

GROUND WATER PUMP TEST REPORT

FOR

TURTLE CREEK VINEYARDS

KERRR COUNTY, TEXAS



MAY 2025

GROUND WATER PUMP TEST REPORT

FOR

TURTLE CREEK VINEYARDS KERR, COUNTY, TEXAS

PUMP TEST for a Public Water Supply Well

Prepared for

D'Spain Sales & Service Company

335 Mason Creek Loop, Bandera, Texas

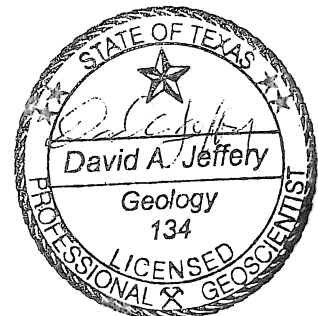
Representing

Dan Schalse

183 Fall Creek Rd, Kerrville, Texas

Prepared by

DAVID JEFFERY, P.G.
405 GETAWAY LN.
BANDERA, TEXAS 78003



MAY 2025

May 24, 2025

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1.0 INTRODUCTION

This report was prepared to evaluate the 24 hr pump test data for a public water supply well. A 24 hr pump test was selected to prevent wasting water rather than performing a 36 hr pump test. The preliminary pump test at 45 gpm indicated the well would stabilize with a drawdown of about 40' and not drawdown to the pump set at 520'. The well is to supply water to the vineyard complex. The water demand is indicated by Hewitt Engineering, Inc. to be a maximum of 35 gpm.

2.0 LOCATION

The well site is located about 1/2 mile south of FM 2771 on Fall Creek Rd which is about one mile east of state hwy 16 in Kerr County. The location of the well can be found on Figure 1, Google Earth Map of the property, and on the USGS Topographic Map, Figure 2. The surface drainage is northward to Turtle Creek which flows to the east. The coordinates of the well are Latitude 29 57' 21.38" and Longitude 99 10' 53.38" with an elevation of 1694' above sea level from Google Earth.

3.0 GEOLOGY AND HYDROGEOLOGY

3.1 GEOLOGY

Below the shallow soil profile lies the lower Glen Rose member of the Glen Rose Formation of the Comanche Series. The Glen Rose consist of limestone and some dolomite interbedded with limey marls,

Below the Glen Rose at 250 ft lies the Hensell Sand member of the Travis Peak Formation. The Hensell consists of interbedded gray siltstones, gray sandstones and limestone with some beds of red and yellow friable sands.

Underlying the Hensell sand at 280 ft is the Cow Creek Formation at the well site. The Cow Creek consists of limestones and dolomites with calcareous shales.



FIGURE 1

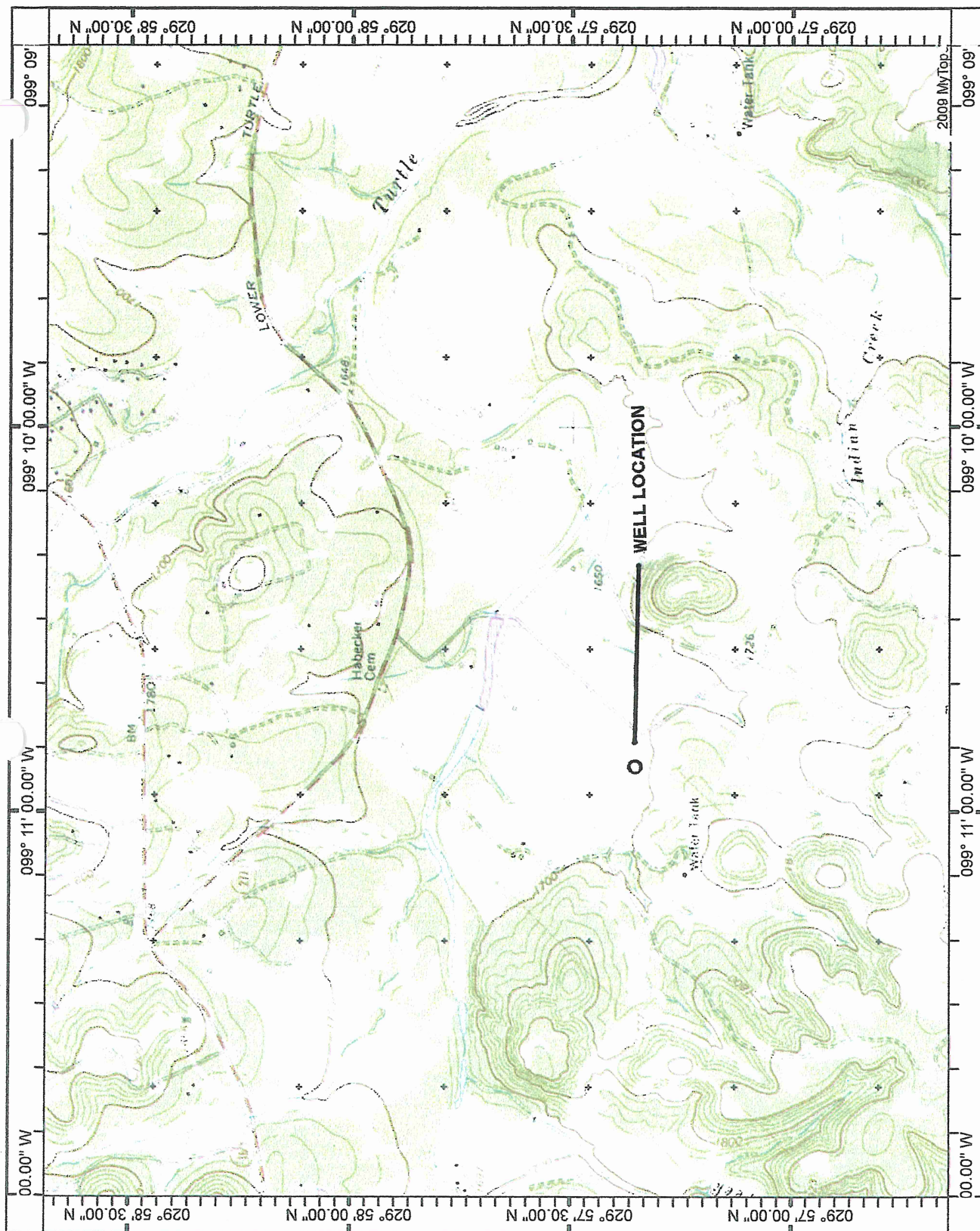
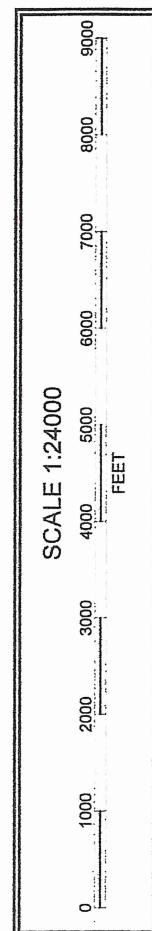


FIGURE 2



The top of the Hammett shale is about 340 ft according to the geophysical log of the well. The Hammett Shale is a member of the Travis Peak Formation and is also referred to as the Pine Island Shale. The formation is composed of dark gray shale with thin layers of silt and limestone.

The Hammett overlies the Sligo member of the Travis Peak Formation below 354 ft. The sligo is a dirty limestone with interbedded shales. The Silago overlies the Hosston Sand of the Travis Peak Formation at 370 ft. The Hosston is composed of red colored, fine to medium grained sand interbedded with siltstone and shale. The well is completed this interval to 560 ft including a basal gravel.

The formation tops were determined by the correlation of the geophysical log of this well with Headwaters GCD monitoring well logs from wells nos 2 and 18. Public data was used since well drill cuttings were not available for the formation description. A copy of the geophysical log is included in APPENDIX A.

3.2 HYDROGEOLOGY

Generally, most wells in this area produce ground water from the lower Trinity Aquifer which producers water from the Silago and Hosston Formations. The Hammett Sale is an aquitard confining the Lower Trinity aquifer from the Middle Trinity aquifer which produces water from the Lower Glen Rose and Cow Creek Formations.

The water level reported by the driller on 9/16/24 was 358 ft. The water level at the start of the pump test on 4/12/25 was measured to be 351.6 ft below the top of the casing. The top of casing is about 28 inches above ground level.

One water well is reported within a 1/4 mile radius of the Turtle Creek Vineyard well as indicated from the Texas Water Development Board well data. This well was not located and does not exist at this site. Two wells are located near the vineyard's office that are over 2000 ft from the new well. Records were not found for the old wells to determine the depth or casing in the wells.

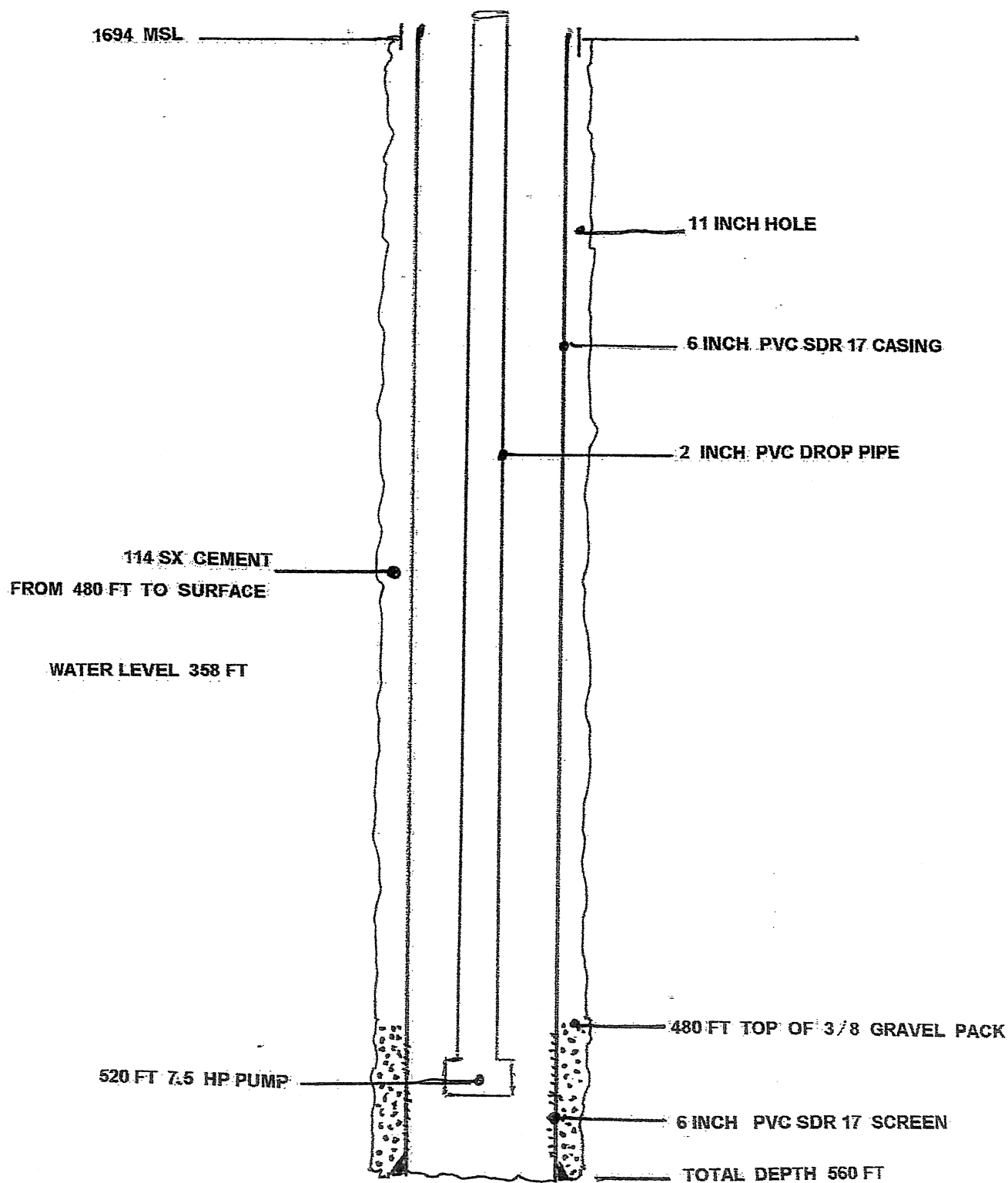
4.0 WELL CONSTRUCTION

The Turtle Creek Vineyard well was drilled on 9/16/2024 by Mocio Well Service, LLC to a total depth of 560 feet. Six inch SDR-17 PVC casing was set at 500 ft and 6 inch SDR-17 PVC screen was set from 500ft to 560 ft set in a 11 inch hole. The screen was gravel packed from 480 ft to 560 ft. The casing was cemented with 114 sacks of Portland cement by the positive displacement method from 480 ft to the surface. The water level was reported to be at 358 ft after the well was completed. A three phase 7.5 hp Goulds pump, model 45GS75 was set 1/29/25 at 520 ft on 2 in drop pipe. A general well schematic is included as FIGURE 3 and the drillers log and the geophysical log run by Geo Cam Inc. on 1/7/25 can be found in APPENDIX A.

5.0 PUMP TEST METHODOLOGY AND RESULT

The pump test on the well was conducted on 2/15-16/2023. The water level measurements were made with an E-line on the pumping well from the top of the casing at 28" above ground level. An offset well was not available to determine the Storage Coefficient of the aquifer.

The well was completed with a pump capable of producing about 45 gpm. The well was pumped during the test at an average rate of 45.3 gpm for 24 hours and shut in to monitor the recovery of the aquifer. The tabulation of the test data is found in APPENDIX B along with the analysis and graphs from a program by Starpoint Software. The result from the Theis type curve is a transmissivity of 31,590 gal/day/ft. The hydraulic conductivity is reported to be 394.9 gal/day/ft². The Theis recovery transmissivity was calculated to be 914.9 gal/day/ft. The specific capacity of the well is calculated by dividing the average pumping rate, (gpm), by the drawdown in feet. The well had an average pumping rate of 45.3 gpm with a drawdown of 40.4 feet in 24 hrs to give a specific capacity of 1.12 gal/ft.



TURTLE CREEK VINEYARD SCHEMATIC

FIGURE 3

6.0 GROUNDWATER ANALYSES

Groundwater samples were collected for analysis after pumping and taken to UGRA laboratory in Kerrville, TX. A copy of the chemical analysis is found in APPENDIX C, along with the three consecutive days of biological analyses.

The laboratory analysis reports the total dissolved solids to be 486 mg/l and a total hardness of 363.76 mg/l as calcium carbonate. The sulfates are reported to be 86 mg/l which is below the secondary drinking water limit of 300 mg/l. The nitrate and nitrite level was not detected. The fluoride is reported to be 1.3mg/l which is below the secondary maximum contaminant level of 2.0 mg/l. Chloride was reported to be 14 mg/l which is well below the limit of 300 mg/l. All of the remaining constituents tested are below the TCEQ Maximum Secondary and Primary Standards values including the radiochemistry analyses. Figures 4 and 5 contain the results of the analyses and the complete report is located in APPENDIX 3.

7.0 CONCLUSION

The well is completed in the Hosston formation which is the primary aquifer in this area for residential and agricultural wells. The pump test demonstrates the aquifer has good areal extent without local boundaries and be sufficient water supply for the Turtle Creek Vineyard. The water quality is very good for this area with total dissolved solids less than 500 mg/l.

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Lab Report

Upper Guadalupe River Authority

Date: 5/13/2025

125 Lehmann Dr. Suite 100, Kerrville, TX 78028

(830) 896-5445

TCEQ State Lab ID: T104704283

CLIENT: D'Spain Sales and Service
PO Box 1269
Bandera, TX 78003
lchacon@dspaininc.com; cguill@dspaininc.com
Ph: 8307963697

Lab Order: 2504240

Project: Turtle Creek Vineyard

System ID No: Private

Lab ID:	2504240-001	Collection Date/Time:	4/13/2025 16:00
Sample Site:	New Well	Source:	
Sampled By:	David Jeffery	Sample Type:	
Field Cl2 Total:	NA	Field Cl2 Free:	0 mg/L

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
CHLORIDE						
Chloride	14	0.20		mg/L	1	4/15/2025 11:59:00 AM
FLUORIDE						
Fluoride	1.3	0.040		mg/L	1	4/15/2025 11:59:00 AM
NITRATE AS N						
Nitrogen, Nitrate	<0.04	0.040		mg/L	1	4/15/2025 11:59:00 AM
NITRITE AS N						
Nitrogen, Nitrite	<0.04	0.040		mg/L	1	4/15/2025 11:59:00 AM
PH						
pH	7.4	0.10	Q	pH Units	1	4/14/2025 12:22:00 PM
SUBCONTRACTED TESTING WAS PERFORMED						
Subcontracted tests, see original report	see below	0			1	4/28/2025
SUBCONTRACTED TESTING WAS PERFORMED						
Subcontracted tests, see original report	see below	0			1	5/13/2025
SULFATE						
Sulfate	86	10		mg/L	50	4/15/2025 12:46:00 PM
TOTAL DISSOLVED SOLIDS						
Residue-filterable (TDS)	486	50		mg/L	1	4/15/2025

Quality Control sample results available upon request.

Suffix: (N) - NELAP Accredited Analysis

Qualifiers: O - Data qualified: see Case Narrative. All required Quality Control was acceptable unless the result is flagged with a "O" or

FIGURE 4



LABORATORY TEST RESULTS

Job ID : 25041708

Date 4/25/2025

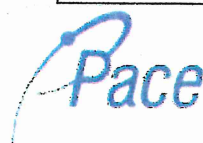
Client Name: UGRA - Upper Guadalupe River Authority
Project Name: 2504240 / Turtle Creek Vineyard

Attn: Nicole Shepherd

Client Sample ID: New Well
Date Collected: 04/13/25
Time Collected: 16:00
Other Information:

Job Sample ID: 25041708.01
Sample Matrix: Drinking Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7	Calcium ¹	66.4	mg/L	100	10			04/21/25 12:34	RT
	Iron	0.032	mg/L	1	0.01	0.3		04/21/25 12:30	RT
	Sodium	31.5	mg/L	100	10			04/21/25 12:34	RT
EPA 200.8	Metals by ICP-MS								
	Aluminum	0.0068	mg/L	1.00	0.001			04/25/25 11:59	AK
	Arsenic	0.0015	mg/L	1.00	0.0005			04/25/25 11:59	AK
	Copper	0.0008	mg/L	1.00	0.0005			04/25/25 11:59	AK
	Lead	BRL	mg/L	1.00	0.0005			04/25/25 11:59	AK
	Manganese	0.0046	mg/L	1.00	0.0005			04/25/25 11:59	AK
	Zinc	0.0089	mg/L	1.00	0.001			04/25/25 11:59	AK
SM 2320B	Alkalinity, as CaCO ₃ ²	296.3	mg/L	1	20			04/22/25 09:15	AL
SM 2340B	Hardness by ICP								
	Calcium Hardness	165.88	mg CaCO ₃ /L	100	5			04/21/25 12:34	RT
	Total Hardness	363.76	mg CaCO ₃ /L	100	13			04/21/25 12:34	RT



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Sample: New Well Lab ID: 30772921001 Collected: 04/13/25 16:00 Received: 04/18/25 09:45 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Comments: • No ID on bottles, time/date only on one bottle, project number on all bottles.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Gross Alpha	EPA 900.0	8.90 ± 1.43 (1.60) C:NA T:NA	pCi/L	05/08/25 17:18	12587-46-1	
Gross Beta	EPA 900.0	8.10 ± 0.754 (0.835) C:NA T:NA	pCi/L	05/08/25 17:18	12587-47-2	
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.997 ± 0.527 (0.545) C:NA T:90%	pCi/L	05/07/25 14:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.76 ± 0.456 (0.717) C:83% T:90%	pCi/L	05/07/25 13:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Uranium	ASTM D5174-97	3.66 ± 0.059 (0.323) C:NA T:NA	ug/L	05/05/25 13:17	7440-61-1	

FIGURE 5

APPENDIX A

WELL DRILLERS LOG & GEOPHYSICAL LOG

1.0 DRILLERS LOG

2.0 GEOPHYSICAL LOG

STATE OF TEXAS WELL REPORT for Tracking #681603

Owner:	DC & SL Enterprises, LLC	Owner Well #:	3717-P0223
Address:	183 Fall Creek Road Kerrville, TX 78028	Grid #:	69-07-5
Well Location:	183 Fall Creek Road Kerrville, TX 78028	Latitude:	29° 57' 21.4" N
	Back of property just north of the road.	Longitude:	099° 10' 53.2" W
Well County:	Kerr	Elevation:	1609 ft. above sea level
Type of Work:	New Well	Proposed Use:	Public Supply

Drilling Start Date: 9/16/2024

Drilling End Date: 9/18/2024

Plans Approved by TCEQ - YES
PWS# P0223

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	11	0	560

Drilling Method: Air Rotary

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	480	560	Gravel	3/8"

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	480	Cement 114 Bags/Sacks

Seal Method: Tremie

Sealed By: Driller

Distance to Property Line (ft.): 300

Distance to Septic Field or other
concentrated contamination (ft.): NO SEPTIC

Distance to Septic Tank (ft.): NO SEPTIC

Method of Verification: GOOGLE

Surface Completion: Surface Sleeve Installed

Surface Completion by Driller

Water Level: 358 ft. below land surface on 2024-09-18 Measurement Method: Electric Line

Packers: No Data

Type of Pump: No Data

Well Tests: Jetted Yield: 50+ GPM

	Strata Depth (ft.)	Water Type
Water Quality:	490 - 560	TRINITY
		Chemical Analysis Made: Yes
	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: Mocio Well Services, LLC
Po Box 588
Ingram, TX 78025

Driller Name: Nick Mocio License Number: 60566

Comments: TDS 324

Report Amended on 11/1/2024 by Request #43680

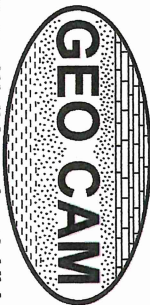
Lithology:			Casing:						
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA						
Top (ft.)	Bottom (ft.)	Description	Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)	
0	20	TOP SOIL AND CALICHE	6	Blank	New Plastic (PVC)	SDR-17	0	500	
20	260	GREY LIMESTONE/ CLAY	6	Screen	New Plastic (PVC)	SDR-17	500	560	
260	280	NO RETURNS				0.032			
280	360	GREY LIMESTONE/CLAY							
360	380	NO RETURNS							
380	480	SANDSTONE/BROWN LIMESTONE							
480	520	SAND/BROKEN SANDSTONE H2O							
520	560	PURPLE/BLUE/ORANGE, WHITE ROCK, SAND H2O							

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**



Borehole: **TURTLE CREEK VINEYARD**

Logs: **GAMMA**

Water Well Logging & Video Recording Services

Geo Cam, Inc. 17118 Classen rd. San Antonio, TX 78247 877-495-9121

Project: **TURTLE CREEK VINEYARD**

Date: 1/7/25

Client: **DSPAIN SALES & SERVICES**

County: KERR

Location: **N 29° 57' 21.4" W 99° 10' 53.2"**

State: TX

BOREHOLE DATA

Drilling Contractor: **DSPAIN SALES & SERVICES** Driller T.D. (ft) : 560'

Elevation: 1609' GPS

Logger T.D. (ft) : 560'

Depth Ref: GL

Date Drilled: N/A

BIT RECORD				CASING RECORD			
RUN	BIT SIZE (in)	FROM (ft)	TO (ft)	SIZE/WGT/THK	FROM (ft)	TO (ft)	
1	1 1/2"	0	TD	6" PVC	0	560'	
2							
3							

Drill Method: N/A

Weight:

Fluid Level (ft) : N/A

Hole Medium:

Mud Type:

Time Since Circ:

Viscosity:

Rm:

at:

Deg C

GENERAL DATA

Logged by: **WYATT E.**

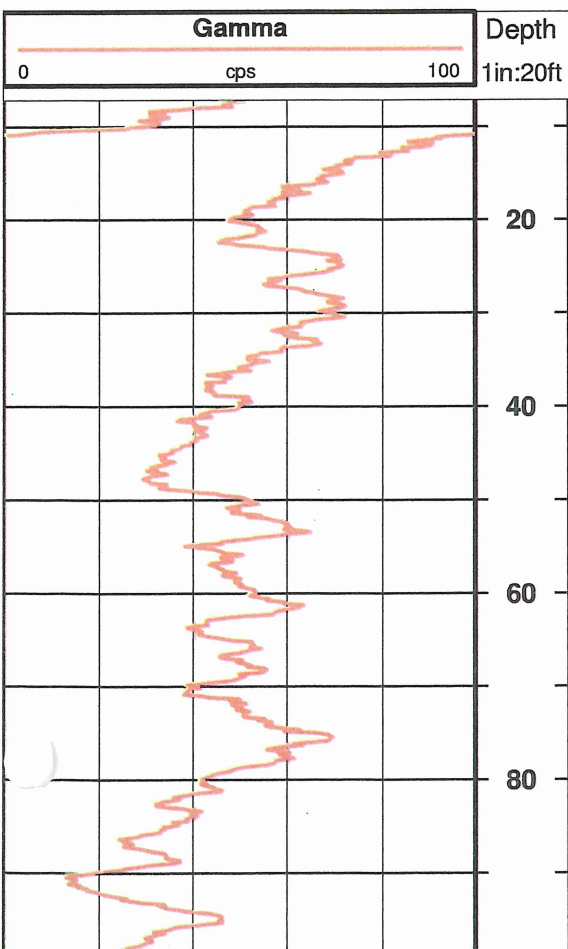
Unit/Truck: 08

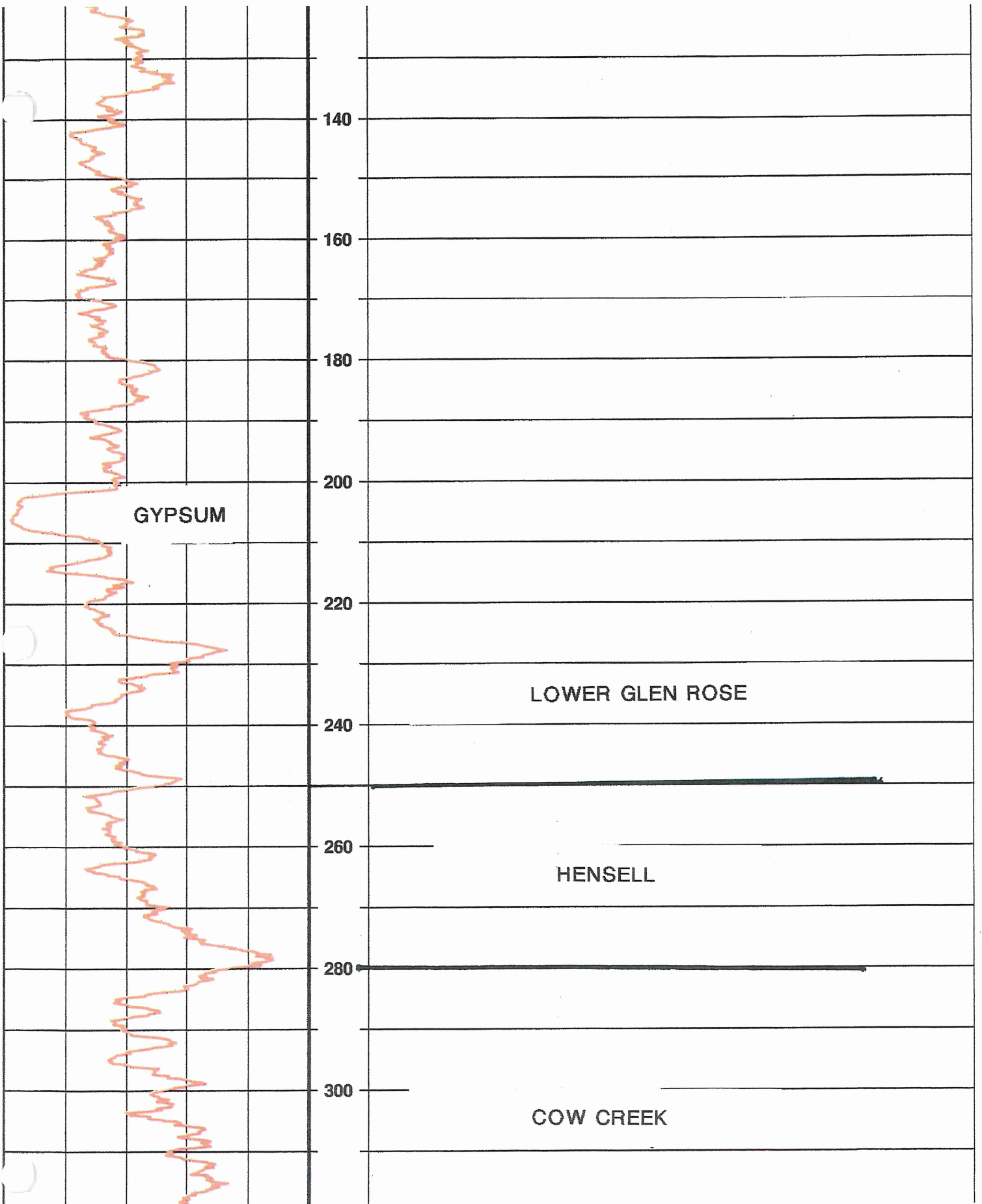
Witness: **CONNOR T.**

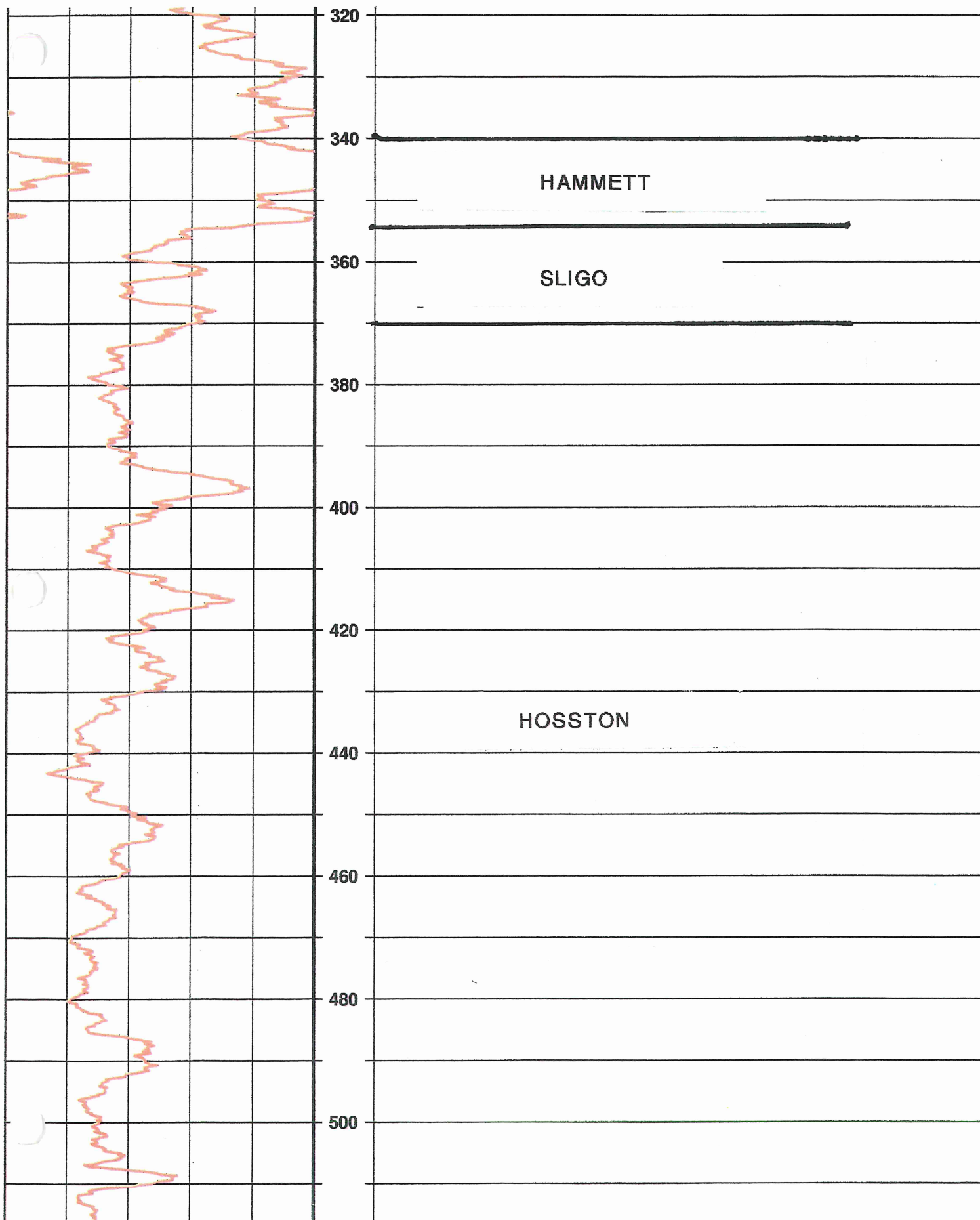
LOG TYPE	RUN NO	SPEED (ft/min)	FROM (ft)	TO (ft)	FT./IN.
GAMMA	2	35	554.4'	7.2'	20
					20
					20

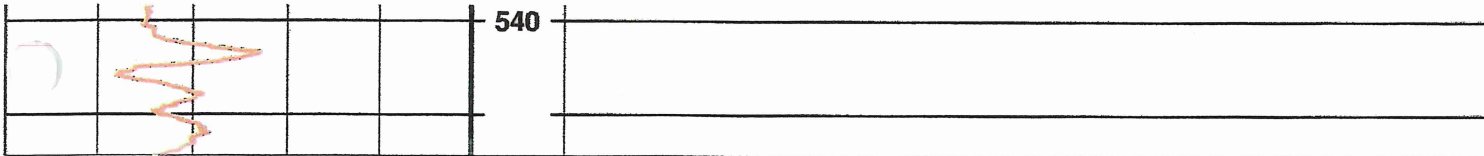
Tool Serial No.

Comments: **ALL MEASUREMENTS WERE TAKEN FROM GROUND LEVEL.**

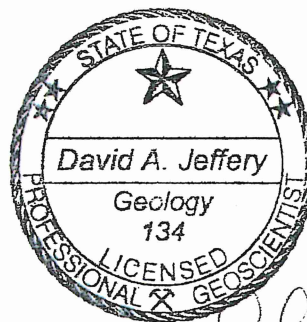








Formation tops are from correlation of Headwaters Groundwater Conservation District
monitoring Wells nos 2 and 18. Well cuttings were not available to confirm formation tops.



David A. Jeffery
May 24, 2025

APPENDIX B

PUMP TEST DATA AND GRAPHS

TURTLE CREEK VINEYARD

Location: 183 FALL CREEK RD, KERRVILLE, TX
 Test Date: 4- 12-2025
 Project Number: WELL NO. 3717

Well Discharge Rate: 45.3 Gallons/Minute
 Storativity 1.312e-003
 Well Label:
 Distance to Obs Well:

	0. feet	0. feet	0. feet	0. feet	0. feet
Aquifer Top to Screen Top:					
	0. feet	0. feet	0. feet	0. feet	0. feet
Aquifer Top to Screen Bottom:					
	0. feet	0. feet	0. feet	0. feet	0. feet

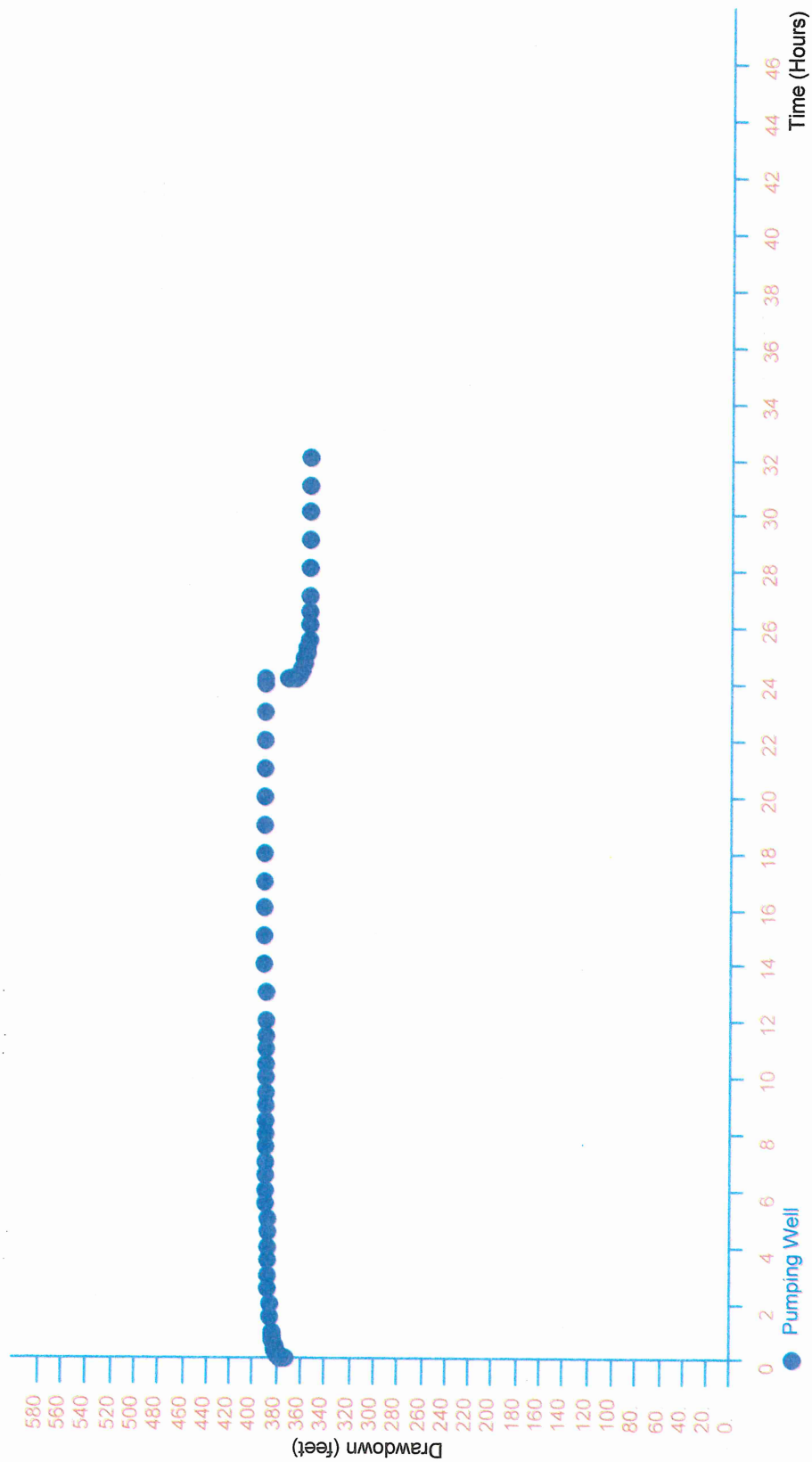
Aquifer Thickness: 80. feet
 There are 74 time and drawdown measurements
 There are 53 pumping trials

Trial	Time (Minutes)	Obs Well 1 (feet)	Obs Well 2 (feet)	Obs Well 3 (feet)	Obs Well 4 (feet)	Obs Well 5 (feet)
1	0.	351.6	0.	0.	0.	0.
2	1.	369.6	0.	0.	0.	0.
3	2.	373.5	0.	0.	0.	0.
4	3.	375.3	0.	0.	0.	0.
5	4.	376.2	0.	0.	0.	0.
6	5.	377.	0.	0.	0.	0.
7	6.	377.6	0.	0.	0.	0.
8	7.	378.	0.	0.	0.	0.
9	8.	378.5	0.	0.	0.	0.
10	9.	378.9	0.	0.	0.	0.
11	10.	379.1	0.	0.	0.	0.
12	15.	380.3	0.	0.	0.	0.
13	20.	381.2	0.	0.	0.	0.
14	25.	381.8	0.	0.	0.	0.
15	30.	382.4	0.	0.	0.	0.
16	40.	383.1	0.	0.	0.	0.
17	45.	383.6	0.	0.	0.	0.
18	50.	383.9	0.	0.	0.	0.
19	60.	384.4	0.	0.	0.	0.
20	90.	385.8	0.	0.	0.	0.
21	120.	386.5	0.	0.	0.	0.
22	150.	387.3	0.	0.	0.	0.
23	180.	387.8	0.	0.	0.	0.
24	210.	388.3	0.	0.	0.	0.
25	240.	388.7	0.	0.	0.	0.
26	270.	388.9	0.	0.	0.	0.
27	300.	389.2	0.	0.	0.	0.
28	330.	389.3	0.	0.	0.	0.
29	360.	389.7	0.	0.	0.	0.
30	390.	389.9	0.	0.	0.	0.
31	420.	389.9	0.	0.	0.	0.
32	450.	390.1	0.	0.	0.	0.
33	480.	390.3	0.	0.	0.	0.
34	510.	390.3	0.	0.	0.	0.
35	540.	390.5	0.	0.	0.	0.
36	570.	390.7	0.	0.	0.	0.
37	600.	390.7	0.	0.	0.	0.

38	630.	390.8	0.	0.	0.	0.
39	660.	390.8	0.	0.	0.	0.
40	690.	391.	0.	0.	0.	0.
41	720.	391.1	0.	0.	0.	0.
42	780.	391.2	0.	0.	0.	0.
43	840.	391.6	0.	0.	0.	0.
44	900.	391.7	0.	0.	0.	0.
45	960.	391.7	0.	0.	0.	0.
46	1020	392.	0.	0.	0.	0.
47	1080	392.	0.	0.	0.	0.
48	1140	392.1	0.	0.	0.	0.
49	1200	392.3	0.	0.	0.	0.
50	1260	392.3	0.	0.	0.	0.
51	1320	392.5	0.	0.	0.	0.
52	1380	392.5	0.	0.	0.	0.
53	1440	392.5	0.	0.	0.	0.
54	1450	392.5	0.	0.	0.	0.
55	1451	373.4	0.	0.	0.	0.
56	1452	369.4	0.	0.	0.	0.
57	1453	367.5	0.	0.	0.	0.
58	1454	366.4	0.	0.	0.	0.
59	1455	365.5	0.	0.	0.	0.
60	1465	363.1	0.	0.	0.	0.
61	1475	361.4	0.	0.	0.	0.
62	1485	360.3	0.	0.	0.	0.
63	1495	359.5	0.	0.	0.	0.
64	1505	359.	0.	0.	0.	0.
65	1515	358.4	0.	0.	0.	0.
66	1535	356.9	0.	0.	0.	0.
67	1565	356.4	0.	0.	0.	0.
68	1595	356.4	0.	0.	0.	0.
69	1625	356.	0.	0.	0.	0.
70	1685	355.7	0.	0.	0.	0.
71	1745	355.4	0.	0.	0.	0.
72	1805	355.2	0.	0.	0.	0.
73	1865	355.	0.	0.	0.	0.
74	1925	354.9	0.	0.	0.	0.

Arithmetic Graph

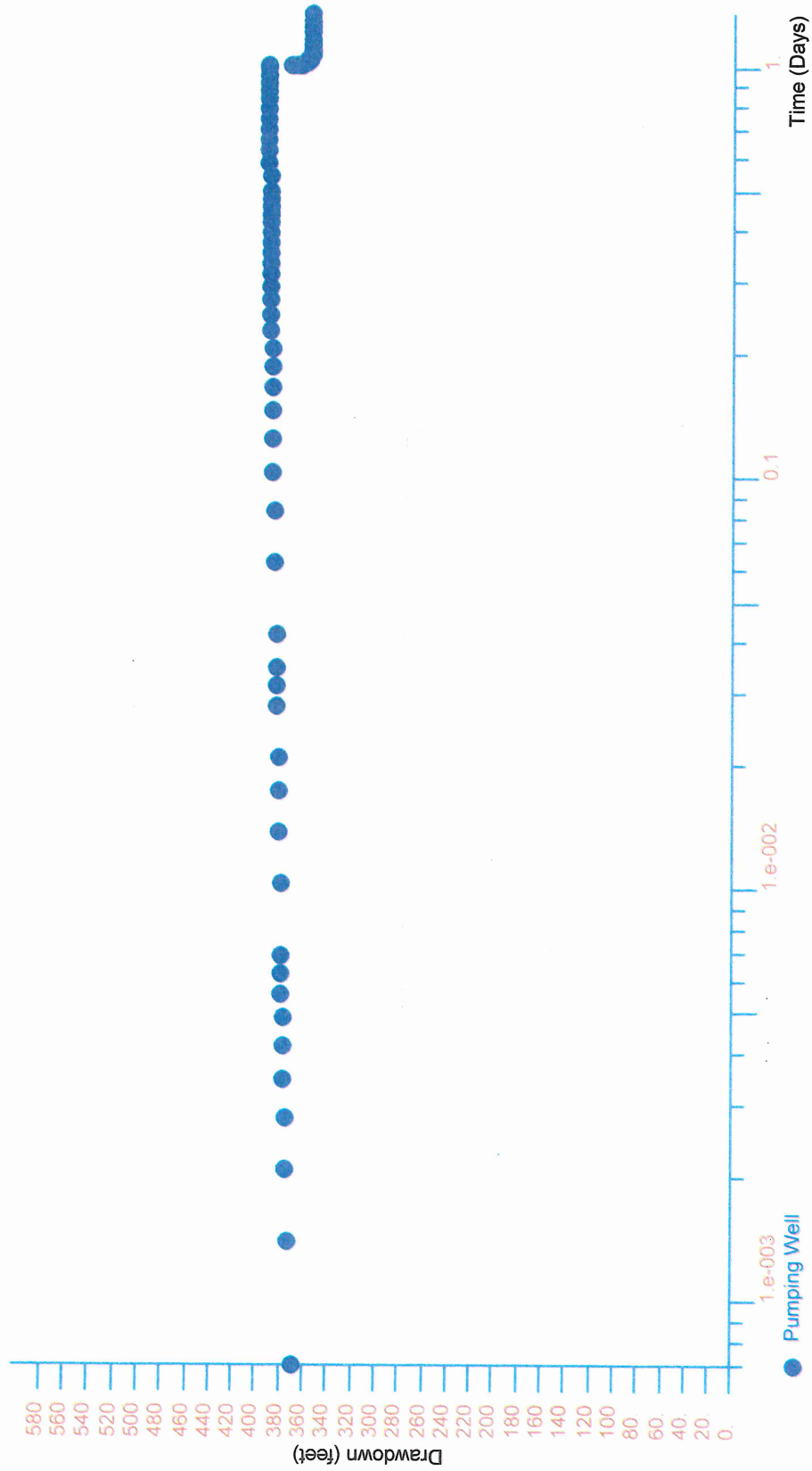
TURTLE CREEK VINEYARD 4-12-2025
183 FALL CREEK RD, KERRVILLE, TX



Project Number: WELL NO. 3717
Analyzed by Starpoint Software

Semi-Log Graph

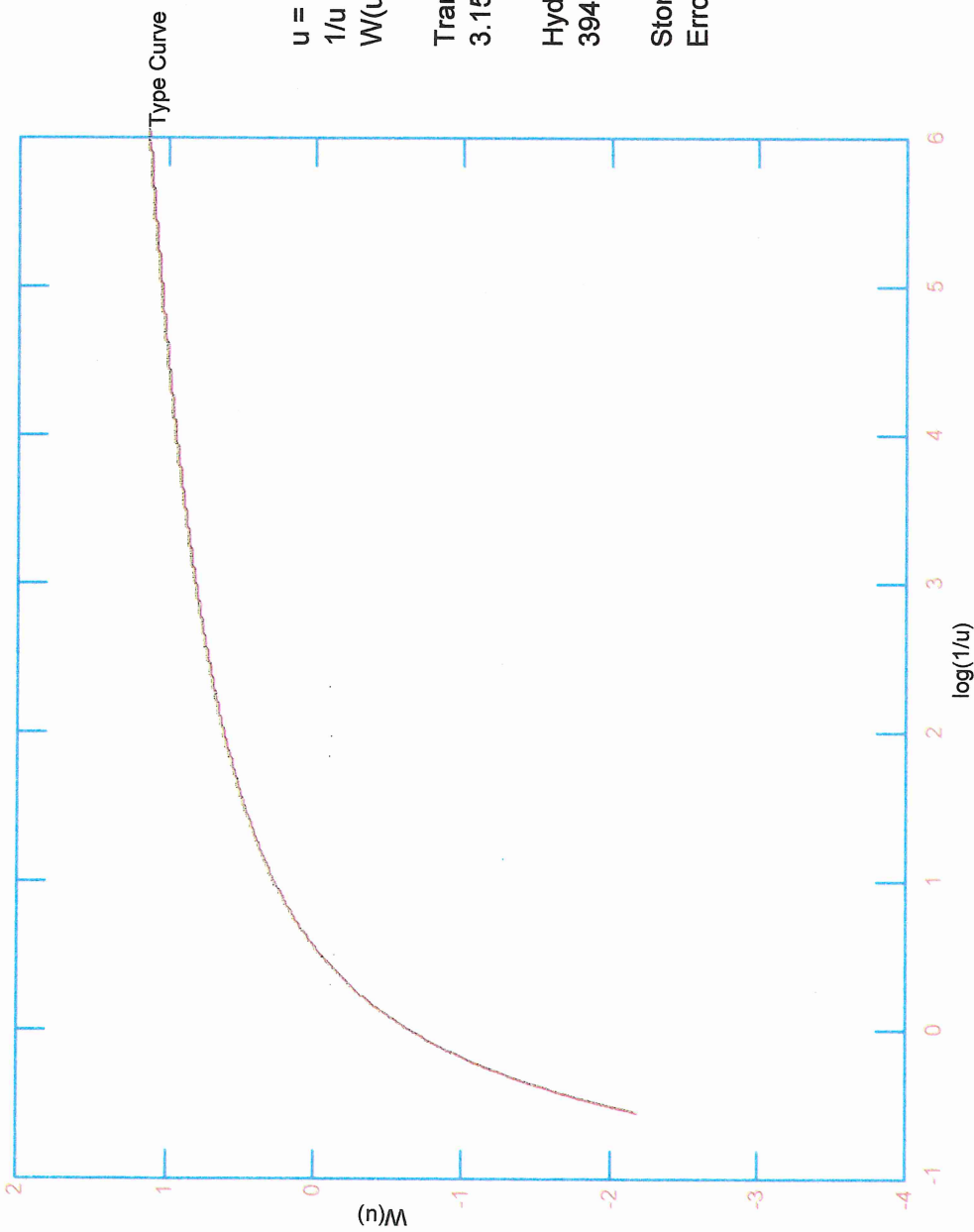
TURTLE CREEK VINEYARD 4- 12-2025
183 FALL CREEK RD, KERRVILLE, TX



Project Number: WELL NO. 3717
Analyzed by Starpoint Software

Theis Type Curve TURTLE CREEK VINEYARD 4- 12-2025

Distance to Obs Well:
0. feet



$u = 5.9e-003$
 $1/u = 169.5$
 $W(u) = 19.97$

Transmissivity
3.159e+004 gal/day/ft

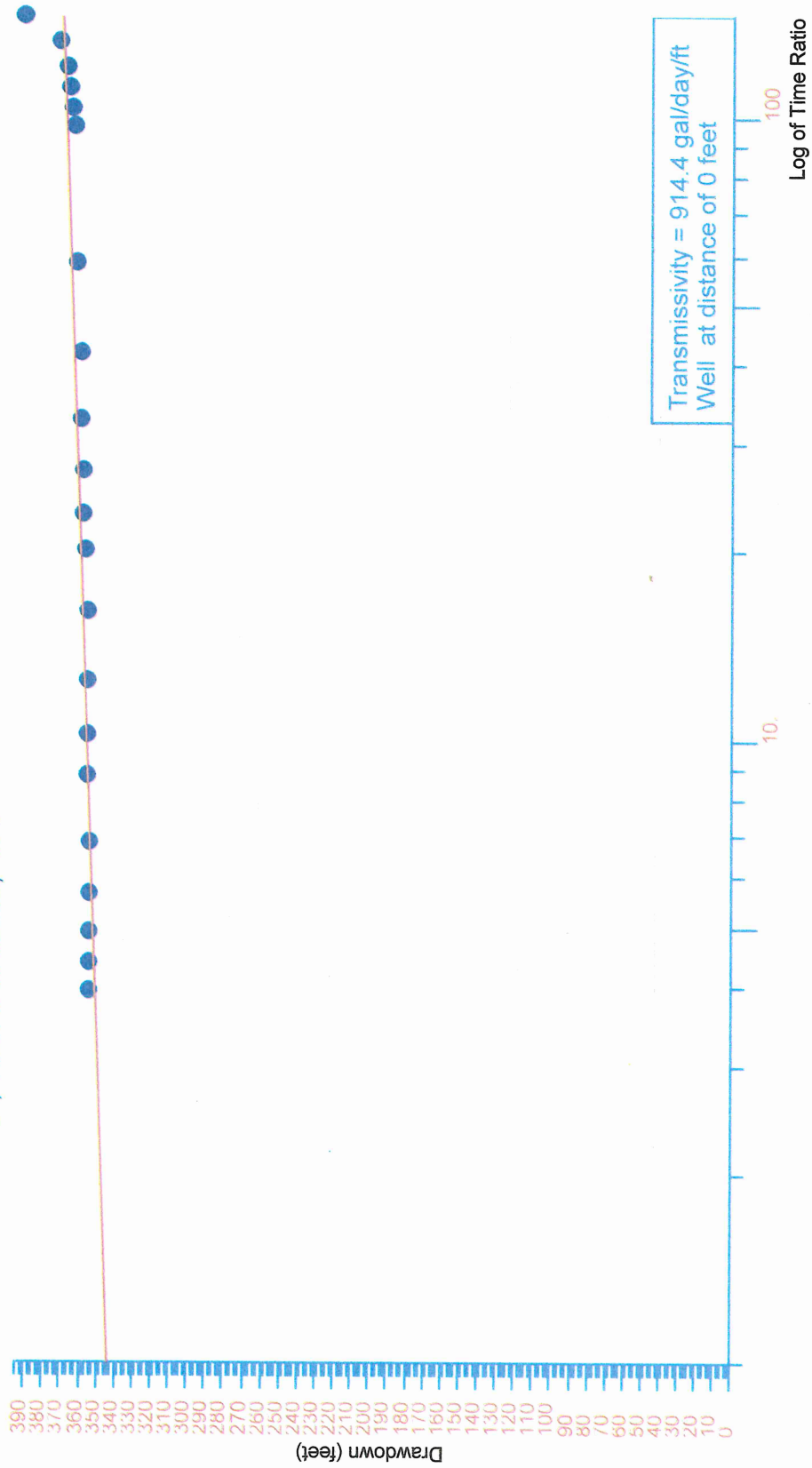
Hydraulic Conductivity
394.9 gal/day/ft²

Storativity
Error: Insufficient Radius Data

183 FALL CREEK RD, KERRVILLE, TX
Project Number: WELL NO. 3717
Analyzed by Starpoint Software
TURTLE CREEK VINEYARD 4- 12-2025

TURTLE CREEK VINEYARD 4-12-2025 **183 FALL CREEK RD, KERRVILLE, TX**

Theis Recovery



Project Number: WELL NO. 3717
 Analyzed by Starpoint Software

APPENDIX C

CHEMICAL & BIOLOGICAL GROUNDWATER ANALYSES

1.0 CHEMICAL ANALYSES

2.0 BIOLOGICAL TESTS

Lab Report

Upper Guadalupe River Authority

Date: 5/13/2025

125 Lehmann Dr. Suite 100, Kerrville, TX 78028

(830) 896-5445

TCEQ State Lab ID: T104704283

CLIENT: D'Spain Sales and Service
PO Box 1269
Bandera, TX 78003
lchacon@dspaininc.com; cguill@dspaininc.com
Ph: 8307963697

Lab Order: 2504240

Project: Turtle Creek Vineyard

System ID No: Private

Lab ID:	2504240-001	Collection Date/Time:	4/13/2025 16:00
Sample Site:	New Well	Source:	
Sampled By:	David Jeffery	Sample Type:	
Field Cl2 Total:	NA	Field Cl2 Free:	0 mg/L

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
CHLORIDE						
Chloride	14	0.20		mg/L	1	4/15/2025 11:59:00 AM
FLUORIDE						
Fluoride	1.3	0.040		mg/L	1	4/15/2025 11:59:00 AM
NITRATE AS N						
Nitrogen, Nitrate	<0.04	0.040		mg/L	1	4/15/2025 11:59:00 AM
NITRITE AS N						
Nitrogen, Nitrite	<0.04	0.040		mg/L	1	4/15/2025 11:59:00 AM
PH						
pH	7.4	0.10	Q	pH Units	1	4/14/2025 12:22:00 PM
SUBCONTRACTED TESTING WAS PERFORMED						
Subcontracted tests, see original report	see below	0			1	4/28/2025
SUBCONTRACTED TESTING WAS PERFORMED						
Subcontracted tests, see original report	see below	0			1	5/13/2025
SULFATE						
Sulfate	86	10		mg/L	50	4/15/2025 12:46:00 PM
TOTAL DISSOLVED SOLIDS						
Residue-filterable (TDS)	486	50		mg/L	1	4/15/2025

Quality Control sample results available upon request.

Suffix : (N) - NELAP Accredited Analysis

Qualifiers: Q - Data qualified: see Case Narrative. All required Quality Control was acceptable unless the result is flagged with a "Q" or otherwise noted in the Case Narrative.

Abbreviations : PQL - Practical Quantitation Limit; DF - Dilution Factor

Upper Guadalupe River Authority

Date: 5/13/2025

125 Lehmann Dr. Suite 100, Kerrville, TX 78028

(830) 896-5445

TCEQ State Lab ID: T104704283

CLIENT:	D'Spain Sales and Service PO Box 1269 Bandera, TX 78003 lchacon@dspaininc.com ; cguill@dspaininc.com Ph: 8307963697	Lab Order:	2504240
Project:	Turtle Creek Vineyard		
System ID No:	Private		

Signature: 
Nicole Shepherd, Lab Manager

Test Methods: Standard Methods for the Examination of Water and Wastewater; EPA Methods for Water and Wastewater; ASTM Int'l Standard Test Methods; Hach Methods



NELAP Accredited by TCEQ

For a list of Fields of Accreditation and current NELAP certificate, visit the Lab Services section of www.ugra.org

Confidentiality Statement: This is a confidential report for use by the addressed customer or authorized agent. This report may not be reproduced except in full.

Compliance Statement: All laboratory analyses performed in connection with the generation of the data set forth in this report were undertaken in accordance with requirements applicable to the laboratory methods used, unless otherwise noted in an attached Case Narrative. Any known problems/anomalies observed by this laboratory (and if applicable, laboratories subcontracted through this laboratory) that might affect the quality of the data have been identified in the Case Narrative. Results shown relate only to the samples tested. Any known problems associated with the quality of the samples have been identified in the Case Narrative. All required Quality Control associated with the samples was acceptable unless the result is qualified with a "Q" flag or otherwise noted in the Case Narrative. The use of the measured values in this report for regulatory compliance purposes must be evaluated by, and is solely the responsibility of, the customer.

Quality Control sample results available upon request.

Suffix : (N) - NELAP Accredited Analysis

Qualifiers: Q - Data qualified: see Case Narrative. All required Quality Control was acceptable unless the result is flagged with a "Q" or otherwise noted in the Case Narrative.

Abbreviations : PQL - Practical Quantitation Limit; DF - Dilution Factor

Upper Guadalupe River Authority**Date:** 13-May-25**CLIENT:** D'Spain Sales and Service**Project:** Turtle Creek Vineyard**Lab Order:** 2504240**CASE NARRATIVE**

Analysis of the following test(s) was performed by A and B Environmental Services Houston (NELAP Certificate No. T104704213 exp 3-31-2026, TCEQ Lab Approval ID T104704213): Metals, Alkalinity
The original report for the subcontracted testing follows this case narrative.

Analysis of the following test(s) was performed by Pace Analytical Services Greensburgh, PA (NELAP Certificate No. T104704188 exp 12-31-2025): Radionuclide testing
The original report for the subcontracted testing follows this case narrative.

pH: Sample was received at laboratory for pH analysis after the 15 minute holding time had expired.
Sample pH measured at 19.2 degrees Celsius.

Laboratory Analysis Report

Total Number of Pages: 11

Job ID : 25041708



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
2504240 / Turtle Creek Vineyard

Report To :	Client Name: UGRA - Upper Guadalupe River Authority	P.O.#: 5255
	Attn: Nicole Shepherd	Sample Collected By: David Jeffery
	Client Address: 125 Lehmann Dr. Suite 100	Date Collected: 04/13/25
	City, State, Zip: Kerrville, Texas, 78028	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
New Well	Drinking Water	25041708.01

Released By: Dhamodharan Shanmugam
Title: Reporting Associate
Date: 4/25/2025



This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2025; Expires: 03/31/2026

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 04/17/2025 10:08

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 25041708

Date: 4/25/2025

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RLU	Relative Light Unit
J	Estimation. Below calibration range but above MDL	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
LOD	Limit of detection adjusted for %M + DF	SQL	Sample Quantitation Limit
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit
MQL	Unadjusted Minimum Quantitation Limit		

Qualifier Definition

M6	Sample concentration high, more than 4X spike concentration. Control limits do not apply.
----	---

**LABORATORY TEST RESULTS**

Job ID : 25041708

Date 4/25/2025

Client Name: UGRA - Upper Guadalupe River Authority

Attn: Nicole Shepherd

Project Name: 2504240 / Turtle Creek Vineyard

Client Sample ID: New Well

Job Sample ID: 25041708.01

Date Collected: 04/13/25

Sample Matrix: Drinking Water

Time Collected: 16:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7	Calcium ¹	66.4	mg/L	100	10			04/21/25 12:34	RT
	Iron	0.032	mg/L	1	0.01	0.3		04/21/25 12:30	RT
	Sodium	31.5	mg/L	100	10			04/21/25 12:34	RT
EPA 200.8	Metals by ICP-MS								
	Aluminum	0.0068	mg/L	1.00	0.001			04/25/25 11:59	AK
	Arsenic	0.0015	mg/L	1.00	0.0005			04/25/25 11:59	AK
	Copper	0.0008	mg/L	1.00	0.0005			04/25/25 11:59	AK
	Lead	BRL	mg/L	1.00	0.0005			04/25/25 11:59	AK
	Manganese	0.0046	mg/L	1.00	0.0005			04/25/25 11:59	AK
	Zinc	0.0089	mg/L	1.00	0.001			04/25/25 11:59	AK
SM 2320B	Alkalinity, as CaCO ₃ ²	296.3	mg/L	1	20			04/22/25 09:15	AL
SM 2340B	Hardness by ICP								
	Calcium Hardness	165.88	mg CaCO ₃ /L	100	5			04/21/25 12:34	RT
	Total Hardness	363.76	mg CaCO ₃ /L	100	13			04/21/25 12:34	RT

ab-q212-0321

¹-Parameter is not accredited.²-Parameter not available for accreditation.

QUALITY CONTROL CERTIFICATE



Job ID : 25041708

Date : 4/25/2025

Analysis : Method : EPA 200.7 Reporting Units : mg/L

QC Batch ID : Qb25042162 Created Date : 04/21/25 Created By : Rajeev

Samples in This QC Batch : 25041708.01

Digestion : PB25042109 Prep Method : EPA 200.7 Prep Date : 04/21/25 08:30 Prep By : Mwisman

QC Type: Blank Result

QcType	Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
ICB	Aluminum	7429-90-5T	BRL	mg/L	1	0.01	
ICB	Calcium	7440-70-2T	BRL	mg/L	1	0.1	
ICB	Iron	7439-89-6T	BRL	mg/L	1	0.01	
ICB	Manganese	7439-96-5	BRL	mg/L	1	0.01	
ICB	Sodium	7440-23-5T	BRL	mg/L	1	0.1	
Method Blank	Aluminum	7429-90-5T	BRL	mg/L	1	0.01	
Method Blank	Calcium	7440-70-2T	BRL	mg/L	1	0.1	
Method Blank	Iron	7439-89-6T	BRL	mg/L	1	0.01	
Method Blank	Manganese	7439-96-5	BRL	mg/L	1	0.01	
Method Blank	Sodium	7440-23-5T	BRL	mg/L	1	0.1	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	● LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Aluminum	1	0.954	95.4	1	0.952	95.2	0.2	20	85-115	
Calcium	1	0.976	97.6	1	0.974	97.4	0.2	20	85-115	
Iron	1	0.969	96.9	1	0.968	96.8	0.1	20	85-115	
Manganese	1	0.976	97.6	1	0.978	97.8	0.2	20	85-115	
Sodium	1	1.014	101	1	1.002	100	1.2	20	85-115	

QC Type: MS and MSD

QC Sample ID: 25041708.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Aluminum	BRL	1	0.967	96.7						75-125	
Calcium	66.4	1	63.8	-263.8000						75-125	M6
Iron	0.032	1	0.995	96.3						75-125	
Manganese	BRL	1	0.976	97.6						75-125	
Sodium	31.5	1	29.3	-215.0000						75-125	M6

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 25041708

Date : 4/25/2025

Analysis : Hardness by ICP Method : SM 2340B Reporting Units : mg CaCO3/L

QC Batch ID : Qb25042163 Created Date : 04/21/25 Created By : Rajeev

Samples in This QC Batch : 25041708.01

Digestion : PB25042110 Prep Method : 200.7 Prep Date : 04/21/25 08:30 Prep By : Mwisman

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Method Blank	Calcium Hardness		BRL	mg CaCO3/L	1	0.05	
Method Blank	Total Hardness		BRL	mg CaCO3/L	1	0.13	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Calcium Hardness	2.5	2.44	97.6	2.5	2.43	97.2	0.4	20	80-120	
Total Hardness	6.6	6.56	99.4	6.6	6.54	99.1	0.3	20	80-120	

QC Type: MS and MSD

QC Sample ID: 25041708.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Calcium Hardness	165.88	2.5	159.29	-263.6						80-120	M6
Total Hardness	363.76	6.6	354.49	-140.5						80-120	M6

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 25041708

Date : 4/25/2025

Analysis : Method : SM 2320B Reporting Units : mg/L

QC Batch ID : Qb25042230 Created Date : 04/22/25 Created By : ALassile

Samples in This QC Batch : 25041708.01

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Method Blank	Alkalinity, as CaCO3	471-34-1	BRL	mg/L	1	20	

QC Type: Duplicate

QC Sample ID: 25041380.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Alkalinity, as CaCO3	102.1	104.1	mg/L	1.9	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Alkalinity, as CaCO3	1250	1251.3	100.0	1250	1211.2	96.9	3.3	20	80-120	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 25041708

Date : 4/25/2025

Analysis : Metals by ICP-MS

Method : EPA 200.8

Reporting Units : mg/L

QC Batch ID : Qb25042555

Created Date : 04/25/25

Created By : Abhishek

Samples in This QC Batch : 25041708.01

Digestion :

PB25042535

Prep Method : EPA 200.8

Prep Date : 04/25/25 08:30 Prep By : JYou

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Method Blank	Aluminum	7429-90-5T	BRL	mg/L	1	0.001	
Method Blank	Arsenic	7440-38-2T	BRL	mg/L	1	0.0005	
Method Blank	Copper	7440-50-8	BRL	mg/L	1	0.0005	
Method Blank	Lead	7439-92-1T	BRL	mg/L	1	0.0005	
Method Blank	Manganese	7439-96-5	BRL	mg/L	1	0.0005	
Method Blank	Zinc	7440-66-6T	BRL	mg/L	1	0.001	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Aluminum	0.05	0.0503	101	0.05	0.0511	102	1.6	20	85-115	
Arsenic	0.05	0.0490	98	0.05	0.0489	97.8	0.2	20	85-115	
Copper	0.05	0.0488	97.6	0.05	0.0485	97	0.7	20	85-115	
Lead	0.05	0.0487	97.4	0.05	0.0489	97.8	0.5	20	85-115	
Manganese	0.05	0.0512	102	0.05	0.0517	103	1	20	85-115	
Zinc	0.05	0.0505	101	0.05	0.0499	99.8	1.1	20	85-115	

QC Type: MS and MSD

QC Sample ID: 25041708.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Aluminum	0.0068	0.1	0.0999	93.1						75-125	
Arsenic	0.0015	0.1	0.1005	99						75-125	
Copper	0.0008	0.1	0.0952	94.5						75-125	
Lead	BRL	0.1	0.0961	96.1						75-125	
Manganese	0.0046	0.1	0.1068	102						75-125	
Zinc	0.0089	0.1	0.1058	96.9						75-125	

QC Type: MS2 and MSD2

QC Sample ID: 25042326.01

Parameter	Sample Result	MS2 Spk Added	MS2 Result	MS2 % Rec	MSD2 Spk Added	MSD2 Result	MSD2 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Aluminum	0.0565	0.1	0.1484	91.9						75-125	
Arsenic	BRL	0.1	0.0982	98.2						75-125	
Copper	0.0130	0.1	0.1070	94						75-125	
Lead	0.0008	0.1	0.0990	98.2						75-125	
Manganese	0.0313	0.1	0.1337	102						75-125	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 25041708

Date : 4/25/2025

Analysis : Metals by ICP-MS

Method : EPA 200.8

Reporting Units : mg/L

QC Batch ID : Qb25042555

Created Date : 04/25/25

Created By : Abhishek

Samples in This QC Batch : 25041708.01

QC Type: MS2 and MSD2

QC Sample ID: 25042326.01

Parameter	Sample Result	MS2 Spk Added	MS2 Result	MS2 % Rec	MSD2 Spk Added	MSD2 Result	MSD2 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Zinc	0.0032	0.1	0.1001	96.8						75-125	

ab-q213-0321

Refer to the Definition page for terms.

AA&B Labs

Chain of Custody

The Chain of Custody is a Legal Document

Page 1 of 1

Job ID: 25041708



04/17/2025 UGRA - Upper Guadalupe ANA

REPORT TO:

Upper Guadalupe Super Authority
225 Leimann Dr Ste 100
Kerrville, TX 78603
Attn: Sheila
(830) 896-6445

INVOICE TO:

UGRA
125 Leimann Dr Ste 100
Kerrville, TX 78603
Tammy Thompson
(830) 896-6445

5255

4. Turnaround Time (Business Days)

1 Day

2 Days

3 Days

4 Days

5 Days

6 Days

7 Days

8 Days

9 Days

10 Days

11 Days

12 Days

13 Days

14 Days

15 Days

16 Days

17 Days

18 Days

19 Days

20 Days

21 Days

22 Days

23 Days

24 Days

25 Days

26 Days

27 Days

28 Days

29 Days

30 Days

31 Days

32 Days

33 Days

34 Days

35 Days

36 Days

2504240

Turtle Creek Vineyard

7. Submittal Instructions

1. Sample Name & ID: 25041708
2. Sample Location: 1.8 EDC

3. Submitter Signature & Date

David Jeffery
0. Sample ID and Description

Sample

Date: 4/16/25 17:00

4/16/25 17:00

01AB New Well

8. Remarks

Received by:

Nicole Stephens
FedEx

Date: 4/16/25 17:00

4/16/25 17:00
4/17/25 10:08

Date: 4/16/25 17:00

4/16/25 17:00
4/17/25 10:08

Known Hazards/Comments

Known Hazards/Comments

1.4

LAB USE ONLY

SAFETY

RENTAL

RENTAL

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ORIGIN ID: EVAA (930) 896-5445
DIPPER SHEPHERD
125 LEHMANN DR
STE 100
KERRVILLE, TX 78028
UNITED STATES US

SHIP DATE: 16 APR 25
CITY: GIG 11:35:00 LB
CAD: 111623580/INET4595

BILL RECIPIENT

TO
LABORATORY
A&B LABORATORY
10100 EAST I-10
STE 100

HOUSTON TX 77029

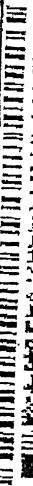
REF: SAMPLES

(713) 453-6060

INV:

PO: 5256

DEPT:



FedEx

EXPRESS



FedEx

IBK#

0201

8806 0304 5673

THU - 17 APR. AM
STANDARD OVERNIGHT

43 HBYA

77029

TX - US

IAH



M416613 04/15 1580JS/1124/C804



Sample Condition Checklist

A&B JobID : 25041708		Date Received : 04/17/2025		Time Received : 10:08AM	
Client Name : UGRA - Upper Guadalupe River Authority					
Temperature : 1.4°C		Sample pH : 7			
Thermometer ID : IR7		pH Paper ID : 125327			
Preservative :		Lot# :			

	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		X	
2.	Sample(s) in a cooler.	X		
3.	If yes, ice in cooler.	X		
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <div style="display: flex; justify-content: space-around; font-size: small;"> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative		X	
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received within the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

Sx01A preserved with 1mL HNO3 @ 10:59 4/17/25, Lot# 120310 pH<2. ~DG 4/17/25

Brought by : FedEx

Received by : DGonzalez

Check in by/date : DGonzalez / 04/17/2025

ab-s005-1123

Phone : 713-453-6060

www.ablabs.com



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 13, 2025

Nicole Shepherd
Upper Guadalupe River Authority
125 Lehmann Dr., Ste 100
Kerrville, TX 78028

RE: Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Dear Nicole Shepherd:

Enclosed are the analytical results for sample(s) received by the laboratory on April 18, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30772921001	New Well	Drinking Water	04/13/25 16:00	04/18/25 09:45

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30772921001	New Well	EPA 900.0	REH1	2	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		ASTM D5174-97	SLC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: Upper Guadalupe River Authority
Date: May 13, 2025

General Information:

1 sample was analyzed for EPA 900.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Method: EPA 903.1
Description: 903.1 Radium 226, DW
Client: Upper Guadalupe River Authority
Date: May 13, 2025

General Information:

1 sample was analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Method: EPA 904.0
Description: 904.0 Radium 228, DW
Client: Upper Guadalupe River Authority
Date: May 13, 2025

General Information:

1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Method: ASTM D5174-97
Description: D517497 Total Uranium KPA, DW
Client: Upper Guadalupe River Authority
Date: May 13, 2025

General Information:

1 sample was analyzed for ASTM D5174-97 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Sample: New Well Lab ID: 30772921001 Collected: 04/13/25 16:00 Received: 04/18/25 09:45 Matrix: Drinking Water
PWS: Site ID: Sample Type:
Comments: • No ID on bottles, time/date only on one bottle, project number on all bottles.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Gross Alpha	EPA 900.0	8.90 ± 1.43 (1.60) C:NA T:NA	pCi/L	05/08/25 17:18	12587-46-1	
Gross Beta	EPA 900.0	8.10 ± 0.754 (0.835) C:NA T:NA	pCi/L	05/08/25 17:18	12587-47-2	
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.997 ± 0.527 (0.545) C:NA T:90%	pCi/L	05/07/25 14:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.76 ± 0.456 (0.717) C:83% T:90%	pCi/L	05/07/25 13:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Uranium	ASTM D5174-97	3.66 ± 0.059 (0.323) C:NA T:NA	ug/L	05/05/25 13:17	7440-61-1	

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Greensburg, PA 15601
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QUALITY CONTROL - RADIOCHEMISTRY

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

QC Batch:	740936	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228, DW
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30772921001

METHOD BLANK: 3605788 Matrix: Drinking Water

Associated Lab Samples: 30772921001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.750 ± 0.376 (0.705) C:73% T:92%	pCi/L	05/07/25 13:56	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

QC Batch:	740934	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226, DW
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30772921001

METHOD BLANK: 3605787 Matrix: Drinking Water

Associated Lab Samples: 30772921001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0385 ± 0.169 (0.415) C:NAT:99%	pCi/L	05/07/25 14:11	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

QC Batch:	742856	Analysis Method:	ASTM D5174-97
QC Batch Method:	ASTM D5174-97	Analysis Description:	D5174.97 Total Uranium KPA, DW
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30772921001

METHOD BLANK: 3614996 Matrix: Drinking Water

Associated Lab Samples: 30772921001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Total Uranium	0.005 ± 0.001 (0.323) C:NA T:NA	ug/L	05/05/25 12:17	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

QC Batch:	742604	Analysis Method:	EPA 900.0
QC Batch Method:	EPA 900.0	Analysis Description:	900.0 Gross Alpha/Beta
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30772921001

METHOD BLANK: 3613558 Matrix: Drinking Water

Associated Lab Samples: 30772921001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.079 ± 0.745 (1.93) C:NA T:NA	pCi/L	05/06/25 08:26	
Gross Beta	-0.598 ± 0.558 (1.66) C:NA T:NA	pCi/L	05/06/25 08:26	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600


QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Turtle Creek Vineyard
Pace Project No.: 30772921

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30772921001	New Well	EPA 900.0	742604		
30772921001	New Well	EPA 903.1	740934		
30772921001	New Well	EPA 904.0	740936		
30772921001	New Well	ASTM D5174-97	742856		

REPORT OF LABORATORY ANALYSIS

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	DC# Title: ENV-FRM-GBUR-0088 v07_Sa Greensburg	WO#: 30772921
	Effective Date: 01/04/2024	PH: NNY Due Date: 05/09/25 CLIENT: UP_GUAD_RA
	Client Name: Upper Guadalupe River Auth.	

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other
Tracking Number: 8805 6759 4640

Initial / Date

Examined By: LB 4-19-25

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☒ No
Thermometer Used: _____ Type of Ice: Wet Blue ~~None~~

Labeled By: LB 4-19-25
Tamped By: _____

Cooler Temperature: Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
Chain of Custody Present	X			103241	
Chain of Custody Filled Out:	X				
-Were client corrections present on COC	X	X			
Chain of Custody Relinquished	X				
Sampler Name & Signature on COC:		X			
Sample Labels match COC:		X			
-Includes date/time/ID					
Matrix: DW					
Samples Arrived within Hold Time:	X				
Short Hold Time Analysis (<72hr remaining):		X			
Rush Turn Around Time Requested:		X			
Sufficient Volume:	X				
Correct Containers Used:	X				
-Pace Containers Used	X				
Containers Intact:	X				
Orthophosphate field filtered:			X		
Hex Cr Aqueous samples field filtered:			X		
Organic Samples checked for dichlorination			X		
Filtered volume received for dissolved tests:			X		
All containers checked for preservation:	X				
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix					
All containers meet method preservation requirements:	X			Initial when completed LB	Date/Time of Preservation
				Lot# of added Preservative	
B260C/D: Headspace in VOA Vials (> 5mm)			X		
624.1: Headspace in VOA Vials (0mm)			X		
Radon: Headspace in RAD Vials (0mm)			X		
Trip Blank Present:			X		
Rad Samples Screened <.05 mrem/hr.	X			Initial when completed RSC	Date: 4-8-25 Survey Meter SN: 2504 180
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNA Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen
Qualtrax ID: 55680

Lab Report

Upper Guadalupe River Authority

Date: 4/28/2025

125 Lehmann Dr. Suite 100, Kerrville, TX 78028

(830) 896-5445

TCEQ State Lab ID: T104704283

CLIENT: D'Spain Sales and Service
PO Box 1269
Bandera, TX 78003
lchacon@dspaininc.com; cguill@dspaininc.com
Ph: 8307963697
Project: Turtle Creek Vineyard
System ID No: Private

Lab Order: 2504241

Lab ID: 2504241-001
Collection Date/Time: 4/13/2025 16:15
Sample Site: New Well
Source: DRINKING WATER RAW
Sampled By: David Jeffery
Sample Type: Grab
Field CI2 Total: NA
Field CI2 Free: 0 mg/L

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

BACTERIA ANALYSIS

Method : SM 9223 B (N)

E. coli	Not Found	1		P/A	1	4/14/2025 3:43:00 PM
Total coliforms (N)	Not Found	1		P/A	1	4/14/2025 3:43:00 PM

Lab ID: 2504241-002
Collection Date/Time: 4/14/2025 7:45
Sample Site: New Well
Source: DRINKING WATER RAW
Sampled By: David Jeffery
Sample Type: Grab
Field CI2 Total: NA
Field CI2 Free: 0 mg/L

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

BACTERIA ANALYSIS

Method : SM 9223 B (N)

E. coli	Not Found	1		P/A	1	4/14/2025 3:43:00 PM
Total coliforms (N)	Not Found	1		P/A	1	4/14/2025 3:43:00 PM

Quality Control sample results available upon request.

Suffix : (N) - NELAP Accredited Analysis

Qualifiers: Q - Data qualified; see Case Narrative. All required Quality Control was acceptable unless the result is flagged with a "Q" or otherwise noted in the Case Narrative.

Abbreviations : PQL – Practical Quantitation Limit; DF – Dilution Factor

Lab Report

Upper Guadalupe River Authority

Date: 4/17/2025

125 Lehmann Dr. Suite 100, Kerrville, TX 78028

(830) 896-5445

TCEQ State Lab ID: T104704283

CLIENT: D'Spain Sales and Service
PO Box 1269
Bandera, TX 78003
lchacon@dspaininc.com; cguill@dspaininc.com
Ph: 8307963697

Lab Order: 2504249

Project: Turtle Creek Vineyard

System ID No: Private

Lab ID: 2504249-001

Collection Date/Time: 4/15/2025 9:15

Sample Site: New Well

Source: DRINKING WATER RAW

Sampled By: David Jeffery

Sample Type: Grab

Field Cl2 Total: NA

Field Cl2 Free: 0 mg/L

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BACTERIA ANALYSIS						
Method : SM 9223 B (N)						
E. coli	Not Found	1		P/A	1	4/15/2025 10:16:00 AM
Total coliforms (N)	Not Found	1		P/A	1	4/15/2025 10:16:00 AM

Signature:

Nicole Shepherd, Lab Manager

Test Methods: Standard Methods for the Examination of Water and Wastewater; EPA Methods for Water and Wastewater; ASTM Int'l Standard Test Methods; Hach Methods



NELAP Accredited by TCEQ

For a list of Fields of Accreditation and current NELAP certificate, visit the Lab Services section of www.ugra.org

Confidentiality Statement: This is a confidential report for use by the addressed customer or authorized agent. This report may not be reproduced except in full.

Compliance Statement: All laboratory analyses performed in connection with the generation of the data set forth in this report were undertaken in accordance with requirements applicable to the laboratory methods used, unless otherwise noted in an attached Case Narrative. Any known problems/ anomalies observed by this laboratory (and if applicable, laboratories subcontracted through this laboratory) that might affect the quality of the data have been identified in the Case Narrative. Results shown relate only to the samples tested. Any known problems associated with the quality of the samples have been identified in the Case Narrative. All required Quality Control associated with the samples was acceptable unless the result is qualified with a "Q" flag or otherwise noted in the Case Narrative. The use of the measured values in this report for regulatory compliance purposes must be evaluated by, and is solely the responsibility of, the customer.

Quality Control sample results available upon request.

Suffix : (N) - NELAP Accredited Analysis

Qualifiers: Q - Data qualified: see Case Narrative. All required Quality Control was acceptable unless the result is flagged with a "Q" or otherwise noted in the Case Narrative.

Abbreviations : PQL – Practical Quantitation Limit; DF – Dilution Factor

Upper Guadalupe River Authority

Date: 4/28/2025

125 Lehmann Dr. Suite 100, Kerrville, TX 78028

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TCEQ State Lab ID: T104704283

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Project: Turtle Creek Vineyard
System ID No: Private

Lab Order: 2504241

Signature:

Nicole Shepherd

Nicole Shepherd, Lab Manager

Test Methods: Standard Methods for the Examination of Water and Wastewater; EPA Methods for Water and Wastewater; ASTM Int'l
Standard Test Methods; Hach Methods



NELAP Accredited by TCEQ

For a list of Fields of Accreditation and current NELAP certificate, visit the Lab Services section of www.ugra.org

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Compliance Statement: All laboratory analyses performed in connection with the generation of the data set forth in this report were undertaken in accordance with requirements applicable to the laboratory methods used, unless otherwise noted in an attached Case Narrative. Any known problems/ anomalies observed by this laboratory (and if applicable, laboratories subcontracted through this laboratory) that might affect the quality of the data have been identified in the Case Narrative. Results shown relate only to the samples tested. Any known problems associated with the quality of the samples have been identified in the Case Narrative. All required Quality Control associated with the samples was acceptable unless the result is qualified with a "Q" flag or otherwise noted in the Case Narrative. The use of the measured values in this report for regulatory compliance purposes must be evaluated by, and is solely the responsibility of, the customer.

Quality Control sample results available upon request.

Suffix : (N) - NELAP Accredited Analysis

Qualifiers: Q - Data qualified: see Case Narrative. All required Quality Control was acceptable unless the result is flagged with a "Q" or otherwise noted in the Case Narrative.

Abbreviations : PQL - Practical Quantitation Limit; DF - Dilution Factor

