | 73.675 |
| 11/14/2023 | 11:16:41 PM | 179.415 | 73.672 |
| 11/14/2023 | 11:21:41 PM | 179.435 | 73.675 |
| 11/14/2023 | 11:26:41 PM | 179.454 | 73.669 |
| 11/14/2023 | 11:31:41 PM | 179.472 | 73.673 |
| 11/14/2023 | 11:36:41 PM | 179.492 | 73.674 |
| 11/14/2023 | 11:41:41 PM | 179.519 | 73.671 |
| 11/14/2023 | 11:46:41 PM | 179.536 | 73.669 |
| 11/14/2023 | 11:51:41 PM | 179.551 | 73.671 |
| 11/14/2023 | 11:56:41 PM | 179.568 | 73.671 |
| 11/15/2023 | 12:01:41 AM | 179.591 | 73.673 |
| 11/15/2023 | 12:06:41 AM | 179.607 | 73.675 |
| 11/15/2023 | 12:11:41 AM | 179.625 | 73.67 |
| 11/15/2023 | 12:16:41 AM | 179.64 | 73.668 |
| 11/15/2023 | 12:21:41 AM | 179.665 | 73.67 |
| 11/15/2023 | 12:26:41 AM | 179.685 | 73.67 |
| 11/15/2023 | 12:31:41 AM | 179.7 | 73.668 |
| 11/15/2023 | 12:36:41 AM | 179.715 | 73.669 |
| 11/15/2023 | 12:41:41 AM | 179.734 | 73.667 |
| 11/15/2023 | 12:46:41 AM | 179.748 | 73.666 |
| 11/15/2023 | 12:51:41 AM | 179.767 | 73.668 |
| 11/15/2023 | 12:56:41 AM | 179.784 | 73.667 |

| | | | |
|------------|------------|---------|--------|
| 11/15/2023 | 1:01:41 AM | 179.8 | 73.666 |
| 11/15/2023 | 1:06:41 AM | 179.817 | 73.667 |
| 11/15/2023 | 1:11:41 AM | 179.84 | 73.667 |
| 11/15/2023 | 1:16:41 AM | 179.853 | 73.664 |
| 11/15/2023 | 1:21:41 AM | 179.868 | 73.664 |
| 11/15/2023 | 1:26:41 AM | 179.88 | 73.667 |
| 11/15/2023 | 1:31:41 AM | 179.908 | 73.662 |
| 11/15/2023 | 1:36:41 AM | 179.925 | 73.661 |
| 11/15/2023 | 1:41:41 AM | 179.95 | 73.666 |
| 11/15/2023 | 1:46:41 AM | 179.964 | 73.665 |
| 11/15/2023 | 1:51:41 AM | 179.991 | 73.668 |
| 11/15/2023 | 1:56:41 AM | 179.998 | 73.666 |
| 11/15/2023 | 2:01:41 AM | 180.021 | 73.666 |
| 11/15/2023 | 2:06:41 AM | 180.041 | 73.667 |
| 11/15/2023 | 2:11:41 AM | 180.056 | 73.666 |
| 11/15/2023 | 2:16:41 AM | 180.067 | 73.668 |
| 11/15/2023 | 2:21:41 AM | 180.082 | 73.671 |
| 11/15/2023 | 2:26:41 AM | 180.108 | 73.671 |
| 11/15/2023 | 2:31:41 AM | 180.123 | 73.669 |
| 11/15/2023 | 2:36:41 AM | 180.138 | 73.669 |
| 11/15/2023 | 2:41:41 AM | 180.156 | 73.674 |
| 11/15/2023 | 2:46:41 AM | 180.173 | 73.668 |
| 11/15/2023 | 2:51:41 AM | 180.192 | 73.664 |
| 11/15/2023 | 2:56:41 AM | 180.214 | 73.667 |
| 11/15/2023 | 3:01:41 AM | 180.229 | 73.667 |
| 11/15/2023 | 3:06:41 AM | 180.246 | 73.665 |
| 11/15/2023 | 3:11:41 AM | 180.26 | 73.662 |
| 11/15/2023 | 3:16:41 AM | 180.277 | 73.662 |
| 11/15/2023 | 3:21:41 AM | 180.294 | 73.663 |
| 11/15/2023 | 3:26:41 AM | 180.303 | 73.664 |
| 11/15/2023 | 3:31:41 AM | 180.325 | 73.664 |
| 11/15/2023 | 3:36:41 AM | 180.344 | 73.662 |
| 11/15/2023 | 3:41:41 AM | 180.359 | 73.661 |
| 11/15/2023 | 3:46:41 AM | 180.372 | 73.66 |
| 11/15/2023 | 3:51:41 AM | 180.391 | 73.663 |
| 11/15/2023 | 3:56:41 AM | 180.408 | 73.664 |
| 11/15/2023 | 4:01:41 AM | 180.42 | 73.665 |
| 11/15/2023 | 4:06:41 AM | 180.442 | 73.664 |
| 11/15/2023 | 4:11:41 AM | 180.459 | 73.663 |
| 11/15/2023 | 4:16:41 AM | 180.469 | 73.662 |
| 11/15/2023 | 4:21:41 AM | 180.495 | 73.664 |
| 11/15/2023 | 4:26:41 AM | 180.506 | 73.662 |
| 11/15/2023 | 4:31:41 AM | 180.519 | 73.658 |
| 11/15/2023 | 4:36:41 AM | 180.538 | 73.66 |
| 11/15/2023 | 4:41:41 AM | 180.55 | 73.66 |
| 11/15/2023 | 4:46:41 AM | 180.565 | 73.658 |
| 11/15/2023 | 4:51:41 AM | 180.58 | 73.66 |
| 11/15/2023 | 4:56:41 AM | 180.592 | 73.662 |
| 11/15/2023 | 5:01:41 AM | 180.613 | 73.662 |
| 11/15/2023 | 5:06:41 AM | 180.636 | 73.661 |
| 11/15/2023 | 5:11:41 AM | 180.65 | 73.661 |
| 11/15/2023 | 5:16:41 AM | 180.661 | 73.662 |
| 11/15/2023 | 5:21:41 AM | 180.675 | 73.661 |
| 11/15/2023 | 5:26:41 AM | 180.702 | 73.661 |
| 11/15/2023 | 5:31:41 AM | 180.717 | 73.662 |
| 11/15/2023 | 5:36:41 AM | 180.73 | 73.665 |
| 11/15/2023 | 5:41:41 AM | 180.749 | 73.659 |
| 11/15/2023 | 5:46:41 AM | 180.767 | 73.664 |
| 11/15/2023 | 5:51:41 AM | 180.78 | 73.662 |
| 11/15/2023 | 5:56:41 AM | 180.791 | 73.661 |
| 11/15/2023 | 6:01:41 AM | 180.808 | 73.664 |
| 11/15/2023 | 6:06:41 AM | 180.819 | 73.663 |
| 11/15/2023 | 6:11:41 AM | 180.835 | 73.663 |
| 11/15/2023 | 6:16:41 AM | 180.85 | 73.665 |
| 11/15/2023 | 6:21:41 AM | 180.868 | 73.666 |
| 11/15/2023 | 6:26:41 AM | 180.888 | 73.665 |
| 11/15/2023 | 6:31:41 AM | 180.903 | 73.668 |
| 11/15/2023 | 6:36:41 AM | 180.915 | 73.663 |
| 11/15/2023 | 6:41:41 AM | 180.929 | 73.667 |
| 11/15/2023 | 6:46:41 AM | 180.948 | 73.661 |
| 11/15/2023 | 6:51:41 AM | 180.966 | 73.663 |
| 11/15/2023 | 6:56:41 AM | 180.979 | 73.664 |
| 11/15/2023 | 7:01:41 AM | 180.998 | 73.668 |
| 11/15/2023 | 7:06:41 AM | 181.007 | 73.664 |
| 11/15/2023 | 7:11:41 AM | 181.032 | 73.666 |
| 11/15/2023 | 7:16:41 AM | 181.048 | 73.668 |
| 11/15/2023 | 7:21:41 AM | 181.067 | 73.668 |
| 11/15/2023 | 7:26:41 AM | 181.08 | 73.663 |

| | | | |
|------------|-------------|---------|-----------------------------------|
| 11/15/2023 | 7:31:41 AM | 181.086 | 73.661 |
| 11/15/2023 | 7:36:41 AM | 181.102 | 73.665 |
| 11/15/2023 | 7:41:41 AM | 181.117 | 73.661 |
| 11/15/2023 | 7:46:41 AM | 181.137 | 73.66 |
| 11/15/2023 | 7:51:41 AM | 181.154 | 73.658 |
| 11/15/2023 | 7:56:41 AM | 181.171 | 73.659 |
| 11/15/2023 | 8:01:41 AM | 181.183 | 73.658 |
| 11/15/2023 | 8:06:41 AM | 181.203 | 73.659 |
| 11/15/2023 | 8:11:41 AM | 181.209 | 73.655 |
| 11/15/2023 | 8:16:41 AM | 181.226 | 73.656 |
| 11/15/2023 | 8:21:41 AM | 181.242 | 73.655 |
| 11/15/2023 | 8:26:41 AM | 181.253 | 73.656 |
| 11/15/2023 | 8:31:41 AM | 181.269 | 73.659 |
| 11/15/2023 | 8:36:41 AM | 181.285 | 73.658 |
| 11/15/2023 | 8:41:41 AM | 181.302 | 73.659 |
| 11/15/2023 | 8:46:41 AM | 181.312 | 73.661 |
| 11/15/2023 | 8:51:41 AM | 181.321 | 73.659 |
| 11/15/2023 | 8:56:41 AM | 181.339 | 73.658 |
| 11/15/2023 | 9:01:41 AM | 181.355 | 73.657 |
| 11/15/2023 | 9:06:41 AM | 181.36 | 73.657 |
| 11/15/2023 | 9:11:41 AM | 181.377 | 73.66 |
| 11/15/2023 | 9:16:41 AM | 181.391 | 73.663 |
| 11/15/2023 | 9:21:41 AM | 181.398 | 73.666 |
| 11/15/2023 | 9:26:41 AM | 181.42 | 73.67 |
| 11/15/2023 | 9:31:41 AM | 181.432 | 73.668 |
| 11/15/2023 | 9:36:41 AM | 181.442 | 73.668 |
| 11/15/2023 | 9:41:41 AM | 181.458 | 73.669 |
| 11/15/2023 | 9:46:41 AM | 181.475 | 73.666 |
| 11/15/2023 | 9:51:41 AM | 181.48 | 73.662 |
| 11/15/2023 | 9:56:41 AM | 181.491 | 73.659 |
| 11/15/2023 | 10:01:41 AM | 181.497 | 73.661 |
| 11/15/2023 | 10:06:41 AM | 181.513 | 73.658 |
| 11/15/2023 | 10:11:41 AM | 181.52 | 73.657 |
| 11/15/2023 | 10:16:41 AM | 181.537 | 73.658 |
| 11/15/2023 | 10:21:41 AM | 181.542 | 73.657 |
| 11/15/2023 | 10:26:41 AM | 181.547 | 73.66 |
| 11/15/2023 | 10:31:41 AM | 181.568 | 73.66 |
| 11/15/2023 | 10:36:41 AM | 181.581 | 73.656 |
| 11/15/2023 | 10:41:41 AM | 181.585 | 73.661 |
| 11/15/2023 | 10:46:41 AM | 181.607 | 73.662 |
| 11/15/2023 | 10:51:41 AM | 181.612 | 73.659 |
| 11/15/2023 | 10:56:41 AM | 181.62 | 73.66 |
| 11/15/2023 | 11:01:41 AM | 181.63 | 73.659 |
| 11/15/2023 | 11:06:41 AM | 181.636 | 73.657 |
| 11/15/2023 | 11:11:41 AM | 181.645 | 73.661 |
| 11/15/2023 | 11:16:41 AM | 181.657 | 73.658 |
| 11/15/2023 | 11:21:41 AM | 181.667 | 73.66 |
| 11/15/2023 | 11:26:41 AM | 181.687 | 73.659 |
| 11/15/2023 | 11:31:41 AM | 181.688 | 73.657 |
| 11/15/2023 | 11:36:41 AM | 181.69 | 73.655 |
| 11/15/2023 | 11:41:41 AM | 181.703 | 73.655 |
| 11/15/2023 | 11:46:41 AM | 181.719 | 73.656 |
| 11/15/2023 | 11:51:41 AM | 181.719 | 73.653 |
| 11/15/2023 | 11:56:41 AM | 181.718 | 73.654 |
| 11/15/2023 | 12:01:41 PM | 181.74 | 73.655 |
| 11/15/2023 | 12:06:41 PM | 181.746 | 73.657 |
| 11/15/2023 | 12:11:41 PM | 181.749 | 73.657 |
| 11/15/2023 | 12:16:41 PM | 181.761 | 73.654 |
| 11/15/2023 | 12:21:41 PM | 181.767 | 73.658 |
| 11/15/2023 | 12:26:41 PM | 181.773 | 73.653 |
| 11/15/2023 | 12:31:41 PM | 181.78 | 73.654 |
| 11/15/2023 | 12:36:41 PM | 181.778 | 73.653 |
| 11/15/2023 | 12:41:41 PM | 181.786 | 73.657 |
| 11/15/2023 | 12:46:41 PM | 181.798 | 73.657 |
| 11/15/2023 | 12:51:41 PM | 181.805 | 73.661 |
| 11/15/2023 | 12:56:41 PM | 181.811 | 73.666 |
| 11/15/2023 | 1:01:41 PM | 181.828 | 73.663 |
| 11/15/2023 | 1:06:41 PM | 181.827 | 73.661 |
| 11/15/2023 | 1:11:41 PM | 181.846 | 73.657 |
| 11/15/2023 | 1:16:41 PM | 181.844 | 73.657 |
| 11/15/2023 | 1:21:41 PM | 181.859 | 73.657 |
| 11/15/2023 | 1:26:41 PM | -0.0227 | 73.566 Removal of Instrumentation |

Time vs. Drawdown Pump Well



ATTACHMENT D: AQUA Water Supply Corporation Laboratory Report



Aqua WSC Laboratory
293 Industrial Blvd.
Bastrop, TX 78602
Phone
Fax 512-581-0720

11/29/2023

Lost Pines Groundwater Conservation District

PO Box 1027

Smithville, Texas 78957

RE: Final Analytical Report OrderID: 23111304

On 11/13/2023 Aqua Water Supply Corporation Laboratory (Aqua WSC Lab) received 4 samples for analysis. This final analytical report includes 6 pages, including this cover letter plus additional attachments.

This report contains results only related to the sample received referenced above. Aqua WSC Lab will not reproduce or disclose the analytical results in this report without written approval.

This report may not be reproduced, except in full, without the written consent from Aqua WSC Lab.

Aqua WSC Lab conducted sample analysis according to the methods noted in the report. The signature below authorizes this test report.

Thank you for selecting Aqua WSC Lab as your analytical laboratory. If you have any questions concerning the information in this report, please contact me at (512) 581-0705. We look forward to assisting you with your future analytical needs.

Sincerely,

A handwritten signature in black ink that reads "Shayla Ruff". The signature is written in a cursive, flowing style.

Shayla Ruff
Laboratory Director

Sample Summary

| Lab ID | Site | Matrix | Date & Time Collected | Date & Time Received |
|---------------|-------------|----------------|----------------------------------|---------------------------------|
| 23111304-01 | 1A Rambo | Drinking Water | 11/13/2023 07:15 AM | 11/13/2023 03:40 PM |
| 23111304-02 | 1B Rambo | Drinking Water | 11/13/2023 07:15 AM | 11/13/2023 03:40 PM |
| 23111304-04 | 2A Rambo | Drinking Water | 11/13/2023 01:15 PM | 11/13/2023 03:40 PM |
| 23111304-05 | 2B Rambo | Drinking Water | 11/13/2023 01:15 PM | 11/13/2023 03:40 PM |

Report Definitions

| | |
|-------|---|
| % Rec | Percent Recovery |
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification |
| DF | Dilution Factor |
| ICB | Initial Calibration Blank |
| ICV | Initial Calibration Verification |
| LFB | Laboratory Fortified Blank |
| LFM | Lab Fortified Matrix Spike |
| LOQ | Limit of Quantitation. Used as MRL and RDL |
| LRB | Laboratory Reagent Blank |
| mg/L | milligrams per liter |
| MRL | Method Reporting Limit |
| NE | Not entered because the subcontracted laboratory report contains the sample result. |
| NELAC | National Environmental Laboratory Accreditation Conference |
| PR | Not reported because report is preliminary and this analysis is not complete. |
| QC | Quality Control |
| QCS | Quality Control Sample |
| Qual | Qualifier |
| RDL | Reportable Detection Limit |
| RPD | Relative Percent Difference |
| TNI | The NELAC Institute |

Report of Analysis

For: Lost Pines Groundwater Conservation District
 PO Box 1027
 Smithville, Texas 78957

Attn:

Client Sample ID:

Lab Sample ID: 23111304-01

Site: 1A Rambo

Collection Date Time: 11/13/2023 7:15:00 AM

| Analyte | Method | Qual | DF | Sample Result | Units | LOQ | MDL | Analyst | Analysis Date Time |
|----------|------------|------|----|---------------|-------|------|--------|---------|---------------------|
| Chloride | EPA 300.0 | | 1 | 28.1 | mg/L | 5 | 0.0606 | SR | 11/17/2023 10:15 am |
| Fluoride | EPA 300.0 | N1 | 1 | <0.25 | mg/L | 0.25 | 0.0306 | SR | 11/17/2023 10:15 am |
| Nitrate | EPA 300.0 | | 1 | <1 | mg/L | 1 | 0.0327 | SR | 11/14/2023 03:55 pm |
| Sulfate | EPA 300.0 | | 1 | 41.4 | mg/L | 5 | 0.0801 | SR | 11/17/2023 10:15 am |
| TDS | SM 2540 C. | | 1 | 400.0 | mg/L | 50 | | MO | 11/15/2023 03:43 pm |

Client Sample ID:

Lab Sample ID: 23111304-02

Site: 1B Rambo

Collection Date Time: 11/13/2023 7:15:00 AM

| Analyte | Method | Qual | DF | Sample Result | Units | LOQ | MDL | Analyst | Analysis Date Time |
|-----------|-----------|------|----|---------------|-------|-----|--------|---------|---------------------|
| Calcium | EPA 200.7 | N1 | 1 | 49.5 | mg/L | 1 | 0.0406 | MO | 11/20/2023 03:34 pm |
| Magnesium | EPA 200.7 | N1 | 1 | 10.620 | mg/L | 1 | 0.0547 | MO | 11/20/2023 03:34 pm |
| Sodium | EPA 200.7 | E3 | 1 | 100.300 | mg/L | 1 | 0.1221 | MO | 11/20/2023 03:34 pm |

Client Sample ID:

Lab Sample ID: 23111304-04

Site: 2A Rambo

Collection Date Time: 11/13/2023 1:15:00 PM

| Analyte | Method | Qual | DF | Sample Result | Units | LOQ | MDL | Analyst | Analysis Date Time |
|----------|------------|------|----|---------------|-------|------|--------|---------|---------------------|
| Chloride | EPA 300.0 | | 1 | 28.1 | mg/L | 5 | 0.0606 | SR | 11/17/2023 10:15 am |
| Fluoride | EPA 300.0 | N1 | 1 | <0.25 | mg/L | 0.25 | 0.0306 | SR | 11/17/2023 10:15 am |
| Nitrate | EPA 300.0 | | 1 | <1 | mg/L | 1 | 0.0327 | SR | 11/14/2023 03:55 pm |
| Sulfate | EPA 300.0 | | 1 | 41.4 | mg/L | 5 | 0.0801 | SR | 11/17/2023 10:15 am |
| TDS | SM 2540 C. | | 1 | 420.0 | mg/L | 50 | | MO | 11/15/2023 03:43 pm |



Aqua WSC Laboratory
293 Industrial Blvd.
Bastrop, TX 78602
Phone
Fax 512-581-0720

Client Sample ID:

Site: 2B Rambo

Lab Sample ID: 23111304-05

Collection Date Time: 11/13/2023 1:15:00 PM

| <u>Analyte</u> | <u>Method</u> | <u>Qual</u> | <u>DF</u> | <u>Sample Result</u> | <u>Units</u> | <u>LOQ</u> | <u>MDL</u> | <u>Analyst</u> | <u>Analysis Date Time</u> |
|----------------|---------------|-------------|-----------|----------------------|--------------|------------|------------|----------------|---------------------------|
| Calcium | EPA 200.7 | N1 | 1 | 51.0 | mg/L | 1 | 0.0406 | MO | 11/20/2023 03:34 pm |
| Magnesium | EPA 200.7 | N1 | 1 | 10.680 | mg/L | 1 | 0.0547 | MO | 11/20/2023 03:34 pm |
| Sodium | EPA 200.7 | | 1 | 2.580 | mg/L | 1 | 0.1221 | MO | 11/20/2023 03:34 pm |

QC Results

Samples in this QCBatchID: QC2311014
 23111304-01, 23111304-04

| QC ID | Parameter | Result | Units | Spike Amt | % Rec / RPD | Control Limits | Qual |
|-----------------------------|-----------|--------|-------|-----------|-------------|----------------|------|
| LRB 1 | TDS | -4.0 | mg/L | | | < 24 | |
| 23111304-01: Duplicate 1 | TDS | 420.0 | mg/L | | 4.9 | 0.0 - 20.0 | |
| LCS 1 | TDS | 430.0 | mg/L | 500 | 86.0 | 80 - 120 | |

Samples in this QCBatchID: QC2311016
 23101105-08, 23101105-09, 23111304-01, 23111304-04

| QC ID | Parameter | Result | Units | Spike Amt | % Rec / RPD | Control Limits | Qual |
|-----------------------------|-----------|---------|-------|-----------|-------------|----------------|------|
| CCB 1 | Nitrate | <0.0327 | mg/L | | | < 0.02 | |
| ICB 1 | Nitrate | <0.0327 | mg/L | | | < 0.02 | |
| 23101105-08: Duplicate 1 | Nitrate | 8.24 | mg/L | | 0.4 | 0.0 - 20.0 | |
| CCV 1 | Nitrate | 4.77 | mg/L | 5 | 95.4 | 90 - 110 | |
| ICV 1 | Nitrate | 4.76 | mg/L | 5 | 95.3 | 90 - 110 | |
| 23101105-08: LFM 1 | Nitrate | 6.39 | mg/L | 2.5 | 0.0 | 85 - 115 | M1 |

Samples in this QCBatchID: QC2311019
 23111304-02, 23111304-05, 23111603-01

| QC ID | Parameter | Result | Units | Spike Amt | % Rec / RPD | Control Limits | Qual |
|-----------------------------|-----------|---------|-------|-----------|-------------|----------------|------|
| CCB 1 | Calcium | <0.0406 | mg/L | | | < 0.0406 | |
| ICB 1 | Calcium | <0.0406 | mg/L | | | < 0.0406 | |
| CCB 1 | Magnesium | <0.0547 | mg/L | | | < 0.0547 | |
| ICB 1 | Magnesium | <0.0547 | mg/L | | | < 0.0547 | |
| CCB 1 | Sodium | <0.1221 | mg/L | | | < 0.1221 | |
| ICB 1 | Sodium | <0.1221 | mg/L | | | < 0.1221 | |
| 23111304-02: Duplicate 1 | Calcium | 49.2 | mg/L | | 0.6 | 0.0 - 20.0 | |
| 23111304-02: Duplicate 1 | Magnesium | 10.880 | mg/L | | 2.4 | 0.0 - 20.0 | |
| 23111304-02: Duplicate 1 | Sodium | 102.200 | mg/L | | 1.8 | 0.0 - 20.0 | E3 |
| CCV 1 | Calcium | 48.8 | mg/L | 50 | 97.7 | 90 - 110 | |
| ICV 1 | Calcium | 49.3 | mg/L | 50 | 98.7 | 90 - 110 | |
| 23111304-02: LFM 1 | Calcium | 49.0 | mg/L | 25 | 0.0 | 85 - 115 | M1 |
| CCV 1 | Magnesium | 53.900 | mg/L | 50 | 107.8 | 90 - 110 | |
| ICV 1 | Magnesium | 51.580 | mg/L | 50 | 103.2 | 90 - 110 | |
| 23111304-02: LFM 1 | Magnesium | 31.740 | mg/L | 25 | 84.5 | 85 - 115 | M1 |
| CCV 1 | Sodium | 49.700 | mg/L | 50 | 99.4 | 90 - 110 | |

Samples in this QCBatchID: QC2311019
 23111304-02, 23111304-05, 23111603-01

| QC ID | Parameter | Result | Units | Spike Amt | % Rec / RPD | Control Limits | Qual |
|--------------------|-----------|--------|-------|-----------|-------------|----------------|------|
| ICV 1 | Sodium | 49.430 | mg/L | 50 | 98.9 | 90 - 110 | |
| 23111304-02: LFM 1 | Sodium | 75.300 | mg/L | 25 | 0.0 | 85 - 115 | M1 |

Samples in this QCBatchID: QC2311023
 23111304-01, 23111304-04, 23111701-01, 23111701-02, 23111701-03, 23111701-04

| QC ID | Parameter | Result | Units | Spike Amt | % Rec / RPD | Control Limits | Qual |
|-----------------------------|-----------|---------|-------|-----------|-------------|----------------|------|
| CCB 1 | Chloride | <0.0606 | mg/L | | | < 0.32 | |
| ICB 1 | Chloride | <0.0606 | mg/L | | | < 0.32 | |
| CCB 1 | Fluoride | <0.0306 | mg/L | | | < 0.2 | |
| ICB 1 | Fluoride | <0.0306 | mg/L | | | < 0.2 | |
| CCB 1 | Sulfate | <0.0801 | mg/L | | | < 0.14 | |
| ICB 1 | Sulfate | <0.0801 | mg/L | | | < 0.14 | |
| 23111701-01: Duplicate 1 | Chloride | 18.9 | mg/L | | 0.3 | 0.0 - 20.0 | |
| 23111701-01: Duplicate 1 | Fluoride | 0.9 | mg/L | | 5.4 | 0.0 - 20.0 | |
| 23111701-01: Duplicate 1 | Sulfate | 18.9 | mg/L | | 0.1 | 0.0 - 20.0 | |
| CCV 1 | Chloride | 83.1 | mg/L | 80 | 103.9 | 90 - 110 | |
| ICV 1 | Chloride | 82.9 | mg/L | 80 | 103.7 | 90 - 110 | |
| 23111701-01: LFM 1 | Chloride | 51.2 | mg/L | 40 | 81.0 | 85 - 115 | M1 |
| CCV 1 | Fluoride | 3.9 | mg/L | 4 | 97.1 | 90 - 110 | |
| ICV 1 | Fluoride | 3.9 | mg/L | 4 | 97.2 | 90 - 110 | |
| 23111701-01: LFM 1 | Fluoride | 2.4 | mg/L | 2 | 70.0 | 85 - 115 | M1 |
| CCV 1 | Sulfate | 80.3 | mg/L | 80 | 100.3 | 90 - 110 | |
| ICV 1 | Sulfate | 79.8 | mg/L | 80 | 99.8 | 90 - 110 | |
| 23111701-01: LFM 1 | Sulfate | 51.6 | mg/L | 40 | 81.9 | 85 - 115 | M1 |

Qualifiers

- E3 Analyte exceeded calibration range. Reported value is an estimate.
- M1 LFM recovery was outside the laboratory acceptance criteria due to a matrix interference; however, the LCS recovery was inside the laboratory acceptance criteria.
- N1 The laboratory is not accredited for this analyte.

AQUA

WATER SUPPLY CORPORATION
LABORATORY



Chain of Custody

Aqua Water Supply Corporation Lab
293 Industrial Boulevard
Bastrop, TX 78602
(512) 581-0705

| Priority Level | Time Frame (days) | Price Multiplier |
|-----------------|-------------------|------------------|
| Normal | 14 | X1 |
| Rush | 5 | X2 |
| Expedited | 3 | X3 |
| Next Day | 2 | X4 |
| Weekend/Holiday | 2 | X4 |

Sampler: WESTWARD

Invoice To: LPCCD

Report To: Jim Tiffen

Company Name: WESTWARD

Contact Name: LPCCD

Contact Name: Jim Tiffen

Address: 4 SHOOTING CLUB, BASTROP

Address: PO Box 1027 Sankville Tx

Address: same

Sampler (Print): GARY NICHOLS

Phone #: 512.360.5088

Phone #: same

Sampler Signature: [Signature]

E-mail: jtiffen@lppcccd.org

E-mail: jtiffen@lppcccd.org

Compliance Non-compliance

Measured Temp: 8.1 °C Corrected Temp: 8.0 °C
Thermometer ID: 3

| Site | Matrix | Date collected | Time collected Military (HH:MM) | Sample Type | Bottle Volume | Analysis Requested | Lab Sample ID Number | H ₂ SO ₄ or HNO ₃ | Preserved pH |
|----------|--------|----------------|---------------------------------|-------------|---------------|---|----------------------|--|---------------------|
| 1A RAMBO | GW | 11/13/23 | 0715 | 6448 | 2000mL | TDS, 300.0(Cl, F, SO ₄), 300.0N(NO ₃) | 2311304 - 01 | | |
| 1B RAMBO | | | | | 250mL | 200.7 (Ca, Mg, Na) | -02 | | HNO ₃ <2 |
| 1C RAMBO | | | | | 500mL | HCO ₃ , Br | -03 | | |
| 2A RAMBO | | | 1315 | | 2000mL | TDS, 300.0(Cl, F, SO ₄), 300.0N(NO ₃) | -04 | | |
| 2B RAMBO | | | | | 250mL | 200.7 (Ca, Mg, Na) | -05 | | HNO ₃ <2 |
| 2C RAMBO | | | | | 500mL | HCO ₃ , Br | -06 | | |

Comments: GW - Groundwater PH paper ID: 1249-1 *logged in as drinking water to allow tests to correlate. -16H 11/13/23

Delivered By: [Signature] Date: 11/13/23 Time: 13:54 (HH:MM)

Delivered By: [Signature] Date: 11/13/23 Time: 15:40 (HH:MM)

Rev. 3 8/14/2003
NOTE: All changes must be made with written consent.
Email khoffman@aquawsc.com to request changes.

Samples are disposed of after 30 days of receipt, unless other written instruction is given at time of delivery.



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

November 28, 2023

SHAYLA RUFF
AQUA WATER WSC
PO DRAWER P
Bastrop, TX 78602
sruff@aquawsc.com

RE: Final Analytical Report Q2348353

Attn: SHAYLA RUFF

Enclosed are the analytical results for sample(s) received by LCRA Environmental Laboratory Services. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report. This final report provides results related only to the sample(s) as received for the above referenced work order.

Thank you for selecting ELS for your analytical needs. If you have any questions regarding this report, please contact us at (512) 730-6022 or environmental.lab@lcra.org. We look forward to assisting you again.

Authorized for release by:

Ariana Dean
Account Manager
ariana.dean@lcra.org



Enclosures:
CC:CODY BOATRIGHT



LCRA Environmental Laboratory Services
 3505 Montopolis Drive
 Austin, TX 78744
 Phone (512)730-6022
 Fax (512)730-6021

Workorder: Q2348353
Workorder Description: AQUAWATERWSC_11142023
Client: AQUA WATER SUPPLY
Profile: AQUA WATER SUPPLY TESTING
Sampled By:

Report To: SHAYLA RUFF
 AQUA WATER WSC
 PO DRAWER P
 Bastrop, TX 78602

Sample Summary

| Lab ID | Sample ID | Matrix | Method | Date Collected | Date Received | Analytes Reported |
|-------------|-------------------------|--------|---------------------|------------------|------------------|-------------------|
| Q2348353001 | 2C RAMBO 23111304-06 | AQ | E300.0, Anions | 11/13/2023 13:15 | 11/14/2023 09:17 | 1 |
| Q2348353001 | 2C RAMBO 23111304-06 | AQ | SM2320B, Alkalinity | 11/13/2023 13:15 | 11/14/2023 09:17 | 5 |
| Q2348353002 | 1C RAMBO 23111304-03 | AQ | E300.0, Anions | 11/13/2023 07:15 | 11/14/2023 09:17 | 1 |
| Q2348353002 | 1C RAMBO 23111304-03 | AQ | SM2320B, Alkalinity | 11/13/2023 07:15 | 11/14/2023 09:17 | 5 |

Report Definitions

- MRL - Minimum Reporting Limit
- LOD - Limit of Detection
- ML - Maximum Limit - Client Specified
- MCL - Maximum Contaminant Level
- LOQ - Limit of Quantitation - Client Specified
- DF - Dilution Factor
- (S) - Surrogate Spike
- MDL - Method Detection Limit
- RPD - Relative Percent Difference

Qualifier Definitions

- J - Analyte detected below quantitation limit
- R - RPD outside duplicate precision limit
- S - Spike recovery outside limit
- B - Analyte detected in method blank
- N - Not Accredited
- M - Analyte Detected Above Maximum Contaminant Level
- SL - Spike Recovery Low
- SH - Spike Recovery High
- H - Analyzed Past Hold Time
- CR - Confirmed Result
- CH - Result confirmed by historical data

Workorder Summary

Quality Control Results

QC Batch: WET/29698
Preparation Method: SM2320B, Alkalinity
Associated Lab IDs: Q2348353001, Q2348353002

Analysis Method: SM2320B, Alkalinity

Limit of Quantitation Check (1997788)

| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery% | Control Limits % | Qualifier |
|---------------------------------------|-------|---------------|--------------|-----------------|------------------|-----------|
| Total Alkalinity (CaCO ₃) | mg/L | 20.0 | 22.2 | 111.0 | 70 - 130 | |

Method Reporting Limit Check (1997789)

| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery% | Control Limits % | Qualifier |
|---------------------------------------|-------|---------------|--------------|-----------------|------------------|-----------|
| Total Alkalinity (CaCO ₃) | mg/L | 20.0 | 22.1 | 111.0 | 50 - 150 | |

Method Blank(1997795)

| Parameter | Units | Results | MRL | LOD | Qualifier |
|---------------------------------------|-------|---------|------|------|-----------|
| Total Alkalinity (CaCO ₃) | mg/L | <20.0 | 20.0 | 20.0 | |

Lab Control Sample (1997794)

| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery% | Control Limits % | Qualifier |
|---------------------------------------|-------|---------------|--------------|-----------------|------------------|-----------|
| Total Alkalinity (CaCO ₃) | mg/L | 100.0 | 100.0 | 100.0 | 90 - 110 | |

Duplicate (1997793); Original Q2348315002

| Parameter | Units | Original | Duplicate | RPD | RPD Limit | Qualifier |
|---------------------------------------|-------|----------|-----------|-------|-----------|-----------|
| Total Alkalinity (CaCO ₃) | mg/L | 223. | 221.0 | 0.901 | 20 | |

Quality Control Results

QC Batch: WET/29706
Preparation Method: E300.0, Anions
Associated Lab IDs: Q2348353001, Q2348353002

Analysis Method: E300.0, Anions

Laboratory Fortified Matrix (1998527); Lab Fortified Matrix Duplicate (1998528); Original: Q2348676001

| Parameter | Units | Spiked Amount | Spike Result | %Spike Recovery | Control Limits % | Duplicate Result | %Duplicate Recovery | RPD | RPD Limit | Qualifier |
|-----------|-------|---------------|--------------|-----------------|------------------|------------------|---------------------|------|-----------|-----------|
| Bromide | mg/L | 3.0 | 2.66 | 86.6 | 80 - 120 | 2.78 | 90.3 | 4.41 | 20 | |

Limit of Quantitation Check (1998526)

| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery% | Control Limits % | Qualifier |
|-----------|-------|---------------|--------------|-----------------|------------------|-----------|
| Bromide | mg/L | 0.02 | 0.0203 | 102.0 | 70 - 130 | |

Method Reporting Limit Check (1998524)

| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery% | Control Limits % | Qualifier |
|-----------|-------|---------------|--------------|-----------------|------------------|-----------|
| Bromide | mg/L | 0.01 | 0.0096 | 96.0 | 50 - 150 | |

Laboratory Fortified Blank (1998525)

| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery% | Control Limits % | Qualifier |
|-----------|-------|---------------|--------------|-----------------|------------------|-----------|
| Bromide | mg/L | 3.0 | 3.05 | 102.0 | 90 - 110 | |

Laboratory Reagent Blank(1998522)

| Parameter | Units | Results | MRL | LOD | Qualifier |
|-----------|-------|---------|------|-------|-----------|
| Bromide | mg/L | <0.0200 | 0.02 | 0.008 | |

QC Cross Reference

| Lab ID | Sample ID | Prep Batch | Prep Method |
|--|----------------------|------------|-------------|
| WET/29698 - SM2320B, Alkalinity | | | |
| Q2348353001 | 2C RAMBO 23111304-06 | | |
| Q2348353002 | 1C RAMBO 23111304-03 | | |
| WET/29706 - E300.0, Anions | | | |
| Q2348353001 | 2C RAMBO 23111304-06 | | |
| Q2348353002 | 1C RAMBO 23111304-03 | | |



Request for Testing

[See instructions on Page 2 for sample collection.]

Please complete and return one form for each sample location (i.e., kitchen sink, outdoor faucet, well head, etc).

| | | | |
|---|----------------------------------|---|--|
| Name: <u>Agua WSC Laboratory</u> | | E-Mail: <u>sruff@aguanwsc.com</u> | |
| Address: <u>293 Industrial Blvd.</u> | | | |
| City: <u>Bastrop</u> | State: <u>Tx</u> | Zip: <u>78602</u> | |
| Home Phone: () | Work Phone: <u>(512)581-0705</u> | MATRIX Circle One <input checked="" type="checkbox"/> AQ = Aqueous <input type="checkbox"/> DW = Drinking Water | |
| Sample Collection Date: <u>11-13-23</u> | | Sample Collection Time: <u>1:15</u> | |
| Sample Location: <u>2C Rambo 2311304-06</u> | | | |

| TEST REQUESTED | PRICE | QUANTITY | TOTAL |
|--|-------|----------|-----------|
| Total Coliform – E.coli (Presence/Absence) | \$96 | | |
| Method 300.0 (Chloride, Fluoride, Nitrite, Nitrate, Sulfate) | \$82 | | |
| Method 200.7 (Iron, Calcium, Magnesium, Hardness, calculation) | \$90 | | |
| Method 200.8 - LIST METALS | \$82 | | |
| Total Dissolved Solids | \$86 | | |
| Total Organic Carbon (TOC) | \$96 | | |
| pH | \$72 | | |
| Other (Write in): <u>HCO₃ Alkalinity</u> | \$ | 1 | |
| Other (Write in): <u>Br Bromide 300.49</u> | \$ | 1 | |
| Other (Write in): | \$ | | |
| Other (Write in): | \$ | | |
| Subtotal Analytical Cost | | | \$ |

| MISCELLANEOUS CHARGES | PRICE | TOTAL |
|--|-----------|-------|
| Bottle Kit/cooler shipment (per cooler) | \$20 | |
| Sampling Services | \$125/hr. | |
| Weekend/After-hours surcharge (applies to all analytical services) | \$250 | |

| Turnaround Time Requested | PRICE MULTIPLIER | TOTAL |
|---|---------------------|-------|
| Normal Turnaround (7-10 Working Days) <input checked="" type="checkbox"/> | 1 x List Price | \$ |
| Rush Turnaround (4-6 Working Days) | 2 x cost of service | \$ |
| Urgent Turnaround (2-3 Working Days) | 3 x cost of service | \$ |
| Total Analytical Cost | | |

NOTE: Relinquishing sample(s) to ELS obligates the submitter to all ELS Standard Terms and Conditions stated on the back of this form.

| | | | |
|--|----------------------------------|--------------------------------|---|
| Sample Relinquished By: <u>Krissy Holman</u> | Date/Time: <u>11/14/23 08:37</u> | Received Temp.: <u>39</u> °C | ICE <input checked="" type="checkbox"/> N |
| Sample Received By: <u>[Signature]</u> | Date/Time: <u>11/14/23 9:17</u> | Corrected Temp.: <u>3.7</u> °C | Thermometer: <u>1210</u> |

Payment Information:

| | | | | |
|----------------------|-----------|----------------------|------------------------|-----------------|
| Amount received: \$ | Check No. | Payment Received By: | Date Payment Received: | Work Order No. |
| | | | | <u>Q2348353</u> |
| Visa/MC Approval No. | | | | |
| Comments: | | | | |



02348353
617548

July 2022



Request for Testing

[See instructions on Page 2 for sample collection.]

Please complete and return one form for each sample location (i.e., kitchen sink, outdoor faucet, well head, etc).

| | | |
|---|-------------------------------------|--|
| Name: <i>Aqua WSC Laboratory</i> | | E-Mail: <i>sruff@aquawsc.com</i> |
| Address: <i>293 Industrial Blvd.</i> | | |
| City: <i>Bastrop</i> | State: <i>Tx</i> | Zip: <i>78602</i> |
| Home Phone: () | Work Phone: <i>(512) 581-0705</i> | MATRIX: Circle One <input checked="" type="checkbox"/> AQ = Aqueous <input type="checkbox"/> DW = Drinking Water |
| Sample Collection Date: <i>11-13-23</i> | Sample Collection Time: <i>0715</i> | |
| Sample Location: <i>IC Rambo 2311304-03</i> | | |

| TEST REQUESTED | PRICE | QUANTITY | TOTAL |
|--|-------|----------|-----------|
| Total Coliform - E.coli (Presence/Absence) | \$96 | | |
| Method 300.0 (Chloride, Fluoride, Nitrite, Nitrate, Sulfate) | \$82 | | |
| Method 200.7 (Iron, Calcium, Magnesium, Hardness, calculation) | \$90 | | |
| Method 200.8 - LIST METALS | \$82 | | |
| Total Dissolved Solids | \$86 | | |
| Total Organic Carbon (TOC) | \$96 | | |
| pH | \$72 | | |
| Other (Write in): <i>HCO₃ Alkalinity</i> | \$ | 1 | |
| Other (Write in): <i>Br Bromide 300-78</i> | \$ | 1 | |
| Other (Write in): | \$ | | |
| Other (Write in): | \$ | | |
| Subtotal Analytical Cost | | | \$ |

| MISCELLANEOUS CHARGES | PRICE | TOTAL |
|--|-----------|-------|
| Bottle Kit/cooler shipment (per cooler) | \$20 | |
| Sampling Services | \$125/hr. | |
| Weekend/After-hours surcharge (applies to all analytical services) | \$250 | |

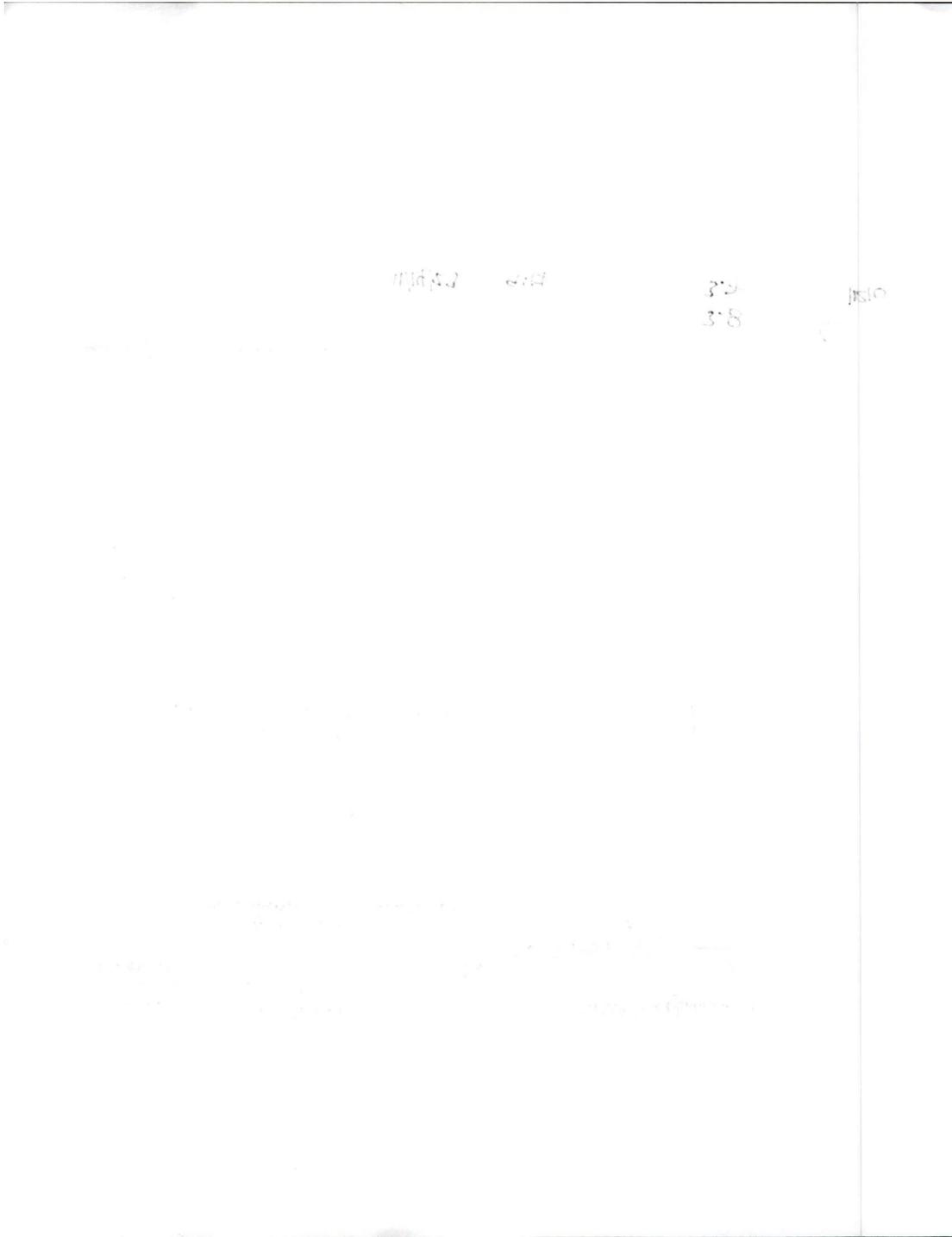
| Turnaround Time Requested | PRICE MULTIPLIER | TOTAL |
|---|---------------------|-------|
| Normal Turnaround (7-10 Working Days) <input checked="" type="checkbox"/> | 1 x List Price | \$ |
| Rush Turnaround (4-6 Working Days) | 2 x cost of service | \$ |
| Urgent Turnaround (2-3 Working Days) | 3 x cost of service | \$ |
| Total Analytical Cost | | |

NOTE: Relinquishing sample(s) to ELS obligates the submitter to all ELS Standard Terms and Conditions stated on the back of this form.

| | | | |
|--|---------------------------------|--------------------------------|--|
| Sample Relinquished By: <i>Kathy Hoffman</i> | Date/Time: <i>11/14/23 0917</i> | Received Temp.: <i>3.8</i> °C | ICE: <input checked="" type="checkbox"/> |
| Sample Received By: <i>[Signature]</i> | Date/Time: <i>11/14/23 9:17</i> | Corrected Temp.: <i>3.7</i> °C | Thermometer: <i>1210</i> |

Payment Information:

| | | | | |
|----------------------|-----------|----------------------|------------------------|----------------|
| Amount received: \$ | Check No. | Payment Received By: | Date Payment Received: | Work Order No. |
| Visa/MC Approval No. | | <i>Q2348353</i> | | |
| Comments: | | | | |



End of Report