



## INDIAN RIVER COUNTY, FLORIDA DEPARTMENT OF UTILITY SERVICES

---

**Date:** February 27, 2017

**To:** Jason E. Brown, County Administrator

**From:** Vincent Burke, P.E., Director of Utility Services

**Prepared By:** Arjuna Weragoda, P.E., Capital Projects Manager

**Subject:** Emergency Purchase Order for Cell 14 Maintenance Work at West Regional Wastewater Treatment Facility Wetland Treatment System

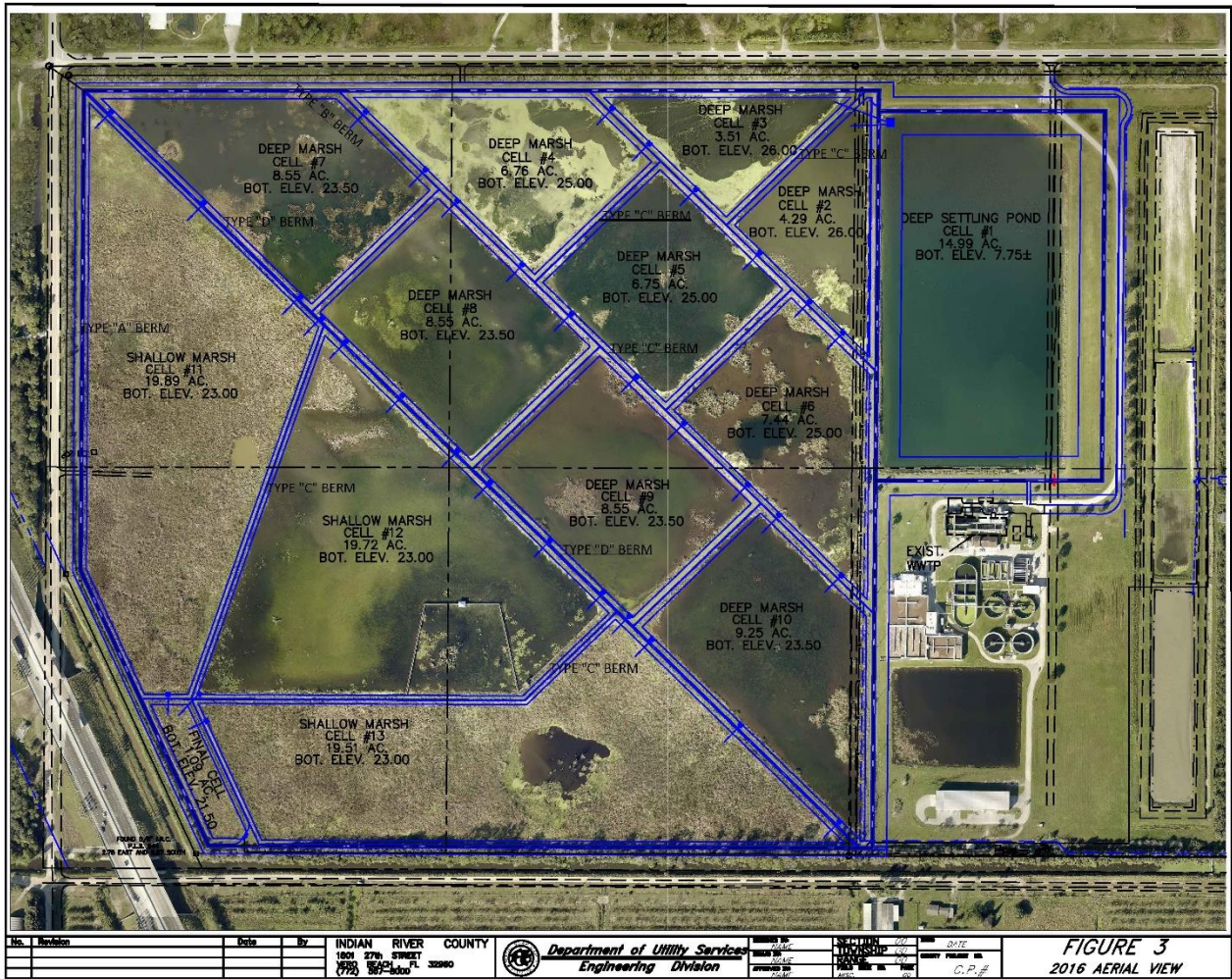
---

### DESCRIPTIONS AND CONDITIONS:

Indian River County Department of Utility Services (IRCDUS) operates the West Regional Wastewater Treatment Facility (WWTF) located on 8<sup>th</sup> Street, west of 82<sup>nd</sup> Avenue. The plant is currently permitted for 6.0 million gallons per day (MGD). The current IRCDUS West Regional WWTF has a 4.0 MGD annual average daily flow (AADF) discharge from the created wetland to the Lateral D Canal, Class III fresh waters. The West Regional WWTF, Permit No. FL0041637, was renewed April 12, 2016 with an expiration date of April 11, 2021.

### ANALYSIS:

The Wetland Treatment System (WTS) contains approximately 169 acres (135 wetted acres). Initially treated WRWWTF effluent enters the WTS via an 11.38 acre polishing pond. From the polishing pond, the water is split between two deep water marshes, 3.51 and 4.29 acres respectively. From these cells, water is split again into three subsequent deep water marshes of 6.76, 6.75, and 7.44 acres, respectively. Next, the water is further split into four additional subsequent deep water marshes of 8.55, 8.55, 8.55, and 9.25 acres, respectively. After these deep water marshes the water converges into three shallow water marshes of 19.89, 19.72, and 19.51 acres, respectively. The final cell (Cell 14) prior to discharge is a 1.09 acre storage pond with a control structure equipped with a manually operable weir (WEP-1), discharge pipe, flow meter, and automatic sampling equipment. Cell 14 is currently inundated with dead cattails. The cattail leaf litter (or dead stand crop) and associated bacteria/periphyton communities are most likely having a significant negative effect on the water quality conditions in Cell 14. Therefore, the Department’s wetlands consultant, Ecotech, has recommended that the county hire a contractor to remove the dead cattails with +/- 1.0 to 1.5-feet of sediment through mechanical methods. Once the sediment is removed, the consultant’s goal is to hydrate Cell 14 to approximately a 3-foot depth with submerged aquatic vegetation.



The intention is to have the subject maintenance performed during dry conditions and cooler temperatures.

Staff requested price proposals from four contractors. Due to the unique and complex nature of the project, two out of the four submitted a price proposal that did not include what staff and the consultant was considering. Therefore, the lowest, responsive, responsible proposal was submitted by Timothy Rose Contracting, Inc., for a lump sum amount of \$73,700.00.

**FUNDING:**

Funding for the Cell 14 maintenance at West Regional Wastewater Treatment Facility is available in the R&R account within the Utilities Operating Fund. Operating funds are derived from water and sewer sales.

Description	Account Number	Amount
West WWTF Cattail Removal	47123536-044699-17514	\$73,700.00

**RECOMMENDATION:**

Staff recommends the Board of County Commissioners (BCC) waive the bidding process in the essence of time and approve the attached proposal authorizing the above-mentioned services, and requests the BCC direct the Purchasing Manager to issue a Purchase Order for a lump sum amount of \$73,700.00 to Timothy Rose Contracting, Inc.

**ATTACHMENT(s):**

Proposal from Tim Rose Contracting, Inc.