



## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Jonathan P. Steverson  
Secretary

### SENT VIA ELECTRONIC MAIL

In the Matter of an Application for Permit by:

14 December 2016

Mr. Patrick J. Lehman, P.E., Executive Director  
Peace River Regional Water Supply Authority  
9415 Town Center Parkway  
Lakewood Ranch, FL 34202  
[PLehman@RegionalWater.org](mailto:PLehman@RegionalWater.org)

Desoto County UIC  
FDEP File No: **136595-016-017-UO/M5**  
WACS ID Number: **40593**  
Class V ASR Injection Well System  
Operation Permit

### NOTICE OF PERMIT

Enclosed is Permit Number **136595-016-017-UO/M5** to modify a non-hazardous Class V injection well operation permit to allow cycle tests of aquifer storage and recovery (ASR) wells S-4 and S-20 at wellfield No. 2. ASR wells S-4 and S-20 will receive partially treated surface water. Recharge of the remaining nineteen ASR wells with potable water from the Peace River Water Treatment Plant (WTP), 8998 SW County Road 769, Arcadia, DeSoto County will continue at Wellfields No. 1 & 2. ASR wells S-4 and S-20 will be recharged with 2 to 4 million gallons per day each.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, [agency\\_clerk@dep.state.fl.us](mailto:agency_clerk@dep.state.fl.us); and by filing a copy of the Notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Leon County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

A handwritten signature in cursive script that reads "Joseph Haberfeld".

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Joseph Haberfeld, P.G.  
Environmental Administrator  
Aquifer Protection Program  
Division of Water Resource Management

**PERMITTEE:** Mr. Patrick Lehman, Executive Director  
Peace River Water Treatment Plant  
Class V, ASR Injection Well System

**WACS ID No.:** 40593  
**Permit ID No.:** 136595-016-017-UO/M5  
**Date:** December 14, 2016

### **CERTIFICATE OF SERVICE**

The undersigned designated clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed before the close of business on Wednesday, December 14, 2016, to the listed persons.

### **FILING AND ACKNOWLEDGMENT**

**FILED**, on this date, pursuant to Section.120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged



Clerk

December 14, 2016

Date

#### **Copies Furnished To:**

Joseph Haberkfeld, FDEP/TLH  
Neil Campbell, FDEP/TLH  
James Dodson, FDEP/TLH  
Danielle Henry, FDEP, SWD  
Mike Coates, PRMRWSA  
Ryan Messer, ED/CH2M  
Mark McNeal, ASRus  
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## Underground Injection Control Class V, Group 7, Aquifer Storage and Recovery (ASR) Well System Operation Permit Major Modification

December 14, 2016

**Permittee:**

Peace River Regional Water Supply Authority

**Responsible Official:**

Mr. Patrick J. Lehman, P.E., Executive Director  
9415 Town Center Parkway  
Lakewood Ranch, FL 34202

[PLehman@RegionalWater.org](mailto:PLehman@RegionalWater.org)

**Permit/Certification:**

Permit Number: 136595-016-017-UO/M5

WACS ID: 40593

Date of Issuance: December 14, 2016

Date of Expiration: April 23, 2018

Permit Processor: Neil I. Campbell

**Section/Township/Range** S16 / T39S / R23E

**Facility:**

Peace River Water Treatment Plant  
8998 Southwest County Road 769  
Arcadia, Florida 34269

**Location:**

County: DeSoto

Latitude: 27° 05' 06" N

Longitude: 82° 01' 08" W

**RE:** Major Modification to FDEP Permit 136595-016-017-UO/M5 under 136595-016-017-UO/M5 to allow cycle tests of aquifer storage and recovery (ASR) wells S-4 and S-20 at wellfield No. 2.

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and the rules adopted thereunder. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows.

To modify a non-hazardous Class V injection well operation permit to allow cycle tests of aquifer storage and recovery (ASR) wells S-4 and S-20 at wellfield No. 2. ASR wells S-4 and S-20 will receive partially treated surface water. Recharge of the remaining nineteen ASR wells with potable water from the Peace River Water Treatment Plant (WTP), 8998 SW County Road 769, Arcadia, DeSoto County will continue at Wellfields No. 1 & 2. ASR wells S-4 and S-20 will be recharged with 2 to 4 million gallons per day each.

**IN ACCORDANCE WITH:** The Application to Modify the current Operating Permit DEP Form No. 62-528.900(1) received, August 16, 2016, response to the Department's request for

**PERMITTEE:** Mr. Patrick Lehman, Executive Director  
Peace River Water Treatment Plant  
Class V, ASR Injection Well System

**Facility ID No.:** 40593  
**Permit ID No.:** 136595-016-017-UO/M5  
**Date:** December 14, 2016

additional information, received September 8, 2016, and supporting information submitted to this agency.

**LOCATION:** Peace River Water Treatment Plant, 8998 Southwest County Road 769, Arcadia, Florida 34269, in the county of Desoto.

Based on the information provided to the Department, per the request of the Peace River Regional Water Supply Authority, the Department hereby approves the above major modification to FDEP Permit Number **136595-014-UO/5Q** under FDEP Permit Modification Number 136595-016-017-UO/M5. Testing of partially treated surface water (PTSW) as a source water for storage in two of ASR Wellfield No. 2 (WF2) wells, S-20 and S-4, may begin upon receipt of this modification. The permit's operational specific conditions I. through III. are changed as specified below:

**Page 3** – Adds the Avon Park Monitor well, AP-1, 12-inch casing set to 1300 feet below land surface (bls), open hole to 1479 feet bls.

**Conditions I. Operating Requirements:**

- A.1 Injection of fluids other than those permitted into the ASR well will constitute a violation of this permit and shall constitute cause for permit revocation and possible enforcement action for water quality violation. Only water from the Peace River Regional Water Supply Facility, a surface water drinking water facility, may be injected, except that partially treated surface water from Reservoir No. 1 may be injected into ASR wells S-4 and S-20.
- A.7 This ASR facility shall be operated in conformance with the criteria contained in Water Quality Criteria Exemption OGC File 12-1502. This permit modification removes ASR wells S-4 and S-20 from the Exemption in order to cycle test those wells with partially treated surface water. All other provisions of the Exemption remain unchanged.
- A.8 **NEW: Zone of Discharge**
  - a. A zone of discharge under Rule 62-520.465(2)(b), F.A.C, is established for this injection project for the parameters of total coliform bacteria, aluminum, and color. The zone of discharge extends to the permittee's property boundary. [62-520.465(2)(b)]
  - b. Compliance with the zone of discharge shall be demonstrated at monitor well M-18; total coliform bacteria, aluminum, and color must be met at this compliance well. If the concentration for any standard in the natural background quality is greater than that which is listed in Rule 62-520.420(1), F.A.C., or in the case of pH is also less than the minimum, the representative natural background quality shall be the prevailing standard. [62-520.420, 62-520.600]
  - c. Should ground water monitoring during operation indicate drinking water parameters are not met at compliance well M-18, the permittee shall, upon the Department's request, submit a report addressing the results of the collected ground

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**Date:** December 14, 2016

water monitoring data. The report shall be submitted to the Department no later than 90 days after the request and shall include a discussion of the changes in water quality for parameters exceeding maximum contaminant levels. The report shall also address the adequacy of the zone of discharge and the steps to be taken to come into compliance. [62-520.700, 62-528.610(1)]

### **Conditions III. Testing and Reporting Requirements**

- A.3 NEW:** Cycle testing of ASR-4 and ASR-20 shall be in accordance with the schedule specified below:

<b>Cycle</b>	<b>Recharge Rate (MGD)</b>	<b>Storage Duration (Days)</b>	<b>Recovery Rate (MGD)</b>	<b>Volume in Storage (MG)</b>
1	2-4	15	1.5-2.5	50
2	2-4	15	1.5-2.5	100
3	2-4	15	1.5-2.5	150

Additional or fewer cycles, or changes in the cycle testing details above, may be authorized in writing by the Department.

[62-528.450(3)(a)]

- B.5 NEW:** Table 3 of the permittee's September 8, 2016 response to a Request for Additional Information is incorporated into this permit modification. It contains monitoring and sampling requirements specific to the cycle testing, and is reproduced as an attachment at the end of this modification. [62-528.307(3)(d) and 528.430(2)]
- B.6 NEW:** Monitoring well AP-1 shall be sampled semiannually for static pressure or water level, chloride, total dissolved solids, and field pH, specific conductance, and temperature (°C). [62-528.307(2)(d) and 528.430(2)]

This document must be attached to your permit and becomes a part of that permit. All conditions of Permit no. 0136595-014-UO/5Q not specifically modified or deleted in this document remain in effect.

**Table 3. Proposed Monitoring Plan**  
**Peace River WF2 PTSW ASR Pilot Testing**

Parameter	Units	Recording Frequency	Frequency of Analysis			
			Recharge (reservoir)	Recovery (S-4, S-20)	M-11, M-14, M-16, M-17, M-18, T-11	M-8, M-13, T-8
Flow Rate, max.	gpm	daily	D/M	D/M		
Flow Rate, min.	gpm	daily	D/M	D/M		
Flow Rate, avg.	gpm	daily	D/M	D/M		
Total Volume Recharged	Mg	daily	D/M			
Total Volume Recovered	Mg	daily		D/M		
Injection Pressure, max.	Psi	continuous	D/M			
Injection Pressure, min.	Psi	continuous	D/M			
Injection Pressure, avg.	Psi	continuous	D/M			
Water Level, max.	feet (NGVD)	continuous		D/M	D/M	D/M
Water Level, avg.	feet (NGVD)	continuous		D/M	D/M	D/M
Water Level, min.	feet (NGVD)	continuous		D/M	D/M	D/M
pH +	std. Units		W <sup>a</sup>	W <sup>b</sup>	W	M
Specific Conductivity +	µmhos/cm		W <sup>a</sup>	W <sup>b</sup>	W	M
Temperature +	°C		W <sup>a</sup>	W <sup>b</sup>	W	M
Dissolved Oxygen +	mg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
Turbidity +	NTU		W <sup>a</sup>	W <sup>b</sup>	W	M
Oxidation-Reduction Potential +	mV		W <sup>a</sup>	W <sup>b</sup>	W	M
Total Dissolved Solids	mg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
Chloride	mg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
Sulfate	mg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
Arsenic	µg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
Total Suspended Solids	mg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
Nitrate (as N)	mg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
TKN	mg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
Ammonia	mg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
TOC	mg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
Color	Units		W <sup>a</sup>	W <sup>b</sup>	W	M
Aluminum	µg/L		W <sup>a</sup>	W <sup>b</sup>	W	M
Total Coliform	CFU/100 mL		W <sup>a</sup>	W <sup>b</sup>	W	M
Escherichia coli	CFU/100 mL		W <sup>a</sup>	W <sup>b</sup>	W	M
Primary and Secondary stds.	mg/L		B		-	-

**Notes:**

No sampling of ASR wells during storage

W - weekly; D/M - daily and monthly;

a - during recharge only

b - during recovery only

+ - field samples

B - Background sample prior to cycle 1 recharge