

Georgia Department of Natural Resources
Environmental Protection Division

Watershed Protection Branch
4220 International Pkwy, Suite 101; Atlanta, Georgia 30354
Linda MacGregor, P.E., Branch Chief
(404) 675-6232

March 18, 2013

Mr. Robert Baumgardt
DPW Environmental Division
1550 Veterans Parkway
Building 1137
Fort Stewart, Georgia 31314

Re: Groundwater Withdrawal Permit # 089-0011

Dear Mr. Baumgardt:

In accordance with the Georgia Groundwater Use Act, as amended, a renewed permit to withdraw groundwater has been issued by the Division and is hereby enclosed. Please read your permit and note that your total system groundwater production limits are:

0.768 million gallons per day (mgd) monthly average and 0.768 mgd annual average,

from **one** well in the **lower Floridan** aquifer. Also, please read the Standard Conditions and Special Conditions contained within the permit. This permit will expire on **July 30, 2023** and must be renewed prior to the expiration date. Any change in the withdrawal limits or conditions under which your permit was issued will require a permit modification, see Chapter 391-3-2-.06, paragraph 6 of the Rules for specifics.

Please be aware that you are required to submit Groundwater Withdrawal Reports (GWWRs) on a monthly basis, which must be sent to EPD by the 10th day of the following month. Enclosed are some blank groundwater withdrawal report forms for your file. Please send each completed GWWR to:

Georgia Environmental Protection Division
Drinking Water & Water Withdrawal Program
Engineering & Permitting - Groundwater Unit
4220 International Parkway, Suite 101
Atlanta, Georgia 30354-3902

If you have any further questions, please call me at 404-675-1680, or email me at Bill.Frechette@dnr.state.ga.us.

Sincerely,



William Frechette
Unit Manager
Engineering & Permitting - Groundwater Unit

Enclosure

ENVIRONMENTAL PROTECTION DIVISION
DEPARTMENT OF NATURAL RESOURCES
STATE OF GEORGIA

PERMIT TO WITHDRAW GROUNDWATER

PERMIT NUMBER 089-0011 DATE: March 22, 2013

PERMIT HOLDER'S NAME DPW Environmental Division – Fort Stewart

PERMIT HOLDER'S ADDRESS 1550 Veterans Parkway, Bldg 1137, Fort Stewart, Georgia 31314 – Liberty County

In accordance with the Provisions of the Groundwater Use Act, (O.C.G.A § 12-5-90 et seq.) as amended, and the Rules and Regulations for Groundwater Use, Chapter 391-3-2, promulgated pursuant thereto, this Permit is issued to withdraw, obtain, or utilize a maximum system wide total of groundwater in the amount of:

0.768 million gallons per day monthly average and 0.768 million gallons per day annual average;

from one well located at Fort Stewart, Georgia – Liberty County for the purpose of a consumptive use for a central water supply.

This Permit is conditioned upon the permit holder complying with the following:

STANDARD CONDITIONS

- (1) The provisions of the Groundwater Use Act, as amended, or any of the Rules and Regulations promulgated pursuant thereto;
- (2) The Permit must not be transferred except with the approval of the Georgia Environmental Protection Division (EPD);
- (3) The Groundwater Withdrawal Report will be submitted MONTHLY in accordance with the following schedule:
 - Production between the first day of the month and the last day of the month will be submitted to EPD by the 10th day of the following month (ex. January 1st through January 31st groundwater withdrawal data will be reported to the EPD by February 10th).
- (4) The withdrawal of groundwater is limited to the quantities and purpose of the water herein specified.

SPECIAL CONDITIONS

- (5) This Permit is valid for ground water withdrawal from the Lower Floridan Aquifer. No other aquifer can be used without the approval of the EPD.
- (6) If multiple aquifers are designated in Special Condition (5) above, groundwater withdrawal of each aquifer must be reported separately. Each aquifer must be identified on the Groundwater Withdrawal Report, as well as listing the well or wells that are producing in each aquifer. If a well is producing in more than one aquifer, it is to be noted. The Groundwater Withdrawal Report must be submitted in accordance with the schedule outlined in Standard Condition (3) of this permit.
- (7) The replacement of any permitted well must receive prior approval from the EPD.

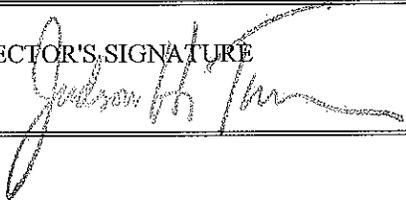
And the additional attached conditions (8 through 17), which are hereby made a part of this Permit.

In accordance with the application or letter dated January 25, 2013 and in conformity with the statements and supporting data entered therein or attached thereto, all of which are filed with the EPD of the Department of Natural Resources and are hereby made part of this Permit.

This permit is effective from the date first above written and is subject to revocation on evidence of noncompliance with any of the provisions of the Groundwater Use Act, as amended, or any of the Rules and Regulations promulgated pursuant thereto; or with any representation made in the above mentioned application or the statements and supporting data entered therein or attached thereto; or with any condition of this permit.

Absent prior revocation in accordance with the above language, this Permit will expire on the 30th Day of July 2023.

DIRECTOR'S SIGNATURE



DATE:

March 22, 2013

Director
Environmental Protection Division
Department of Natural Resources

SPECIAL CONDITIONS

- (8) This groundwater withdrawal permit and any future modifications or re-issuances of such, is conditional upon implementation of the relevant Lower Floridan Aquifer requirements and Water Conservation Plan. The permit holder must demonstrate an effort to increase water efficiency.
- (9) The permit holder must abide by applicable drought response requirements.
- (10) The permit holder must abide by applicable water conservation requirements.
- (11) In accordance with the Groundwater Use Rules, 391-3-2-.08(2), a permit holder will analyze a raw groundwater sample for specific conductance on an annual basis. Analysis for specific conductance must be conducted in accordance with 40 Code of Federal Regulations, Part 141.89. A raw groundwater sample will be collected for every five permitted wells (i.e., if you have between one and five permitted wells, collect one raw groundwater sample for analysis; if you have between six and ten permitted wells, collect a raw groundwater sample from two of the permitted wells, etc.). The groundwater samples must be collected from the highest yielding wells. The results must be submitted to the EPD on corporate letterhead and must include the date sampled, well number, temperature of water sample at time of testing, the specific conductance result, and the units of measurement.
- (12) The EPD has produced the 'Coastal Georgia Water & Wastewater Plan for Managing Salt Water Intrusion' (the Plan). The Plan has identified an array of water conservation, efficiency, and reuse requirements for public and private water providers. The permit holder is required to fully implement and otherwise comply with ALL appropriate requirements identified in the Plan.
- (13) The permit holder's use of an alternate water supply from the Lower Floridan aquifer has met all current policy requirements for water withdrawal permitting approval including the enumeration of calculated Upper Floridan-Lower Floridan production off-sets, as described in Special Condition 14 below.
- (14) The permitted withdrawal limits of the permit holder's Upper Floridan Groundwater Withdrawal Permit (089-0003) have been reduced by 0.2688 million gallons per day (mgd) from the previously permitted withdrawal limits of 5.500 mgd monthly average and 4.500 mgd annual average. This reflects the required offset calculated from the agreed upon 35% leakage rate of the permitted withdrawal limits (0.768 mgd monthly and annual average) on this Lower Floridan Groundwater Withdrawal Permit.
- (15) Upon termination of this groundwater withdrawal permit, the original permitted withdrawal limits on the permit holder's Upper Floridan Groundwater Withdrawal Permit (089-0003) of 5.500 mgd monthly average and 4.500 mgd annual average will be reestablished until such time as EPD implements the provisions outlined in the Plan to all permitted withdrawal systems in the Coastal Yellow Zone.
- (16) If EPD implements the provisions outlined in the Plan prior to the termination of this Lower Floridan groundwater withdrawal permit, then the withdrawal limits of the permit holder's Upper Floridan permit (089-0003) will be changed according to those consistent with the provisions of the Plan rather than those listed in Special Condition 15 above.
- (17) The permit holder must **meter all fire hydrant flushing events**.

PERMIT MODIFICATION

The permit holder may seek modification of any of the terms of an unexpired permit upon written request to the Director. The Georgia EPD has the authority to modify any groundwater withdrawal permit at any time.



Monthly Groundwater Withdrawal Report

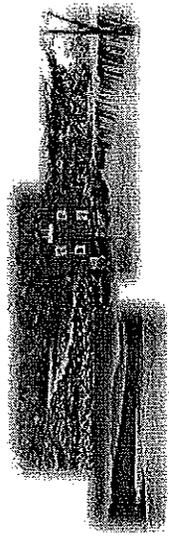
For permit holders who maintain a Groundwater Use Permit that allows withdrawal from multiple aquifers, please report usage from each aquifer separately. Use the additional columns in the table below to list the aquifer name and the reported usage from that individual aquifer.

Day of Month	Aquifer 1	Aquifer 2	Aquifer 3	Aquifer 4	Aquifer 5
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
Total (MG)*					
Average (MGD)**					

Grand Total from all aquifers: _____ mgd

Submit data for each Groundwater Withdrawal Permit. Permits that were not used must still be reported by inputting zero's for each day.

Reported Month:	
GW Withdrawal Permit Number:	
Permit Holder:	
Permit Address:	
Contact Person:	
Send to: Georgia Environmental Protection Division Watershed Protection Branch, VAWPP 4220 International Parkway, Suite 101 Atlanta, GA 30354-3902 Phone: (404) 675-1646 Fax: (404) 675-6244 E-mail: ground_water@dnr.state.ga.us	
I certify that all information contained on this form is correct and true to the best of my knowledge.	
Signature	Date
Print Name	
Title	
Phone Number	
Fax Number	
Email Address	
*MG represents millions of gallons. **MGD represents million gallons per day. Average is calculated by dividing total quantity of water withdrawn by the number of days in the calendar month. Average = (Total in MG / Days in month)	



Monthly Groundwater Withdrawal Report - Continued

Reported Month: _____		Permit No.: _____		Permit Holder Name: _____	
First Well Data	Static Water Level**	ft	Elevation:	ft	Well No
	Date Measured		Number of hours shutdown for Static Water Level		
	Pumping Water Level**	ft	Elevation:	ft	Well No
	Date Measured		Number of continuous hours pumped for Pumping Water Level		
Method of Measurement		<input type="checkbox"/> Airline <input type="checkbox"/> Ground		<input type="checkbox"/> Probe <input type="checkbox"/> Top of Casing <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Other (Specify) _____	
Second Well Data	Static Water Level**	ft	Elevation:	ft	Well No
	Date Measured		Number of hours shutdown for Static Water Level		
	Pumping Water Level**	ft	Elevation:	ft	Well No
	Date Measured		Number of continuous hours pumped for Pumping Water Level		
Method of Measurement		<input type="checkbox"/> Airline <input type="checkbox"/> Ground		<input type="checkbox"/> Probe <input type="checkbox"/> Top of Casing <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Other (Specify) _____	
Third Well Data	Static Water Level**	ft	Elevation:	ft	Well No
	Date Measured		Number of hours shutdown for Static Water Level		
	Pumping Water Level**	ft	Elevation:	ft	Well No
	Date Measured		Number of continuous hours pumped for Pumping Water Level		
Method of Measurement		<input type="checkbox"/> Airline <input type="checkbox"/> Ground		<input type="checkbox"/> Probe <input type="checkbox"/> Top of Casing <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Other (Specify) _____	
Fourth Well Data	Static Water Level**	ft	Elevation:	ft	Well No
	Date Measured		Number of hours shutdown for Static Water Level		
	Pumping Water Level**	ft	Elevation:	ft	Well No
	Date Measured		Number of continuous hours pumped for Pumping Water Level		
Method of Measurement		<input type="checkbox"/> Airline <input type="checkbox"/> Ground		<input type="checkbox"/> Probe <input type="checkbox"/> Top of Casing <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Other (Specify) _____	
Fifth Well Data	Static Water Level**	ft	Elevation:	ft	Well No
	Date Measured		Number of hours shutdown for Static Water Level		
	Pumping Water Level**	ft	Elevation:	ft	Well No
	Date Measured		Number of continuous hours pumped for Pumping Water Level		
Method of Measurement		<input type="checkbox"/> Airline <input type="checkbox"/> Ground		<input type="checkbox"/> Probe <input type="checkbox"/> Top of Casing <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Other (Specify) _____	

*** Take readings from the highest yielding well(s), using the same well(s) each time the water measurement is recorded. For additional wells, please follow the format listed below:
 From 1-5 wells - take readings from ONLY 1 well From 6-10 wells - take readings from 2 wells From 11-15 wells - take readings from 3 wells From 16-20 wells - take readings from 4 wells