

PERMIT NO. 056-1102-12  
ISSUANCE DATE: October 30,  
2020



# GEORGIA

DEPARTMENT OF NATURAL RESOURCES

## ENVIRONMENTAL PROTECTION DIVISION

### PERMIT TO WITHDRAW, DIVERT OR IMPOUND SURFACE WATER

PERMIT HOLDER'S NAME **Fayette County Board of Commissioners**  
PERMIT HOLDER'S ADDRESS **140 Stonewall Avenue, Fayetteville, GA 30215**  
COUNTY: **Fayette**

In accordance with the provisions of the Georgia Water Quality Control Act, (O.C.G.A. § 12-5-20 et seq.) as amended, and the Rules and Regulations for Water Quality Control, Chapter 391-3-6, promulgated pursuant thereto, this permit is issued to withdraw surface water from Lake Horton in the Flint River Basin for the purpose of municipal water supply.

**The Fayette County Board of Commissioners (Permittee)** must comply with the following limitations:

- (1) Maximum 24 hour: Withdrawal **14.00** MGD; Impoundment \_\_\_\_ MGD; Diversion \_\_\_\_ MGD
- (2) Not to exceed a monthly average of **14.00** MGD

This Permit is conditioned upon the permit holder complying with the attached **Standard Conditions** (1 through 5) and the additional **Special Conditions** (13 through 20) which are hereby made a part of this Permit.

In accordance with the application dated **7/20/2020** and in conformity with the statements and supporting data entered therein or attached thereto, all of which are filed with the Environmental Protection Division 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 pursuant to the Georgia Water Quality Control Act, as amended, O.C.G.A. § 12-5-31 (k).

Absent prior revocation in accordance with the above language, this Permit will expire **ten (10) years** from the issuance date on this permit.



*R. Dunn*

Richard E. Dunn, Director  
Environmental Protection Division

This permit is conditioned upon the permittee complying with the provisions of the Water Quality Control Act, as amended, or any of the Rules and Regulations promulgated thereto;

**STANDARD CONDITIONS**

1) GENERAL PERMIT CHARACTERISTICS

- a) The use of surface water is limited to the quantities and purposes as specified herein;
- b) Water associated with this Permit must not be withdrawn by, released for, or otherwise utilized by any other entity or for any other purpose without first modifying this Permit.
- c) This permit must not be transferred except with the approval of the Georgia Environmental Protection Division (EPD);
- d) This permit supersedes any and all previous permits of the same permit number.

2) PERMIT RENEWAL

All permittees desiring to renew a permit shall submit an application for renewal to the Director within six (6) months prior to its expiration.

3) PERMIT MODIFICATION

- a) The permittee may seek modification of any of the terms of an unexpired permit upon written request to the Director.
- b) EPD has the authority to modify any surface water withdrawal permit at any time.

4) MONITORING AND REPORTING

- a) The permittee must submit annually to the EPD, within 30 days of completion of the calendar year, a report listing for each month of the previous year:
  - 1. The gallons per day withdrawn, based on an average of the daily withdrawals for the month;
  - 2. The maximum 24 hour withdrawal;
- b) In addition to Condition 4a, the permittee must submit to EPD within 10 days of completion of the calendar month, a monthly Surface Water Withdrawal Report for the previous month showing daily raw water withdrawals associated with this Permit.

5) WATER PLANNING REQUIREMENTS

- a) The permittee must abide by all applicable water conservation requirements, which may include but are not limited to submission of a Water Conservation Plan for EPD approval and submission of a five-year Water Conservation Progress Report in accordance with 391-3-6-.07. The Progress Report must include all actions and improvements made to conserve water and reduce water loss and shall be submitted for EPD review by 15<sup>th</sup> October 2025.
- b) The permittee must abide by all applicable drought response requirements, which include but are not limited to the Georgia Drought Management Rule (391-3-30) and the permittee's Drought Contingency Plan.
- c) The permittee must maintain ongoing compliance with applicable "Metropolitan North Georgia Water Planning District Water Supply and Water Conservation Management Plan" requirements.

**SYSTEM INFORMATION**

- 6) The Fayette County Board of Commissioners has four permitted reservoir sources for municipal water supply: Lake Horton (this permit), Lake Peachtree (Permit No. 056-1102-03), Lake Kedron (Permit No. 056-1102-06), and Lake McIntosh (Permit No. 056-1102-09). The combined storage capacity of these reservoirs is 7.6 billion gallons. The permittee also withdraws water from the Flint River under Permit No. 056-1102-13 for municipal water supply. Attachment - 1 gives an overview of Fayette County's water supply sources and their interactions.
- 7) Lake Peachtree is owned by the City of Peachtree City. Fayette County is contracted to operate the reservoir as part of its larger water system.
- 8) Water withdrawn under the County's five surface water permits supplies water to its two water treatment plants, the Crosstown Water Treatment Plant (13.5 MGD production capacity) and the South Fayette Water Treatment Plant (9.3 MGD production capacity). Both plants are covered under Drinking Water Permit No. GA1130001.
- 9) The County has a wholesale interconnection agreement with the City of Atlanta to purchase up to 4 MGD of treated water in an emergency. Fayette County also holds wholesale interconnection agreements to provide treated water to the City of Fayetteville (no less 1000 gallons per day) and both buy water from and sell water to Clayton County on an as needed basis.
- 10) Water released from Lake Horton was originally measured through the "V" notch weir in the low flow weir wall located immediately downstream of the plunge pool, below Lake Horton dam. USGS Gage 02344424 was installed to determine flows in Horton Creek immediately downstream of the weir wall. The USGS gage station is located at the plunge pool below Lake Horton Dam and is accessible by a driveway below the dam.
- 11) The water pumped from Lake Horton under this permit can be used to supply water to the holding ponds at both the Crosstown Water Treatment Plant and the South Fayette County Water Treatment Plant.

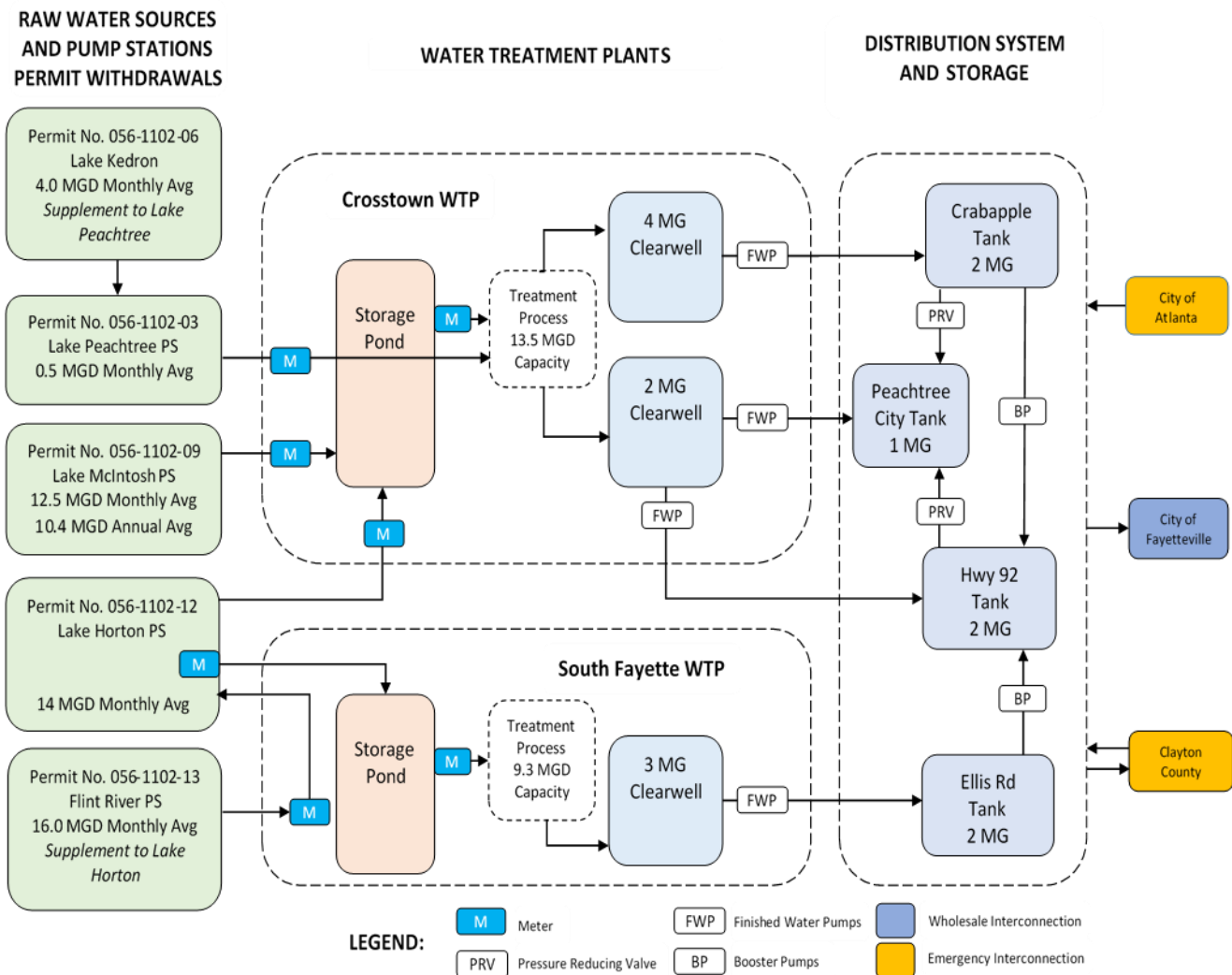
- 12) The water pumped from the Flint River under Permit No. 056-1102-13 is used to fill both the storage pond at the South Fayette Water Treatment Plant and Lake Horton (this permit) to contribute to its safe yield. The safe yield of Lake Horton was calculated to be 20 MGD as shown in the *Water Supply Analysis for Fayette County, Georgia* report amendment, dated January 2005. This report used data between 1950 and 1959 as the drought of record for its calculations.

**SPECIAL CONDITIONS**

- 13) The permittee's Lake Horton Reservoir is located approximately 1.5 miles east of Brooks, GA on Horton Creek. The dam is located just south of the confluence of Antioch Creek and Woolsey Creek in Fayette County. The pump station intake structure is located inside Lake Horton Park at 1275 Antioch Road, Fayetteville, GA. The pump station can be accessed by a driveway located 470 feet from the end of Antioch Road. Water withdrawn from Lake Horton and pumped to the South Fayette Treatment Plant must be metered at the dedicated meter located inside the pump station. Water withdrawn from Lake Horton and pumped to the Crosstown Treatment plant must be measured at a dedicated meter located at the Crosstown Treatment plant. The addition of flows through these two meters represents the total withdrawal from the Lake.
- 14) The permittee must continuously release below the Lake Horton weir wall a low flow of 2.6 cubic feet per second (cfs) or natural streamflow, whichever is less, as measured at USGS Gage 02344424. The release structure is located at the dam and is accessible by a driveway located at 456 Grant Rd, Fayetteville, GA. Streamflow records that serve as the basis for operational decisions must be kept on file at the water treatment plant and submitted annually to EPD by March 1 of each calendar year.
- 15) The total quantity of water supplied to the Crosstown Water Treatment Plant from Lake Horton (this permit), Lake Peachtree (Permit No. 056-1102-03), Lake Kedron (056-1102-06), and Lake McIntosh (Permit No. 056-1102-09) must not exceed 13.5 MGD.
- 16) The permittee must not transfer any water withdrawn via this permit to any entity operating outside the Flint River basin without EPD approval of such a transfer.
- 17) The permittee must submit an updated safe yield analysis and accompanying report to EPD within 9 months of the issuance date of this permit. The analysis must incorporate the most recent period of applicable data available, incorporating both 2007-2008 and the 2011-2012 droughts.
- 18) The permittee must operate in accordance with all criteria for Water Supply Watersheds as outlined in 391-3-16-.01, including the applicable Water Supply Watershed Protection Plan.
- 19) In accordance with 391-3-33-.05, any future renewal or modification is conditioned upon the demonstration of progress towards increased water efficiency. The permittee must submit an annual Water Audit by March 1 of each year and maintain ongoing compliance with the following:
- a) Establishment of a Water Loss Control Program and associated goals to set measures of water supply efficiency.
  - b) Demonstration of progress toward increased water efficiency using the measures established.

- 20) To ensure progress toward increasing water supply efficiency, the permittee must provide a progress report every year starting one (1) year from the permit issuance date, based on the permittee's Water Loss Control Plan, on efforts made to reduce Water Loss within the permittee system. The progress reports must provide a description of implemented measures and how the implemented measures have reduced the system's Non-Revenue Water. This annual report must continue to be submitted every year to ensure continued progress.

**Attachment - 1**



**Fayette County Board of Commissioners Permits Summary:**

Permit No. 056-1102-03 Lake Peachtree (Maximum 24-hour withdrawal 0.55 mgd; Monthly Average 0.5 mgd)  
 Permit No. 056-1102-06 Lake Kedron (Max. 24-hr withdrawal 4.5 mgd; Monthly Average 4.0 mgd)  
 Permit No. 056-1102-09 Lake McIntosh (Max. 24-hour 17.0 mgd; Mo. Avg. 12.5 mgd; Ann. Avg. 10.4 mgd)  
 Permit No. 056-1102-12 Lake Horton (Max. 24-hr withdrawal 14.0 mgd; Monthly Average 14.0 mgd)  
 Permit No. 056-1102-13 Flint River (Maximum 24-hr withdrawal 16.0 mgd; Monthly Average 16.0 mgd)



**Richard E. Dunn, Director**

**Watershed Protection Branch**

2 Martin Luther King, Jr. Drive  
Suite 1152, East Tower  
Atlanta, Georgia 30334  
404-463-1511

October 30, 2020

Ms. Vanessa Tigert, P.G., Director  
Fayette County Water System  
P. O. Box 190  
245 McDonough Road  
Fayetteville, GA 30214

RE: Surface Water Withdrawal Permit Application (Renewal)  
Permit # 056-1102-12  
Source: Lake Horton in Flint River Basin  
Permit Limits: 14.0 mgd max 24-hr day/ 14.0 mgd monthly average

Dear Ms. Tigert:

In accordance with the Georgia Water Quality Control Act, as amended, the above referenced permit to withdraw surface water from the Lake Horton in Flint River Basin has been issued by the Division and is hereby enclosed. The conditions of compliance are provided in this permit. Standard Condition number (4)(b) requires the permit holder to submit to the Division within the first 10 days of the calendar month, a monthly Surface Water Withdrawal Report for the previous month, showing daily raw water withdrawals associated with this permit. A copy of this reporting form is included.

Exceeding the maximum 24-hour or monthly average withdrawal limitations is a Permit violation and must be reported to the Water Protection Branch by telephone (404) 463-1511 within 48 hours and confirmed in writing within 10 days. Failure to comply with any of the provisions of the Permit may make the permit holder liable for civil penalties as provided by the Act.

If you have any questions, please do not hesitate to contact me at (404) 656-6937 or [Johanna.Smith@dnr.ga.gov](mailto:Johanna.Smith@dnr.ga.gov)

Sincerely,

Johanna Smith, P.E.  
Surface Water Unit Manager  
Water Supply Program