



Letter of Transmittal

To: Georgia Environmental Protection Division
Water Supply Program
Ground Water Withdrawal Unit
2 Martin Luther King Jr. Dr., S.E.
East Floyd Towers, Suite 1362
Atlanta, Georgia 30334-9000

Date: 08/16/2023

Job 27691.0081

Re: Bryan-Bulloch County Regional Water
Transmission System – Well 1 Stravinski

WE ARE SENDING YOU THE FOLLOWING ITEMS (☒ attached) (☐ under separate cover via _____)

☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of Letter ☐ Change Order ☒ Other: Permit Applications, Exhibits

Copies	Date	Description
1	08/16/2023	Application for a Permit to Use Groundwater – Part A – General System Information
1	08/16/2023	Application for a Permit to Use Groundwater – Part B – Well Data
1	08/16/2023	100' Radius Wellhead Protection Zone & Well Location Exhibit
1	08/16/2023	1 Mile Radius Wellhead Protection & Well Location Quad Exhibit
1	08/16/2023	Wellhead Protection Application Sheet

THESE ARE TRANSMITTED AS CHECKED BELOW:

☒ For Approval ☐ Approved as Submitted ☐ Resubmit _____ Copies for Approval
☐ For Your Use ☐ Approved as Noted ☐ Submit _____ Copies for Distribution
☐ As Requested ☐ Returned for Corrections ☐ Return _____ Corrected Prints
☐ For Review and Comment _____

Remarks

Attached are parts A & B of the Application for a Permit to Use Groundwater for the Bryan-Bulloch Water Transmission System project located in Bryan County, Georgia. Also attached are two exhibits detailing the location and surrounding proximity of the well. I have also included the Wellhead Protection Application for your reference. The project consists of four (4) 1,800-gpm water wells (permitted separately) and a series of watermain from Bulloch County to Bryan County.

Please review the attached documents at your earliest convenience and let me know if you have any questions.

Thank you.
Caroline Peavy
Phone: 912-721-4043
Email: peavy.c@tandh.com

Copy to Tre Wilkins, P.E.
Wilkins.t@tandh.com

Signed _____
Caroline Peavy



Application for a Permit to Use Groundwater

Part A – General System Information

(Part A must be accompanied by one copy of the Part B – Well Data form for each well in your system)

<input checked="" type="checkbox"/> New Permit	
<input type="checkbox"/> Renewal	Please enter GW Withdrawal Permit No. ____ - ____ - ____
<input type="checkbox"/> Modify Existing GW Withdrawal Permit No. _____	

(Print or type ALL information)

Applicant Information

Contact Person: Kirk Croasum	Phone: (912)756-7953	Email: kcroasum@bryan-county.org
Fax: _____		
Company / Permittee: Bryan County Board of Commisioners		
Permittee Address: 66 Captain Matthew Freeman Drive Suite 201 Richmond Hill		Georgia 31324
(No. and Street)	(City)	(State) (Zip)
Water Use Name & Address (if different than above):		

Permit For:

Monthly Average Withdrawal Limit requested: <u>1,750,000</u>	Gallons Per Day (GPD)
Annual Average Withdrawal Limit requested: <u>1,750,000</u>	Gallons Per Day (GPD)
For a beneficial use of <u>(3,500,000)</u> gallons of water per day, to be pumped from <u>2</u> well(s)	
Averaging <u>18</u> hours pumping per day utilizing the <u>Upper Floridian</u> aquifer(s) for a	
<input type="checkbox"/> Consumptive use OR <input checked="" type="checkbox"/> Nonconsumptive use	

For... <input type="checkbox"/> Sanitary Facilities <input checked="" type="checkbox"/> Central Water Supply <input type="checkbox"/> Cooling Water <input type="checkbox"/> Process Water for _____ <input type="checkbox"/> Other (please specify) _____
--

Location Map

County where well(s) is located: <u>Bulloch County - See Attached Map</u>
All applications shall be accompanied by a map showing the location of the existing and proposed well(s); each well to be identified by number. The location map shall be the best map available, which may be a portion or a copy of a U.S. Geological Survey 7.5 min. quadrangle map, or latest county highway MAP, or city MAP, provided the submitted map is properly identified and should be no larger than 8½ x 11 inches.

And such other pertinent information submitted by the applicant or required by the Division.

Krik Croasum

 Print or Type Name

 Sign Name

 County Engineer

 Title

 Date

Return Application To:

Georgia Environmental Protection Division
 Water Supply Program
Groundwater Withdrawal Unit
 2 Martin Luther King Jr. Dr., S.E.
 East Floyd Towers, Suite 1052
 Atlanta, Georgia 30334-9000
 Fax: (404) 651-9590



Application for a Permit to Use Groundwater

Part B – Well Data

(Submit one (1) form for each well in the system)

(Print or type ALL information)

Applicant Information									
Contact Person: Kirk Croasmun				Phone: (912)756-7953		Email: kcroasmun@bryan-county.org			
				Fax:					
Company / Permittee: Bryan County Board of Commissioners									
Address: 66 Captian Matthew Freeman Drive Suite 201				Richmond Hill		Georgia		31324	
(No. and Street)				(City)		(State)		(Zip)	
Well Information:									
Well No.: 1 (Key to attached location map)					Ground elevation at well (if available): 78				
County where well(s) is located: Bulloch					Latitude: 32.2296		Longitude: -81.48217		
Well Construction Description									
<input type="checkbox"/> Existing well <input checked="" type="checkbox"/> Proposed well									
Name of aquifer(s) being or to be utilized Floridian									
Well Drilling Information					<input type="checkbox"/> Rotary		<input type="checkbox"/> Percussion		<input type="checkbox"/> Bored
Total depth of well: 550 ft.					Date drilled:				
Static water level: -80 ft.					Date to be drilled:				
					Driller:				
Drill Hole Diameter					Grouting				
Size in., from 0 ft. to ft.					<input type="checkbox"/> Yes <input type="checkbox"/> No				
Size in., from ft. to ft.					Type				
Size in., from ft. to ft.					From ft. to ft.				
Size in., from ft. to ft.					From ft. to ft.				
Size in., from ft. to ft.					From ft. to ft.				
Casing Record					Test Pump Data				
Type material					Pumped		Bailed		
Wall thickness					Estimated				
Weight/Foot					Date tested				
Size in., from 0 ft. to ft.					Pump rated		GPM		HP
Size in., from ft. to ft.					Pump yield		GPM after		hrs of pumping
Size in., from ft. to ft.					Water level before test		ft.		
Size in., from ft. to ft.					Drawdown		ft.		
Size in., from ft. to ft.					Specific Capacity		GPM/ft.		
Well Screen					Permanent Pump Data (if available)				
Type material					Pump type				
Size in., from ft. to ft.					Outlet size				
Size in., from ft. to ft.					Powered by				
Size in., from ft. to ft.					Horsepower				
Size in., from ft. to ft.					Rate		GPM		
Size in., from ft. to ft.					Pumping level				
					Average hours pumped per day				
Note: Detailed well construction specifications of a proposed well may be required by the Division upon review of the submitted application.									
Complete WELL LOG on reverse side, if available.									

[illegible]

I certify that the above information is true to the best of my knowledge

Date _____

WELLHEAD PROTECTION / NEW WELL/SPRING APPLICATION SHEET

When filling out this application the following information must be included:

1. If the proposed well site is located within a flood plain zone as defined by FEMA please include a separate map indicating the proposed well location within the flood plain.
Links to flood plain sites: <http://map.georgiadfirm.com/> <https://msc.fema.gov/portal/home>
2. The Proposed Pump Rate for the proposed new well must be included. Applications without this information will be delayed.
3. If the proposed new well site has any of the following within 250 feet: non-domestic septic systems, underground storage tanks, or commercial animal enclosures, poultry enclosures, or animal feedlots, you must include the location of the facility in relation to the proposed new well location on the maps that you provide.
4. If the proposed new well location will be replacing an existing well or if there are existing wells within a one mile radius of the proposed new well location, please submit the drillers logs from the nearby wells if they are available.
5. If you are proposing more than one new well location, you must include an application for each individual proposed new well location. However, you may use the same maps for each application if the proposed new well sites are near each other.
6. If the new well location is in the Coastal Plain and you are proposing that the well when drilled will be Confined, you will need to include documentation to support this (for example, well logs for nearby wells, or geologic publications).

Mail the completed form to: **Georgia EPD, c/o Michael Gillis, Source Water Assessment Program, 2 Martin Luther King Jr., Dr., Suite 1362 East Tower, Atlanta, Georgia 30334.**

If you have any questions regarding this form, please call Michael Gillis (470) 524-0728 (New number).

WELLHEAD PROTECTION / NEW WELL/SPRING APPLICATION SHEET

Georgia Department of Natural Resources
Environmental Protection Division

FOR COMMUNITY - MUNICIPAL DRINKING WATER SYSTEMS ONLY

This is a preliminary data check to expedite permitting of new drinking water sources for municipal - community systems. A separate application must be filed for each new well.

System Name: North Bryan County County: Bulloch

System ID. No. _____ System Permit No. 015-0007 Proposed Well/Spring No. _____

Owner: Bryan County Board of Commissioners Applicant: Same.
Address: 66 Captain Matthew Freeman Drive Suite 201 Address: _____
City/State/Zip: Richmond Hill, GA 31324 City/State/Zip: _____
Phone No.: (912) 756-7953 Phone No.: ()

Will this be a New Well X or Will this be an Existing Well _____ (if it is for an Existing Well please provide a well log)

The well is proposed south of Ga Hwy 119, east of US Hwy 80 E, and just north of the Bryan -

Well/Spring Address if applicable: Bulloch county line.

Submit a map - mark the well location on a USGS 7 1/2 minute topographic map or scaled and geographically referenced imagery such as Google Earth. A copy of a portion of a map is acceptable.

Is the well site located within a 100 year flood plain zone as defined by FEMA? _____ yes X no (if yes please provide a map)

Ground Elevation: 78 ft. MSL, Longitude: W -81.482170, Latitude: N 32.22960

PROPOSED WELL DESCRIPTION

Provide a well construction diagram

Proposed Drill Date: _____ Proposed Total Depth: 550 Proposed Pump Rate: 1,800 gpm

Name and Georgia License # of proposed driller : _____

PROPOSED DRILLING METHOD (Indicate)

Rotary: X Percussion: _____ Other: _____

PROPOSED CASING INTERVAL

From: 0 ft. To: 370 ft.

From: _____ ft. To: _____ ft.

PROPOSED BACKFILL MATERIAL & INTERVAL

Material: N/A

From: _____ ft. To: _____ ft.

PROPOSED WELL SCREEN / OPEN HOLE INTERVAL

From: 370 ft. To: 550 ft.

From: _____ ft. To: _____ ft.

PROPOSED GROUTING MATERIAL & INTERVAL

Material: Cemenet

From: 0 ft. To: 370 ft.

Please submit drillers logs from nearby wells if they are available.

PROPOSED WELLHEAD PROTECTION AREA

CONTROL ZONE

- _____ 25 ft. radius from wellhead for proposed wells
_____ 15 ft. radius from wellhead for existing wells with cement pad

PROPOSED INNER-MANAGEMENT ZONE: (indicate one, please see Figure 1)

<u>Aquifer Type</u>	<u>Wellhead Protection Area</u>
_____ Karst	500 ft. radius from the wellhead
_____ Piedmont Fractured Crystalline Rock	250 ft. radius from the wellhead
_____ Coastal Plain Unconfined	250 ft. radius from the wellhead
<u>X</u> _____ Coastal Plain Confined (attach documentation)	100 ft. radius from the wellhead
All wells in the Coastal Plain will be considered unconfined unless shown to be otherwise.	

PROPOSED OUTER-MANAGEMENT ZONE:

For the purpose of this application a proposed outer-management zone of one mile radius will be considered when identifying the potential pollution sources listed below. The final outer-management zone will be dependent upon well construction and the geology of the wellhead protection area. The final radius may range from 100 feet to several miles.

POTENTIAL POLLUTION SOURCE INVENTORY WITHIN THE PROPOSED WELLHEAD PROTECTION AREA

Indicate whether any of the following three potential pollution sources are present within the inner management zone. EPD will not permit the well/spring if any of them are present within the inner management zone.

yes no

- _____ No commercial animal enclosures poultry enclosures or animal feedlots
_____ No underground storage tanks
_____ No non-domestic septic systems

Further investigation will be necessary if any of the following lie within one mile of the proposed site.

yes no

- X _____ domestic septic systems
_____ X municipal solid waste landfill
_____ X industrial waste landfill
_____ X construction waste landfill
_____ X hazardous waste disposal
_____ X facilities handling hazardous waste
_____ X agricultural waste impoundments
_____ X land application of waste water/sludge

yes no

- _____ X commercial animal enclosures
_____ X animal feedlots
_____ X quarries/underground mines
_____ X underground storage tanks (unmonitored)
_____ X wastewater treatment basins
_____ X non-domestic septic systems
_____ X underground injection wells

PROPOSED ALTERNATE WATER SUPPLY

Please provide a brief description of the alternative water supply to be used in the event this well must be shut down.

In the event that the proposed well must be shut down, --- well will be used. In addition, the county plans to extend water mains to the existing
mega-site system.

Does this permit application affect or require another environmental permit or license or certification issued by the Georgia Environmental Protection Division? ☐ No ☒ Yes (if Yes, please indicate below)

- | | | | | |
|--|--|--|--|--|
| <input type="checkbox"/> Air Quality | <input type="checkbox"/> Asbestos | <input type="checkbox"/> Dam Safety | <input checked="" type="checkbox"/> Drinking Water | <input checked="" type="checkbox"/> Erosion/Sediment |
| <input type="checkbox"/> Hazardous Waste | <input type="checkbox"/> Lead-based Paint | <input type="checkbox"/> Radioactive | <input type="checkbox"/> Scrap Tires | <input type="checkbox"/> Solid Waste |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Underground | <input type="checkbox"/> Underground | <input type="checkbox"/> Wastewater | <input checked="" type="checkbox"/> Water Withdrawal |
| <input type="checkbox"/> Well Drilling | <input type="checkbox"/> Injection Control | <input type="checkbox"/> Storage Tanks | | |
| | <input type="checkbox"/> Other (specify): | | | |

I understand the Director of EPD is relying upon the accuracy of the information provided herein and in accordance with Section 9 of the Georgia Safe Drinking Water Act of 1977. I shall upon request of the Director or his representative, provide such additional information as may be necessary to complete final disposition of the application. I further understand it is unlawful for any person to own or operate a public water system, except in such a manner as to conform and comply with all rules, regulations, orders, and permits established under the provisions of the Georgia Safe Drinking Water Act of 1977 and applicable to the waters involved.

Name of Owner of the Water System as it will appear on the permit (Individual, City, County, Company, etc.) Please
Print
Owner's or Authorized Agent's Title:
Signature: _____

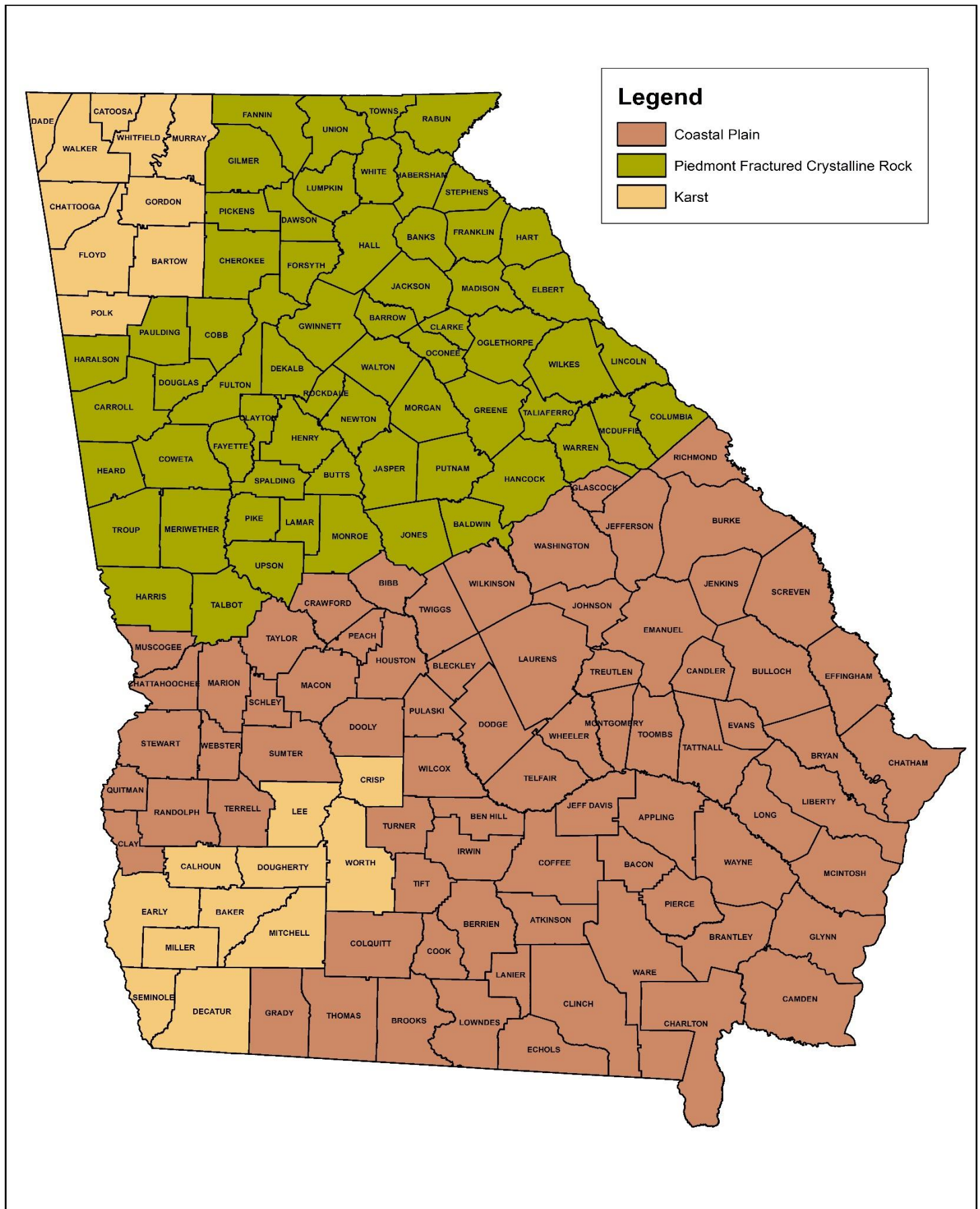
For governmentally owned water systems (Cities, Counties, Authorities):

To the best of my knowledge, the water system is in compliance with the Service Delivery Strategy (House Bill 489, 1997) for all counties in which its boundaries lie.

Owner's or Authorized Agent's Signature: _____ Date: _____

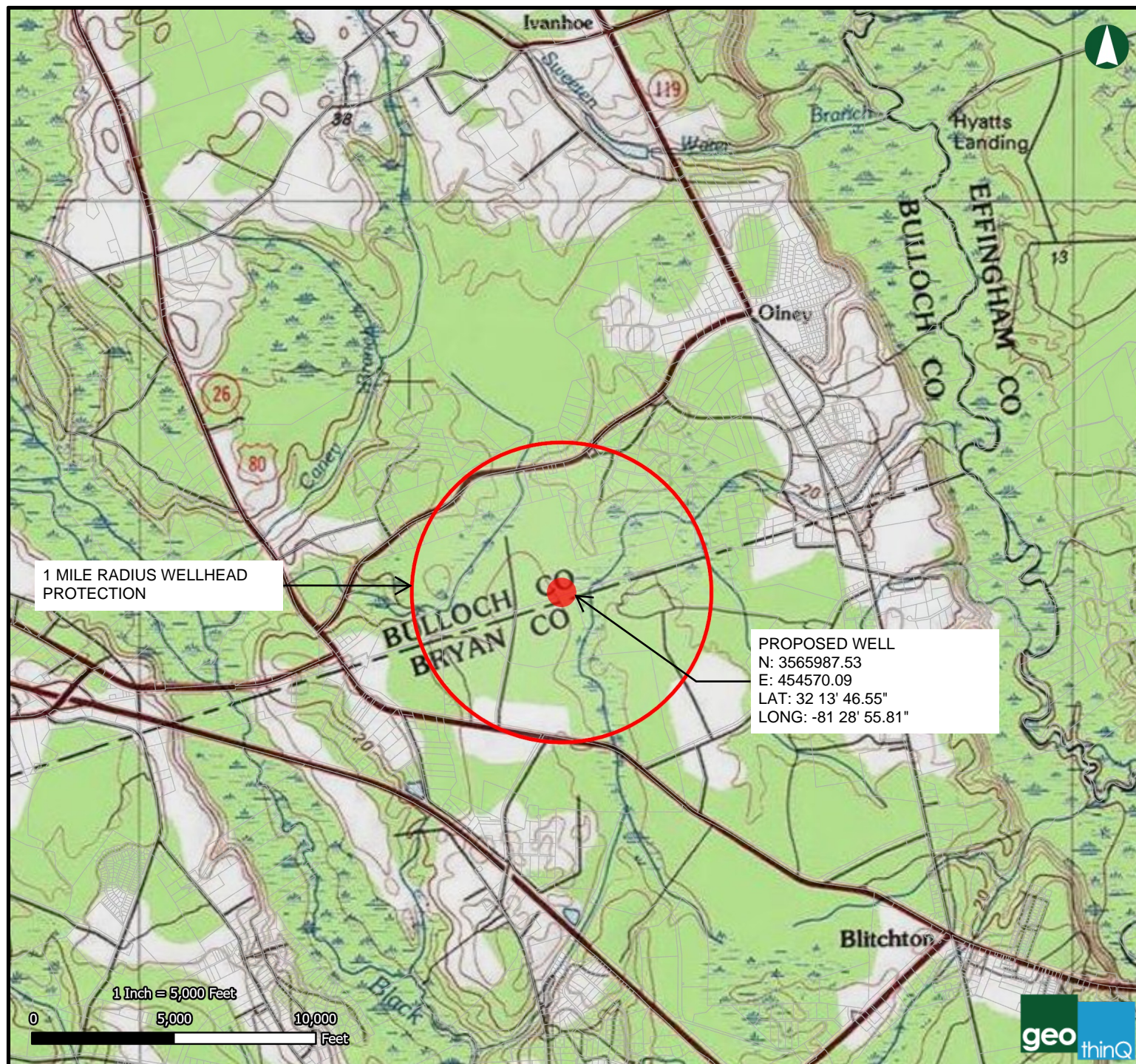
SEND FORM TO: Georgia EPD, c/o Michael Gillis, Source Water Assessment Program, 2 Martin Luther King Jr., Dr., Suite 1362 East Tower, Atlanta, Georgia 30334 If you have any questions regarding this form, please call Michael Gillis (470) 524-0728 (New number).

Figure 1. Map of Georgia indicating the aquifer type for each County for the purpose of identifying wellhead protection zones:

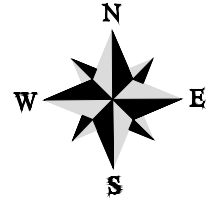


Well Location 1

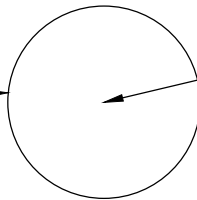
Bulloch County, Georgia
06/20/2023



SOUTHBOUND TIMBERLANDS LLC
193-000027-000



100' RADIUS WELL HEAD
PROTECTION ZONE



PROPOSED WELL
N: 811612.0000
E: 867822.5000
LAT: N032° 13' 46.56"
LONG: W081° 28' 55.81"

BULLOCH COUNTY
BRYAN COUNTY

SOUTHBOUND TIMBERLANDS LLC
028-028

BRYAN-BULLOCH WATER TRANSMISSION SYSTEM

SHEET:
GROUNDWATER WELL LOCATION

CLIENT:
BRYAN COUNTY BOARD OF COMMISSIONERS

LOCATION: BRYAN COUNTY, GEORGIA

DATE: 6/21/23

JOB NUMBER: J-27691.0081

DRAWN BY: CMP

REVIEWED BY: TW

SHEET: EXHIBIT

SCALE: 1" = 100'



50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300

www.thomasandhutton.com