

ENVIRONMENTAL PROTECTION DIVISION
DEPARTMENT OF NATURAL RESOURCES
STATE OF GEORGIA

PERMIT TO USE GROUNDWATER

PERMIT NUMBER	150-0026	DRAFT	DATE: XXXX, 2009
PERMIT HOLDER	Power4Georgians, LLC		
CONTACT ADDRESS	258 North Harris Street, Sandersville, Georgia 31082 – Washington 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:

16.120 million gallons per day monthly average and 16.120 million gallons per day annual average, from fifteen (15) wells located throughout Washington County (divided between the Oconee and Ogeechee River basins) for the purpose of a consumptive use for sanitary facilities, boiler water, refilling of storage ponds, back-up cooling and process water for coal fired Power Plant.

This permit amount is made up of:

- a) **0.120 million gallons a day monthly average and 0.120 million gallons per day annual average, from one (1) well (P) in the Ogeechee River basin, located on the plant site at Mayview Road, Sandersville, Georgia - Washington County for the purpose of a consumptive use for sanitary facilities, boiler water and other process needs for the coal fired Power Plant and;**
- b) **16.000 million gallons a day monthly average and 16.000 million gallons per day annual average, from fourteen (14) wells located throughout Washington County (six (6) wells (A-C, E-G) in the Oconee River basin and eight (8) wells (H-O) in the Ogeechee River basin), for the purpose of a consumptive use for refilling of storage ponds, backup cooling, and process water for the coal-fired Power Plant.**

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 shall not be transferred except with the approval of the Georgia Environmental Protection Division (EPD);
- (3) As otherwise designated by EPD, the combined Groundwater Use Report and the Surface Water Withdrawal Report shall be submitted MONTHLY in accordance with the following schedule:
 - Production between the first day of the month and the last day of the month shall be submitted to EPD by the 10th day of the following month (ex. January 1st through January 31st groundwater use data shall be reported to the EPD by February 10th).
 - In addition to groundwater and surface water withdrawals, the report will provide the 30 day, on-site, raw water storage withdrawals, discharges to the Oconee River and consumptive use.
- (4) The use 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 **Cretaceous Sand** 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 use of each aquifer shall be reported separately. Each aquifer shall be identified on the Groundwater Use 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 Use Report shall 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 EPD.

And the additional attached conditions (8 through 19), which are hereby made a part of this Permit.

In accordance with the letter dated **January 17, 2008**, as supplemented and amended, and in conformity with the statements and supporting data entered therein or attached thereto, all of which are filed with the EPD 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 shall expire on the **XXth day of XXX, 2019**.

DIRECTOR'S SIGNATURE	DATE:	Director
DRAFT	XXXX, 2009	Environmental Protection Division Department of Natural Resources

SPECIAL CONDITIONS

- (8) The permit holder will cooperate with the EPD in the coordination of its water withdrawal requirements associated with this Groundwater Use Permit No. 150-0026 and the Surface Water Withdrawal Permit No. 150-0391-04
- (9) The permit holder will submit to EPD a five-year Water Conservation Progress report pursuant to the completed Water Conservation Plan no later than XXXX, 2014. Future modifications and renewals of this Permit will be linked to the appropriate implementation of the Water Conservation Plan. This Progress Report should include any actions and/or improvements made to conserve water and reduce water losses (e.g., leak detection and leak repair, meter installation and calibration, meter replacement, education efforts, and xeriscaping techniques, etc.). The Water Conservation Progress Report must also include a comparison of water loss trends, consumptive loss trends, and annual efficiency (a comparison of gallons of water used per unit of product produced) for each of the previous five years.
- (10) In accordance with the Groundwater Use Rules, 391-3-2-.08(2), a permit holder shall analyze a raw groundwater sample for specific conductance on an annual basis. Analysis for specific conductance shall be conducted in accordance with 40 Code of Federal Regulations, Part 141.89. A raw groundwater sample shall 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 shall be collected from the highest yielding wells. The results shall be submitted to the Division on corporate letterhead and shall include the date sampled, well number, temperature of water sample at time of testing, the specific conductance result, and the units of measurement.
- (11) The permit holder must abide by applicable drought response requirements.
- (12) The permit holder will operate and abide by its Water Metering Plan.
- (13) The permit holder shall implement the long-term aquifer-monitoring program for the determination of the actual impacts of groundwater withdrawals on water levels in the Cretaceous Sand aquifer and the shallow water table in Washington County. This shall include a minimum of nine monitoring wells. At least six monitoring wells shall be placed in the Cretaceous Aquifer, with at least three placed along the line of production wells and at least three placed away from the line of production wells. At least three monitoring wells shall be placed in the shallow water table aquifer, sited closest to highest producing Cretaceous aquifer production wells.
- (14) All the monitoring wells shall be equipped with Transponder Data Loggers that shall be downloaded and read monthly, at least for the first three cycles of groundwater-surface water operations. The frequency and timing of this requirement may be modified based on the resulting information collected.
- (15) The company must implement adaptive management strategies to limit or minimize adverse impacts to the aquifer due to groundwater pumping if the on-going long-term aquifer monitoring program shows that the actual impacts of the groundwater withdrawals on water levels in the Cretaceous aquifer and the shallow water table aquifer are more severe than those modeled.
- (16) The permit holder shall not withdraw surface water and backup groundwater at the same time. Surface water will be the primary source of water for this facility. The withdrawal limits on page one section b of this Permit for Groundwater Withdrawal and the withdrawal limits on page one of the Surface Water Withdrawal Permit (Permit # 150-0391-04) shall not be added together.
- (17) Groundwater will be considered as a backup source to surface water specifically for cooling water and power plant process water, up to the limits shown on page one - section b (16.000 mgd monthly and annual average) of this permit.
- (18) Groundwater withdrawals up to the limits shown on page one (0.120 mgd monthly and annual average) are allowed at all times for designated sanitary facilities, boiler water and other process needs.

DRAFT

- (19) During low flow conditions, if the storage ponds are depleted by 40 percent of their volume, backup groundwater supply wells will be operated as shown in section b on page one of this permit (16.000 million gallons per day monthly average and annual average). The backup groundwater supply wells operation may continue for approximately 70 days to replenish the storage volume in the on-site storage ponds. Once the on-site storage ponds have been filled and the Oconee River streamflow has increased to the non-depletable flow plus the permitted surface water withdrawal limits, for 10 consecutive days, then water withdrawals from the Oconee River will resume.
- (20) The Permit Holder must not vary from the individual well pumping withdrawal quantity pattern proposed in the pre-permitting hydrologic model runs for the operation of the 14 wells to supply water for the purpose of refilling the 30-day storage pond, backup cooling and process water for the coal-fired power plant.

DRAFT

PERMIT MODIFICATION

The permit holder may seek modification of any of the terms of an unexpired permit upon written request to the Director.