

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
WATER USE
INDIVIDUAL
PERMIT NO. 2010420.02

EXPIRATION DATE: March 26, 2016

PERMIT ISSUE DATE: March 26, 1996

THE PERMITTEE IS RESPONSIBLE FOR APPLYING FOR A RENEWAL OF THIS PERMIT PRIOR TO THE EXPIRATION DATE WHETHER OR NOT THE PERMITTEE RECEIVES PRIOR NOTIFICATION BY MAIL. FAILURE TO DO SO AND CONTINUED USE OF WATER AFTER EXPIRATION DATE IS A VIOLATION OF DISTRICT RULES AND MAY RESULT IN A MONETARY PENALTY AND/OR LOSS OF WATER. APPLICATION FOR RENEWAL PRIOR TO THE EXPIRATION DATE IS SUBJECT TO DISTRICT EVALUATION AND APPROVAL.

This permit, issued under the provision of Chapter 373, Florida Statutes and Florida Administrative Code 40D-2, authorizes the Permittee to withdraw the quantities outlined herein, and may require various activities to be performed by the Permittee as outlined by the Special Conditions. This permit, subject to all terms and conditions, meets all District permitting criteria.

GRANTED TO: Peace River/Manasota Regional
Water Supply Authority
1451 Dam Road
Bradenton, FL 34202

Charlotte County
20101 Peachland Blvd.
Suite No. 301
Port Charlotte, FL 33954

DeSoto County
P.O. Drawer 2076
Arcadia, FL 33821

Sarasota County
1301 Cattlemen Road
Sarasota, FL 34232

City of North Port
P.O. Box 7228
North Port, FL 34287

ABSTRACT: This is a renewal with modification to increase quantities on an existing water use permit (WUP) within the Southern Water Use Caution Area. The modification is for the inclusion of existing and proposed wholesale water purchasers (Charlotte County, DeSoto County, City of North Port and Sarasota County) as co-permittees and an increase in public supply demand and associated quantities as a result of projected population growth in the existing and expanded service areas. This permit authorizes an increase in Annual Average, Peak Month and Maximum Daily quantities necessary to provide for this expansion. The diversion from the Peace River, treatment plant capacity, Aquifer Storage and Recovery (ASR) capacity and water transmission system are all to be expanded at scheduled intervals to provide for this growth.

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annual average quantities are assigned based on the applicant's and co-permittees' updated water demand projections. These projections were compared with the June 1993 Facility Expansion Plan and the January 1992 Draft of the District's Needs and Sources water demand projections. The water demands are in general accordance with the projections reported by the District in the Needs and Sources report. Maximum daily quantities are assigned based on the maximum diversion capacity from the Peace River.

In addition to the standard permit conditions, special conditions require daily recording and monthly reporting of pumpage from the Peace River Regional Water Supply Facility (PRRWSF) surface water intake structure on the Peace River, PRRWSF surface reservoir water-intake structure, PRRWSF untreated water meter, and the PRRWSF discharge meter; daily recording and monthly reporting of Peace River flow as read at the Arcadia Station; monthly recording and reporting of pumpage from all ASR wells; restriction of water pumped via ASR to not exceed the amount of water stored; stipulating a minimum flow level of 130 cubic feet per second (cfs) before a diversion of up to 10% of flow may occur; allowing maximization of ASR for storage; the collection of background water quality data for new ASR wells; continuation of recording and reporting of water levels for existing monitor wells; water quality sampling and reporting on a monthly basis for groundwater monitor wells and all ASR wells during recharge and recovery operations; requiring capping of unused wells; specific well construction design and submittal of well completion reports and geophysical logs for the proposed ASR wells; the implementation of a Proposed 1995-2015 "Hydrobiological Monitoring Program"; specifying permit review time frames in regard to permitted quantities, projected demands, special conditions, diversion schedule and ASR operations; the submittal of an "ASR Groundwater Monitoring Program"; the submittal of an "ASR Groundwater Mitigation Plan"; the submittal of an "ASR Ecological and Wetland Monitoring Program"; the obtaining of all surface water permits prior to new construction; a report on the future use of a capped ASR well; requiring submittal of a report outlining a plan for an alternate and supplemental sources of water for public supply other; and the submittal of a Water Conservation Plan.

TOTAL QUANTITIES AUTHORIZED UNDER THIS PERMIT (in gpd)

AVERAGE: 32,700,000 PEAK MONTHLY: 38,100,000 MAXIMUM GPD: 90,000,000

<u>Use</u>	<u>Average</u>	<u>Peak Monthly</u>	<u>Maximum GPD</u>
Public Supply:	32,700,000 gpd	38,100,000 gpd	90,000,000 gpd

See Withdrawal Table for quantities permitted for each withdrawal point.

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7. The Permittee shall be allowed to divert surface water from the Peace River with the following limitations:
 - a. No diversion from the Peace River may occur when the average daily flow as measured at the Arcadia Station for the previous day was less than 130 cubic feet per second (cfs).
 - b. The amount of diversion on the Peace River at District Withdrawal No. 14 shall not exceed 10 percent of the average daily flow rate of the river as read at the Arcadia Station for the previous day.
 - c. However, in no case shall the diversion amount exceed the difference between the previous day measurement at the Arcadia Station and 130 cfs.
8. Aquifer Storage and Recovery (ASR) shall be maximized for storage (recharge) of water, which has been withdrawn from the Peace River at District Withdrawal No. 14 and treated at the Peace River Regional WTF. Storage shall be in the Tampa and Suwannee Formations of the Upper Floridan aquifer. Delivery (recovery) of this stored water to the service customers shall be in quantities not to exceed the Annual Average and Peak Month quantities allowed under the permit for the entire ASR system. The quantities of water withdrawn from the Peace River for the purpose of storage in the aquifers or surface reservoir will not be included in these limiting quantities but shall be limited by the Maximum Daily quantity and the minimum flow criteria as detailed in Special Condition No. seven (7). The Permittee shall operate ASR (recharge and recovery) as deemed necessary for the best interests of their service customers, but subject to the Special and Standard conditions of this permit.
9. Background water quality samples shall be collected during drilling from all ASR production wells completed after issuance of this permit. The samples shall be collected at intervals of 50 feet or less, from 600 feet below land surface to the bottom of the well or as may otherwise be specified in the well construction permit in accordance with regulatory requirements in effect at the time.

Samples shall be analyzed by a certified laboratory for total dissolved solids, sulfate, conductivity, chlorides, and pH. The Permittee's sampling procedure shall follow the handling and chain of custody procedures designated by the certified laboratory which will undertake the analysis. Reports of the analyses shall be submitted to the Permit Data Section (using District approved forms) within thirty days of sampling, and shall include the signature of an authorized representative and the certification number of the Department of Health and Rehabilitative Services (DHRS) certified laboratory under Environmental Laboratory Certification General Category "1" which undertook the analysis.

Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association-American Water Works Association-Water Pollution Control Federation (APHA-AWWA-WPCF) or by Methods for Chemical Analyses of Water and Wastes by the U.S. Environmental Protection Agency (EPA).

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- c. The proposed well(s) shall be constructed of materials that are resistant to degradation of the casing/grout due to interaction with the water of lesser quality. A minimum grout thickness of two (2) inches is required on wells four (4) inches or more in diameter.
- d. A minimum of twenty (20) feet overlap and two (2) centralizers is required for Public Supply wells, and for all wells six (6) inches or more in diameter.
- e. The finished well casing depth and total depth shall not vary from these specifications by greater than ten (10) percent unless advance approval is granted by the Regulation Department Director, or the Supervisor of the Well Construction Permitting Section in Brooksville. A proposal to significantly decrease total depth may require permit modification, if the District determines that such a change would result in significantly greater withdrawal impacts than those considered for this Permit.
- f. Advance approval from the Regulation Department Director, is necessary should the Permittee propose to change the well location or casing diameter.
- g. A copy of the Well Completion Report and all geophysical logs for proposed wells, shall be submitted to the District within 90 days of each well completion date.

15. The Permittee shall implement the Proposed 1995-2015 Peace River "Hydrobiological Monitoring Program" (HBMP) submitted to and approved by the District prior to the issuance of this permit. As specified in the HBMP, the District will convene a scientific review panel to review the progress and findings of the HBMP.

16. Due to the term of this permit, it shall be subject to additional comprehensive review by the District in regard to permitted quantities, projected demands, special conditions, diversion schedule and ASR operations on a periodic basis. These periods shall coincide with the Hydrobiological Monitoring Program (HBMP) requirements and generally occur within five, ten and fifteen years from the date of issuance. The reviews may result in modification to the permit in accordance with applicable District Water Use Permitting rules. This includes those rules related to adverse environmental impacts to natural resources such as the lower Peace River/Charlotte Harbor ecosystem as evidenced by the HBMP and attributed to withdrawals from the Peace River by the Permittee.

A summary of the review and any proposed modifications to the permit duration, special conditions and/or withdrawal quantities shall be prepared by District staff for approval from the Regulation Department Director in concert with the HBMP.

17. By August 1, 1997, the Permittee shall submit to the District for approval, a proposed "ASR Groundwater Monitoring Program". The program shall be phased to parallel the proposed development of the ASR facilities.

The first phase of the program will include a network of unconfined aquifer (water table) and confined aquifer (artesian) monitoring wells strategically located to the first phase of the ASR well expansion. The development of the