

FACT SHEET

Canaveral Port Authority (CPA) Aquifer Storage and Recovery well (ASR)
Permit No.05-0200428-001-UC
January 26, 2005

A construction permit is requested for a Class V Group 3 Exploratory well to evaluate the potential for ASR at this facility. The CPA is located at Latitude/Longitude: 28°24'22.4" North, 80°37'5.8" West. The permit is requested by the CPA.

1. General Information

A. Statutory Basis for Requiring/Issuing Permit

The Department has permitting jurisdiction under Chapter 403 Florida Statutes (F.S.), and 62-4 and 62-528, Florida Administrative Code (F.A.C.). The project is not exempt from permitting procedures. The Department has determined that a construction permit is required.

B. Name and Address of Applicant

Mr. J. Stanley Payne
Canaveral Port Authority
200 George King Boulevard
Cape Canaveral, Florida 32920

C. Description of Applicant's Proposed Operation

To construct one Class V Group 3 ASR injection well for the purpose of cycle testing the ASR capabilities. The newly constructed ASR well be initially used for potable water injection and retrieval for duration of one year. Upon successful completion of potable water testing, the 6-inch diameter ASR well shall be tested in the surficial aquifer for the storage and recovery of reclaimed water produced at the CPA Water Reclamation Facility. A successful ASR project would supply non-potable water for irrigation during dry periods, and store water that would otherwise be discharged to the Banana River (1.8 MGD) during the wet season. The ASR well will be constructed with a 6-inch Schedule 40 PVC casing set to 35 feet below land surface (bls), and a screen section of the well extending to total depth of 60 feet (bls).

D. Permitting History of this Facility

This facility has no previous FDEP UIC permits.

E. Documents Used in Permitting Decision

1. "Canaveral Port Authority Application to Construct a Class V Injection Well," Hartman and Associates, Inc., June 2002.
2. Revised Permit Application, "Canaveral Port Authority - Class V ASR Injection Well," Hartman and Associates, Inc., December 31, 2003.
3. CPA Response to Request for Additional Information, Hartman and Associates, Inc., June 22, 2004. Associated Response from the applicant to Requests for Additional

Information includes: June 28, 2004; August 10, 2004; August 18, 2004; September 30, 2004; October 28, 2004.

2. Reasons Permit was Issued; Derivation of Conditions

A. Mechanical Integrity Demonstration

Not required by Chapter 62-528, F.A.C., for Class V wells. However, if warranted in the future, the Department will request the Mechanical Integrity Testing.

B. Confinement (Rule 62-528.405(2), F.A.C.)

Three well bores; SB-2, SB-3 and SB-4 were included in the initial assessment for sediment composition at the proposed ASR site. The lithology at this site consists of Holocene sediments and Pleistocene “Beach ridges and dunes” of the Florida Geological Survey Map Series #146. SB-3 is located in the vicinity nearest the proposed ASR location. The clay unit that may provide confinement is located from 5 to 10 feet bls. Another clay unit was indicated from 40 to 90 feet bls. See Document 1, Appendix B for details.

C. Injection Zone (Rule 62-528.405(3), F.A.C.)

The storage zone in this region consists of unconsolidated sand, silt, and clay that are interlayered with intermittent clay lenses to total depth of the boreholes. See Document 1 for details.

D. Underground Source of Drinking Water (Rule 62-528.605, F.A.C.)

The Underground Source of Drinking Water (USDW), which contains water with total dissolved solids (TDS) less than 10,000 mg/L, has been documented at numerous UIC Class I facilities in Brevard County, and the USDW can extend to depths greater than 1000 feet bls. This project will take place entirely within the USDW. The drilling activities that will be conducted at this site will attain depths of less than 125 feet bls.

E. Well Construction:

ASR Test Well

6" Schedule 40 PVC casing, set to 35' bls

6" stainless steel screen, set to 60' bls

See Document 2, Figure 2 for details.

F. Monitor Plan (Rule 62-528.615, F.A.C.)

The current monitoring system consists of two 4-inch monitor wells (PW-3, PW-4) and four 2-inch shallow monitor wells (MW10-13). Six additional monitor wells (MWSZ-1-5, MWFL-1) will be constructed as part of this permit. The parameters to be monitored and their monitoring frequency during ASR activities are included in the table in Specific Condition 6.d. of the Draft Permit.

G. Financial Responsibility

Not required under Rule 62-528, F.A.C., for Class V wells

3. Agency Action

The UIC Program staff recommends approval of the construction permit.

4. Public Rights (Rules 62-528.310, .315, and .326, F.A.C.)

The Department will accept public comment concerning this proposed permit action for a minimum of 30 days following publication of the Notice of Draft Permit. A public meeting will be held in the area of the injection project no less than 30 days after publication of this Notice for the purpose of receiving verbal and written comment concerning this project. Comments received within the 30-day period and during the public meeting will be considered by the Department in formulating a final decision concerning this project. The public meeting was held on May 9, 2005 at 2:00 PM at 200 George J. King Boulevard, Port Canaveral, Brevard County, Florida 32920.

After the conclusion of the public comment period and public meeting described above the Department considered all comments received during the public comment period in making a final decision concerning this permit action. The Department has made a decision concerning the final permit and the applicant will publish notice of the proposed agency action. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing). Accordingly, the Department's final action may be different from the position taken by it in the Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified in the Notice and be filed (received) within 14 days of publication of this Notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

The application and draft permit are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at Department of Environmental Protection, Central District Office, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767. Please contact Duane Watroba at (407) 894-7555 for additional information concerning this project.

5. Agency Contact

Duane Watroba, Technical Advisory Committee
Florida Department of Environmental Protection
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767
(407) 894-7555