



Bandera County

River Authority and Groundwater District

Protecting & Preserving our Natural Resources

FILED AT 3:04 P.M. ON

MAY 13 2021

TANDIE WANSFIELD, COUNTY CLERK
BANDERA COUNTY, TEXAS
BY [Signature] DEPUTY

Board of Directors

Don Sloan
President

Bob Williams
Vice-President

Neil Boultinghouse
Secretary-Treasurer

Ernest DeWinne
Director

Conrad Striegel
Director

Gene Wehmeyer
Director

Sid Gibson
Director

Rachel Mulherin
Director

General Manager
Dave Mauk

P.O. Box 177
440 FM3240
Bandera, Texas
78003

Phone: (830)796-7260

NOTICE

www.bcragd.org

BANDERA COUNTY RIVER AUTHORITY AND GROUNDWATER DISTRICT

CALLED MEETING

May 20, 2021

Notice is hereby given that a Called Meeting of the Board of Directors for Bandera County River Authority and Groundwater District will be held on Thursday, May 20, 2021 at 9:00 am at 440 FM 3240, Bandera County, Texas, at which time the following items will be discussed and possible action taken, to wit:

AGENDA

- I. Call to Order, Roll Call, Pledge of Allegiance, Certification of Quorum, and Compliance with the Texas Open Meetings Law.
- II. Public Comment.
- III. Discuss and Consider for Action: Approval of April 8, 2021 Quarterly Meeting Minutes.
- IV. Discuss and Consider for Action: Appointment to fill the Vacancy of BCragD Board Member at Large Seat.
- V. Discuss and Consider for Action: Approval Of Director Bond.
- VI. Discuss and Consider for Action: Approval of Property Bids for Property ID: 163434, 165560, 157657, 148810, 158235, 155670, 166346, 155739, 164377, 158348.
- VII. Discuss and Consider for Action: Approval of GMA -9 Desired Future Conditions.
- VIII. Discuss and Consider for Action: Approval of MHC TT Inc. Well Permit for an Instantaneous Rate of 150 GPM with an Annual Production Limit of 48 Acre/Feet.
- IX. Discuss and Consider for Action: Authorizing General Manager to Replace Roof.
- X. Discuss and Consider for Action: Approval of BCragD 5 Year Strategic Plan.
- XI. Discuss and Consider for Action: Authorizing General Manager to Form Community Stakeholder Group.
- XII. Discuss and Consider for Action: Approval of Public Sale of District Vehicle.
- XIII. Brief Overview of Groundwater Science Presented by Alyssa Balzen, Groundwater Operations Manager .
- XIV. Informational Item – Drought Stage, Water Conservation Handouts, Rainwater Harvesting Materials, Future Meeting Date.
- XV. Adjournment.

This notice is published pursuant to the Texas Open Meetings Act, Texas Government Code Chapter 551. Dated this 13th day of May 2021.

[Signature]
David Mauk, General Manager

The Board of Directors of Bandera County River Authority and Groundwater District reserves the right to adjourn into Executive Session at any time in the course of this meeting as authorized by the Open Meetings Act, Texas Government Code Chapter Session under Texas Government Code § 551.071, "Consultation with Attorney".

I hereby certify that the above Notice of Meeting of the Board of Directors for Bandera County River Authority and Groundwater District is a true and correct copy of said Notice; that a true and correct copy of said Notice was posted on May 13, 2021 before 4:30 p.m., in its administrative office in Bandera, Bandera County, Texas at a place convenient and readily accessible to the general public at all times; that a true and correct copy of aid Notice was furnished to the County Clerk of Bandera County; and that a copy of said Notice was furnished to each director.

[Signature]
David Mauk, General Manager

The principle mission of the Bandera County River Authority & Groundwater District is to protect and preserve the County's water and natural resources for the State of Texas. The

Our Mission

Bandera County River Authority and Groundwater District

Quarterly Meeting

April 8, 2021

MINUTES

Meeting Held via:

<http://zoom.us>

Meeting ID: 846 0924 2465

Passcode: BCRAGD

START TIME: 9:01 A.M.

PRESENT: D. Sloan, B. Williams, E. DeWinne, N. Boultinghouse, R. Mulherin, C. Striegl

ABSENT: G. Wehmeyer, S. Gibson

General Manager: D. Mauk

BCRAGD Staff: H. Phillips

I. Call to Order, Roll Call, Pledge of Allegiance, Certification of Quorum, and Compliance with the Texas Open Meetings Law.

D. Sloan called the meeting to order at 9:01am and N. Boultinghouse, Treasurer, announced that a quorum was present.

II. Public Comment.

H. Phillips stated: "All public comments (see attachment A) submitted prior to the start of this meeting have been circulated to the board of directors and entered into the record. It is not necessary to re-read them. If you have not submitted a public comment and wish to make a public comment, please note that per board policy your time limit is 3 minutes."

There were no additional public comments.

III. Discuss and Consider for Action: Approval of January 14, 2021 Quarterly Meeting Minutes.

E. DeWinne motioned to approve the January 14, 2021 Quarterly Meeting Minutes as presented and R. Mulherin seconded the motion. Motion passed 6-0.

IV. Discuss and Consider for Action: Approval of YoungLife Well Permit for an Instantaneous Rate of 100 GPM with an Annual Production Limit of 100 acre-feet.

D. Mauk stated the following prior to giving his recommendation: " There is no current evidence that the Lower Trinity and Middle Trinity communicate with each other. The Lower Trinity does not contribute to spring flow. Public Water Supplies are for drinking water."

D. Mauk recommended to the board that they authorize 100 GPM and 45 acre-feet, and that all wells that need to be permitted must be accounted for, and permit applications and fees turned into TCEQ. The Public Water Supply approval letter and annual pumping reports will be reviewed, and if the authorized amount needs to be adjusted, the District will issue a permit amendment.

B. Williams motioned to approve D. Mauk's recommendation and N. Boultinghouse seconded the motion. Motion passed 6-0.

V. Discuss and Consider for Action: Approval of Bids to Drill Monitor Well Outside of Tarpley.

Buddy's Water Well Service has the cheapest bid of \$16,075 with an additional \$500 for the pit required for the cutting.

E. DeWinne motioned to approve the bid from Buddy's Water Well Service to drill a monitor well outside of Tarpley and R. Mulherin seconded the motion. Motion passed 6-0.

VI. Discuss and Consider for Action: Resolution supporting HB 4146 and SB 1747.

D. Mauk explained that these bills were against the discharge of effluent into a watercourse and that supporting these bills aligned with the District's purpose to protect the natural resources of the State of Texas.

B. Williams motioned to adopt the Resolution supporting HB 4146 and SB 1747 and E. DeWinne seconded the motion. Motion passed 6-0.

VII. Discuss and Consider for Action: BCragd Quarterly Budget Report / Public Funds Report.

D. Mauk stated that the District funds totaled \$620,095.00 with a breakdown of \$512,278.00 in the BCragd Operating account, \$30,025.00 in the Flood Project Checking account and \$200 in petty cash. Additionally there is \$76,593 in a CD at Hondo National Bank. The Funds Breakdown demonstrates \$30,025 in Flood Project checking account, \$518,788 of Non-Designated Funds and \$71,282 of Designated funds categorized for State Auditor, Well Monitoring and Water Availability, Scientific Studies, and Building, Property Improvement and Maintenance.

E. DeWinne motioned to accept the BCragd Quarterly Budget Report/ Public Funds Report and N. Boultinghouse seconded the motion. Motion passed 6-0.

VIII. Discuss and Consider for Action: Moving Funds to District Flood Account from Bandera Bank.

D. Mauk recommended moving \$10,000 to cover the \$7,500 remaining on an invoice and the remaining \$2,500 that the District owes to complete the project.

E. DeWinne made a motion to approve D. Mauk's recommendation and B. Williams seconded the motion. Motion passed 6-0.

IX. Discuss and Consider for Action: Overview of FY 2020 District Annual Report.

D. Mauk stated that the annual report is a requirement for our management plan and available on the website.

E. DeWinne motioned to accept the FY 2020 District Annual Report as presented and R. Mulherin seconded the motion. Motion passed 6-0.

X. Annual Evaluation of the Groundwater Resources, DFC Compliance, and Surface Water Quality in Bandera County.

D. Mauk stated that this is also a requirement and is located within the annual report. It has been added as a stand alone agenda item after the state audit.

N. Boultinghouse motioned to approve the Annual Evaluation of the Groundwater Resources, DFC Compliance, and Surface Water Quality in Bandera County as presented and E. DeWinne seconded the motion. Motion passed 6-0.

XI. General Manager Report: Activities of the District – 2nd Quarter FY 2021.

General Manager, D. Mauk, gave the Board an overview of the District's 2nd Quarter FY 2021 Activities which included: Registered and Permitted Well Report Numbers, Nuisance Complaints, Variance Requests, Notice of Violations, Groundwater Tests, Water Well Plugging, Geophysical Logging, and Monitor Well Report.

The report also included Surface Water Evaluation & Reports, In-House Surface Water Quality Monitoring Report, Medina Lake Update, Aquatic Life Monitoring, EAA Sampling, Public Service Announcements, Staff Highlights, Invasive Species Updates, and the Drought Monitor.

Also included in the GM Report were the Education & Outreach Highlights, Social Media Highlights, Flood Early Warning System Update, Rainspotter Data, and Covid-19.

XII. Presentation from Levi Sparks on Invasive Species.

Levi Sparks gave a brief presentation on Invasive Species in Bandera County and the projects the District participates in regarding them.

XIII. Informational Item – Drought Stage, Water Conservation Handouts, Rainwater Harvesting Materials, Future Meeting Date.

D. Mauk stated that education materials and current drought conditions are available on the District Website. The next Quarterly Meeting will be July 8, 2021.

XIV. Adjournment.

B. Williams motioned to adjourn the meeting and E. DeWinne seconded the motion. Motion passed 6-0 and the meeting adjourned at 9:53am.

Approved by:

Don Sloan (*BCRAGD President*)

Neil Boultinghouse (*BCRAGD Secretary/Treasurer*)

Date

Date

Attachment A

- John Newman
Mr. Mauk,

We have a place in Bandera County north of Vanderpool and like all landowners in the Texas Hill Country are concerned about both surface and ground water.

I am confused about the rationale behind Young Life's Water Well Permit. On one hand, Young Life is working on a permit application to discharge 60,000 gallons of wastewater a day (67 acre feet a year) into a creek flowing into the Sabinal. On the other hand, the organization is applying for a well to pump 100 acre feet a year. It seems logic would dictate using the available treated wastewater to reduce the need to pump scarce water. I hope the meeting on Thursday will explore Young Life's thinking on this allocation of scarce resources.

Thank you,

John Newman

- To: The BCragd Board of Directors,

I urge you to deny the permit from Young Life asking for 100 acre feet of water per year.

This amount equals to 32,585,142 gallons per year or 61 gallons per minute.

My family owns property on the Sabinal downstream from this camp. The flow has greatly diminished since the camp built the numerous lakes now catching water that used to go into the Sabinal. Taking this amount of well water from the aquifer will further reduce the flow, since natural springs that run into the Sabinal will also be affected.

Local residents could also see an impact on their wells, especially during drought conditions like we are seeing right now.

Please do not allow this one camp to affect the lives of many neighbors and the Sabinal River so many people depend upon for their livelihoods and recreation.

Thank you for your consideration.

Kathleen Lewis

- Please don't approve the Young Life Water Well Permit. I am concerned how much water will be taken out and my well going dry in a drought because of it.

Thank you,
Trisha Hartman

- Please see comment below for Thursday's meeting:

Why is Younglife requesting to pump such a great amount of water from our aquifer when previously owned Lonehollow worked well for so many years without a permit such as this?

If the permit is going to be used to fill up the lakes for recreation, I don't see how this is just, when individual's wells in the area are running dry for the first time in 50 years. Could that be the idea of Younglife; to run local wells dry and then turn around and sell the water they pumped from the aquifer? I realize this is just speculation on my part, but again, what is their reason for requiring so much water? If needed for irrigation, use the treated septic they want to dump into our rivers instead.

Evelyn Ohara

- I am concerned with amount of water Young Life has requested. As I am sure you are aware we are in a drought stricken area. The requested amount will be detrimental to the families who live here as well as the livestock and wildlife. It is my understanding other camps in the area use far less water. Young Life should review other options such as reclaimed water for water reclamation. Please carefully review this request.

Thank you for you consideration to my request.

Joan M. Curle

- Dear Mr. Mauk and Board of Directors,

Clark well (Tracking #133216) which is used for irrigation of the facility, and Rancho Madrona (Tracking #276786) which is the current source of water for the facility. Are these three wells ALL commercial wells? What are their approved pumping capacities? How does the camp plan to use them? It begs the question, how many other wells are on the property (I have been told they have 9 wells on the property) and what are their water usage? If Young Life is asking for another extremely large commercial well, the water usage of All of their wells needs to be reviewed and taken into full consideration before approval of another very large commercial well.

· The camp has several spring fed lakes on site, there is no mention on how this source of water could be used for fire events?

As guardians of the county's water and natural resources, we would ask that BCRA GD request for review a comprehensive water plan that takes into account the usage/conservation of all of the sources of water at Young Life's disposal including all wells and the treated water that they plan to discharge into the Sabinal River. Given our continuing drought conditions, such plan should outline a meaningful drought management plan (to include how such plan will be monitored).

As an owner in Western Bandera County, I do not feel that the whole "water" picture is being examined. I hope that BCRA GD will take this opportunity to require such a thorough review before further consideration is given to any additional well permits.

Thank you for your time.

Ann K. Schneider

Ann K. Schneider

- Please don't allow Young Life to pump 89,000 gallons daily, it's a crazy amount! I don't know how many people they plan to have attend the camp, but let's assume it's a very large camp and 300 people attend. That's almost 300 gallons per person, per day.

San Antonio's per capita water usage is 140 gallons per person per day, by comparison. That includes swimming pools, landscaping, lawn watering, laundry machines, dishwashers and other uses.

It is our understanding that the Young Life/Lone Hollow Water Well Application is the same as originally submitted and discussed at the Public Meeting back in January 2021 - asking for 100 acre feet/year to supply the following:

850 campers and staff (including restaurant use) -Total need 51,000 gal/day

Pool/Lazy River – 14,400 gal/day

Subtotal water needs: 73.2 acre feet/yr

An additional 26 acre feet of water for fire events - to be stored and ready and plans to be refilled "every" year.

To reiterate our concerns, we feel that approval of this excessively large water well application could have profound effects on the neighboring owners. I have attached Jeff and Melody Braun's letter dated January 13, 2021 where they succinctly lay out 6 major questions and issues regarding the Young Life Application. We hope that your agency has looked into each of these points. We look forward to your responses in the April 8th meeting.

As we continue to learn more about Young Life's water needs, it appears that there is no comprehensive water use/conservation plan that has been presented as part of this application process:

- On one hand, Young Life have submitted an application to TCEQ to dump 60,000 gallons of wastewater per day into the Sabinal River and its tributaries and on the other hand, they are applying for a 100 acre foot per year water well? How does this make sense?

- It is our understanding that they have plans to build a water treatment plant that will bring the wastewater to very high quality standard. However, they have an application to discharge this water into the Sabinal River. There is no information that has been submitted on how the camp plans to reuse their treated water for their own 850 person and staff camp needs including the Lazy River or Fire event storage?

- Noted in the Test Well Report, it states that the camp has 3 other wells: Clayton Clark well (Tracking #258833) – use not stated, Clayton

But we're talking about building a camp, not about building a major city. Young Life has picked the Bandera Canyonlands area because of its natural beauty, and they should be respectful of that natural beauty, and the landowners in the area who must share the same water resources. I'm making assumptions about the per-capita usage, but that is still a massive total number and it will jeopardize wells and springs in this drought-prone area.

I believe this is a good chance for Young Life to teach the youth about responsible land stewardship, as they enjoy an environmentally-sensitive area. This permit is in conflict with that ideal, as is.

Thank you,

Hunter Warren

- BCRAGD,

Please do not approve the water well permit as requested by Young Life for their Lonehollow Camp. Such a large amount of water being used at one facility will have a detrimental impact on all other nearby wells that access the same aquifer.

I believe this would be one of the largest water Wells in Bandera County and it is in a part of the Hill Country that is subject to serious droughts- other camps and land owners have found a way to make do with way less and so should Young Life.

Sincerely,

Helen Cunningham

- I bet you can guess what my take is on this Young Life permit. All I can add is that this may be the straw that breaks the back of our aquifers. In years to come, when commercial and agricultural operations disappear along the Sabinal, some of us will remember that it was this BCRAGD and its management that allowed it.

Tom Denyer

MAIL ADDRESS:
P.O. Box 997
Bandera, Texas 78003



D. Kirk McMullan, C.I.C.
Patricia S. McMullan, C.I.C.

5/17/2021

Bandera County River Authority
and Groundwater District
PO Box 177
Bandera, TX 78003

Re: Policy #18159038 07/02/20-07/02/21

Dear Prari,

In regards to your question about adding a director, if the penalty amount remains as all other positions at \$10,000, the premium is \$35.

Sincerely,

Sonya Graves

285 St. Hwy 16 South
Bandera, TX 78003
830-796-3725
830-796-4254 (fax)

www.McMullanInsurance.com
service@mcmullaninsurance.com





Honorable Rebekah Dolphus
Bandera County
Tax Assessor-Collector
Election Official

403 12th Street
P.O. Box 368
Bandera, TX
78003-0368
Phone: (830) 796-3731
Metro: (830) 460-7570
Fax: (830) 796-8140

email: rdouglas@banderacounty.org

To: Commissioners Court

From: Rebekah "Reba" Dolphus

RE: Bids on Properties

Date: March 11, 2021

Name	Property ID	Legal	Court Cost	Total Tax	BID (% of value)	Current Value
Karen Jensen	163434	Lake Medina Shores E Blk 8 Lt 29 0.094 Acres	13-179 \$645	\$3,227.19	\$1,000 (37%)	\$2,710
	165560	Lake Medina Shores E Blk 6 Lt 28 0.096 Acres	14-405 \$1,180.75	\$3,495.41	\$1,000 (37%)	\$2,730
	157657	Lake Medina Shores E Blk 6 Lt 27 0.096 Acres	08-392 \$1,047	\$3,024.58	\$1,000 (37%)	\$2,730
	148810	Lake Medina Shores E Blk 8 Lt 36 0.094 Acres	13-035 \$1,186	\$2,735.66	\$1,000 (37%)	\$2,700
Tuesday Whitt	158235	Bandera Lakeshore Sub Blk 8 Lt 30-33 0.367 Acres	05-257 \$1,013	\$9,050.61	\$4,600 (50%)	\$9,110
Lorraine Lopez & Janelle Cortez	155670	Lake Medina Shores B Lt 198 0.092 Acres	15-133 \$774.50	\$2,431.43	\$1,100 (42%)	\$2,640
Lorraine Lopez & Mark Mendoza	166346	Lake Medina Shores B Lt 204 0.104 Acres	06-414 \$1,054	\$3,745.48	\$1,100 (37%)	\$2,940
Donald Beadman	148810	Lake Medina Shores E Blk 8 Lt 36 0.094 Acres	13-035 \$1,186	\$2,735.66	\$1,500 (56%)	\$2,700
	155739*	Lake Medina Shores E Blk 8 Lt 27 0.094 Acres	09-045 \$1,197	\$2,963.07	\$1,600 (59%)	\$2,710

Respectfully Submitted:
Rebekah "Reba" Dolphus, TAC

----- Forwarded message -----

From: **Reba Douglas** <rdouglas@banderacounty.org>

Date: Wed, Apr 7, 2021 at 1:53 PM

Subject: Re: Bids to be approved for March 11

To: Charley Curd <ccurd@bcragd.org>

Thank you, that was most likely the problem.



I forgot also I have two from last year that I don't show I have approval for. It was when COVID started.

Rudy Quesada PID 164377, Lake Medina Highlands A Blk 1B Lt 3-5 .30 Acres Court Cost: \$1,126 Bid: \$2,000 Value: \$3,920

Victor Nieves PID 158348, Lake Medina Shores B Lt 245 0.091 Acres Court Cost: \$1,057 Bid: \$2,000 Value: \$1,900

Let me know if you can add these.

Thank you :)

Reba

Agenda Item # VI

PUBLIC HEARING
Groundwater Management Area 9
Proposed Desired Future Conditions and Proposed Non-Relevant
Aquifer Classifications

9am on May 20, 2021 at 440 FM 3240, Bandera, Texas 78003

At an open meeting of the **Groundwater Management Area 9 Joint Planning Committee** (GMA 9) held virtually on March 22, 2021 via a Zoom Meeting and attended by representatives from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 9: Bandera County River Authority and Groundwater District, Barton Springs/Edwards Aquifer Conservation District, Blanco-Pedernales Groundwater Conservation District, Comal Trinity Groundwater Conservation District, Cow Creek Groundwater Conservation District, Headwaters Groundwater Conservation District, Hays Trinity Groundwater Conservation District, , Southwestern Travis County Groundwater Conservation District, and Trinity-Glen Rose Groundwater Conservation District; GMA 9 considered and adopted the following Proposed Desired Future Conditions (DFCs) and Proposed Non-Relevant Aquifer Classifications for GMA 9:

Proposed Desired Future Conditions*

Trinity Aquifer

Allow for An Increase in Average Drawdown of Approximately 30 Feet through 2060 (throughout GMA 9) Consistent with "Scenario 6" in TWDB GAM Task 10-005.

Edwards-Trinity (Plateau) Aquifer

Allow for No Net Increase in Average Drawdown in Bandera and Kendall Counties through 2080.

Ellenburger-San Saba Aquifer

Allow for An Increase in Average Drawdown of No More Than 7 Feet in Kendall County through 2080.

Hickory Aquifer

Allow for An Increase in Average Drawdown of No More Than 7 Feet in Kendall County through 2080.

*Allow for DFC variance of up to five percent when comparing DFCs to average drawdown calculations from model files.

Proposed Non-Relevant Aquifer Classifications

Edwards Aquifer (Balcones Fault Zone)	Bexar, Comal, Hays, and Travis Counties
Edwards-Trinity (Plateau)	Blanco and Kerr Counties
Ellenburger-San Saba	Blanco and Kerr Counties
Hickory	Blanco, Hays, Kerr, and Travis Counties
Marble Falls	Blanco County

Members of the public are invited to attend and provide oral comment, testimony, and/or submit other documentation and information relevant to the Proposed DFCs and Non-Relevant Aquifer Classifications to the Board of Directors at this Public Hearing.

If unable to attend the Public Hearing, members of the public are invited to submit written comments, testimony, and/or other documentation and information relevant to the Proposed DFCs and Non-Relevant Aquifer Classifications to the Board of Directors at the District Office located at:

440 FM 3240, Bandera, Texas 78003
P.O. Box 177, Bandera, Texas 78003

GMA 9 has prepared standardized Public Comment Forms to help you organize and substantiate your submission. This form is available at the address above and on our website: www.bcragd.org

The Public Comment period runs from April 1, 2021 through June 30, 2021.

The District will prepare a report of any relevant comments received at the Public Hearing and attach any written comments, testimony, and/or other documentation and information relevant to the Proposed DFCs and Non-Relevant Aquifer Classifications received through June 30, 2021. This report and attachments will be provided to the GMA 9 Committee for their review, consideration, and incorporation into the DFC decision-making process.

Questions or requests for additional information may be submitted to:

Hayli Phillips
(830)796-7260
hphillips@bcragd.org



Bandera County

River Authority and Groundwater District

Protecting & Preserving our Natural Resources

Board of Directors

- Don Sloan
President
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Vice-President
- Neil Boultinghouse
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- Conrad Striegl
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- Gene Wehmeyer
Director
- Sid Gibson
Director
- Rachel Mulherin
Director
- General Manager
Dave Mauk
- P.O. Box 177
440 FM3240
Bandera, Texas
78003

Phone: (830)796-7260

www.bcragd.org

WELL PERMIT HEARING

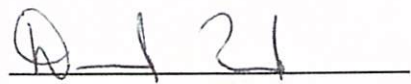
Name: MHC TT Inc.

Location: 215 Spettle Rd., Lakehills, TX 78063

Requested Production Limit: Instantaneous Rate of **150 GPM** with an Annual Production Limit of **48 Acre-Feet**.

Purpose: Public Water Supply

Date: Meeting to be held at 9:00am on May 20, 2021 at 440 FM 3240, Bandera, Texas 78003.


David Mauk, General Manager

5/10/2021
Date

FILED
AT 12:20 O'CLOCK P.M ON
MAY 06 2021
TANDIE MANSFIELD, COUNTY CLERK
BANDERA COUNTY, TEXAS
BY  DEPUTY

The principle mission of the Bandera County River Authority & Groundwater District is to protect and preserve the County's water and natural resources for the State of Texas. The District is also tasked with maintaining local accountability of the County's resources to help safeguard the property rights of the citizens of Bandera County.

Our Mission

From: Daniel Grasser <guttersovertexas@gmail.com>
Date: May 14, 2021 at 7:31:53 AM CDT
To: lthomas@bcragd.org
Subject: Roof Replacement Estimate

<https://photos.app.goo.gl/jplNqbZNVdURjx1s2>

Above is a link to my portfolio. Enjoy!

D.H.C. Custom sheet metal fab and seamless gutters, purposes to provide all material & labor for the completion of work at 440 F.M. 3240, Bandera TX, 78003. For the amount listed below. A 50% deposit is required to start the job. Estimates are only valid for 30 days from date received.

- * Remove and Replace 34 squares of Galvalume 24 gauge R-panel.
- * Install 130' linear feet of 2x2 drip edge.
- * Install 40' linear feet of Transition metal.
- * Install 130' linear feet of Rake Trim.
- * Install 40' linear feet of Peak sheets.
- * Install Gulf state tape on all underlegs and rake trim.
- * Replace all pipe flashings.

Total: \$17,850.00

- * Remove existing Facia and 1x4 that is rotten.
 - * Install new facia boards and 1x4.
 - * All new lumber installed will be primed and painted.
- Total: \$2,800.00

Combined total: \$20,650.00

Any change order or unforeseen pre existing issues may incur an additional charge. Only with written agreement.

Job site will be cleaned of all tools, trash, and any other debris at the end of each working day.

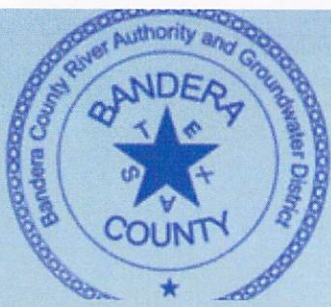
All materials guaranteed to be as specified. All work will be completed in a professional manner, according to industry standard practices. All work comes with a 5 Year Workmanship Warranty. Note: (There will not be a warranty if there are surrounding trees that may clog gutters and the homeowner chooses not to purchase leaf protection.

The above price, specs, and conditions are satisfactory and hereby accepted. You are authorized to do the work as specified. Payment will be made in full, upon completion of the job.

D.H.C. Custom sheet metal fab & Seamless Gutters. L.L.C.
Veteran Owned & Operated.

Licensed and Insured.

Signature Date



Strategic Plan FY 2021-2026

Natural Resource Management

Objective 1: Monitor the correlation between Aquifer levels and gain/loss of Medina River flows.

Objective 2: Continued monitoring of water quality throughout the county through Surface Water and Groundwater sampling.

Objective 3: Promote the conservation and protection of water and other natural resources in the State of Texas .

Transparency

Objective 1: Maintain an open and honest line of communication with the public and other governmental agencies.

Objective 2: Operate within the Accepted Accounting Principles and maintain positive scores during annual financial audits.

Objective 3: Maintain orderly records in accordance with Texas State and Local Archives Commission.

"The principle mission of the Bandera County River Authority and Groundwater District is to protect and preserve the county's water and natural resources for the State of Texas. The District is also tasked with maintaining local accountability of the county's water resources to help safeguard the property rights of the citizens of Bandera County."

Flood Preparedness

Objective 1: Participate in Joint Regional Planning for Flood Preparedness in the State of Texas.

Objective 2: Maintain Flood Early Warning System to safe guard property and prevent the loss of life during a flooding event.

Objective 3: Educate concerned citizens of the dangers of flood waters, and equip the public with the necessary resources and tools to prepare for flooding events.

Community

Objective 1: Educate the public on conservation initiatives, good stewardship of the natural resources and responsible water recreation.

Objective 2: Establish a presence in the community we serve and provide resources and tools for the public to access.

Objective 3: Work with other agencies, regional planning groups, and nonprofit toward creating environmental conservation initiatives.

Bandera County Aquifers

Alyssa Blaise Balzen

Bandera County River Authority and Groundwater District

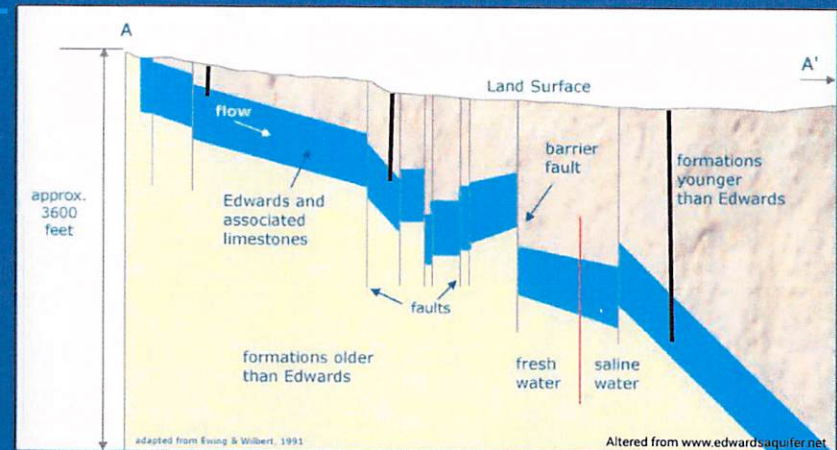
Aquifer

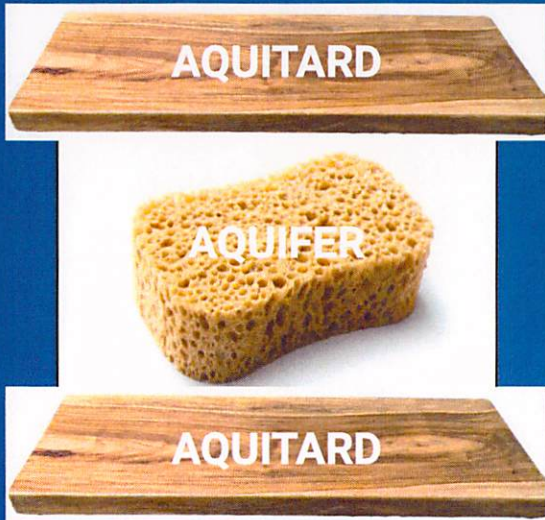
Lithologic unit that can yield water to pumped wells or springs.

- Confined
- Unconfined



Our aquifers looks more like this...

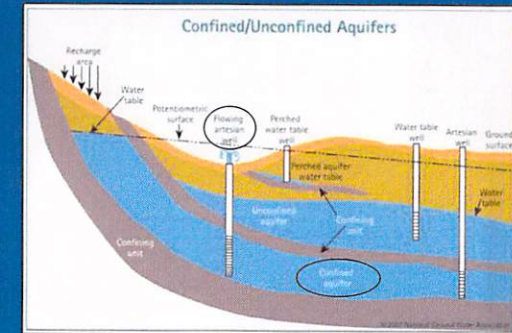




Middle and Lower Trinity - Confined Aquifers

The entire aquifer is saturated with water (pressurized).

- Confined by a bottom and top layer with very low permeability (water has a hard time moving through it).
- Confining bed = aquitard (usually low permeability, but can store/transmit water between aquifers).
- ****No aquitard is completely impermeable.**



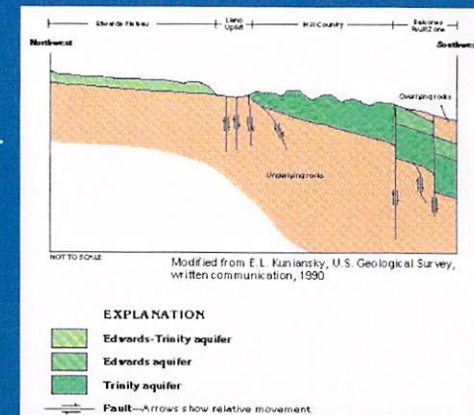
Altered from www.ngwa.org

Stratigraphic Units of the Trinity Group in South Central Texas (adapted from Ashworth, 1983)					
Stratigraphic Unit	Hydrologic Unit	Approx. Maximum Thickness (feet)	Character of Rocks	Water-Bearing Properties	
Glen Rose Limestone	upper member	Upper Trinity	500	Alternating resistant and non-resistant beds of blue shale, nodular marl, and impure fossiliferous limestone. Also contains two distinct evaporite zones.	Yields very small to small quantities of relatively highly mineralized water.
	lower member	Middle Trinity	320	Massive, fossiliferous limestone grading upward into thin beds of limestone, dolomite, marl, and shale. Numerous caves and reefs occur in the lower portion of the member.	Yields small to moderate quantities of fresh to slightly saline water.
Travis Peak Formation	Hensell Sand Member Bakar Shale Member		300	Red to gray clay, silt, sand, conglomerate, and thin limestone beds grading downward into silty dolomite, marl, calcareous shale, and shaly limestone.	
	Cow Creek Limestone Member	90	Massive, fossiliferous, white to gray, argillaceous to dolomitic limestone with local thinly bedded layers of sand, shale, and lignite.	30-50 gpm, sometimes more or less	
	Hammett Shale Member	80	Dark blue to gray, fossiliferous, calcareous and dolomitic shale with thinly interbedded layers of limestone and sand.	Not known to yield water. Confining bed	
	Sligo Limestone Member Houston Sand Member	Lower Trinity	120 350	Sandy dolomitic limestone. Red and white conglomerate, sandstone, claystone, shale, dolomite, and limestone.	Yields small to large quantities of fresh to slightly saline water.

Altered from www.edwardsaquifer.net

Edwards Aquifer - Confined & Unconfined Aquifer

- Recharges in Northwest Bandera County
- Visible at surface in unconfined areas.
- Overlies Trinity aquifer



EXPLANATION

- Edwards-Trinity aquifer
- Edwards aquifer
- Trinity aquifer

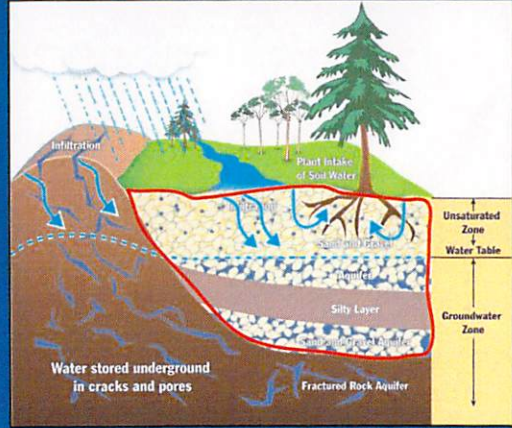
Fault—Arrows show relative movement

https://pubs.usgs.gov/ha/ha730/ch_e/gif/E079.GIF

Recharge Zone

When top of lithologic unit of aquifer is exposed to surface.

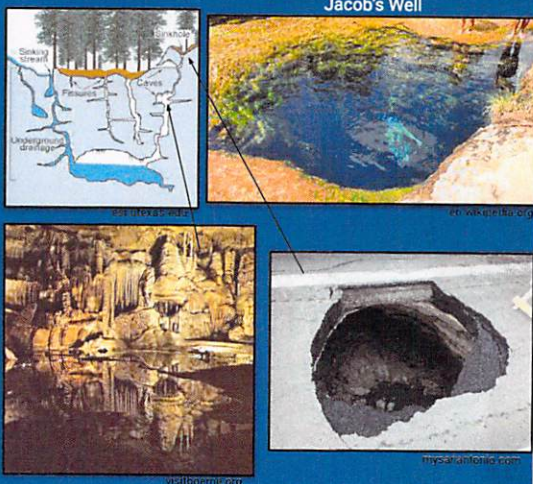
- Recharge is mostly from precipitation, and some streamflow in north Bandera County.
- Only a small part of precipitation actually makes it into the aquifer.



Karst

Landscapes shaped by dissolution processes (water dissolving soluble rock).

- Often in limestone, marble, gypsum.
- Sinkholes, sinking streams, caves.
- Edwards Plateau is one of largest karst regions in the U.S.A.



BCRAGD Office Well - Middle Trinity

In 5 months (December 2020 - Today)

- Decreased 3.89% (0.77% per month)
- Approximately 8 feet total