



## INDIAN RIVER COUNTY, FLORIDA DEPARTMENT OF UTILITY SERVICES

---

**Date:** March 12, 2018  
**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:** Waive the Bid Process for Holding Tank Restoration at the Residuals Dewatering Facility - UCP 4138

---

### DESCRIPTIONS AND CONDITIONS:

On October 24, 2017, the Indian River County Purchasing Department issued Purchase Order No. 79800 to Schulke, Bittle and Stoddard, LLC, (SBS) to provide professional services for assessment, bidding, and construction phase services for the structural rehabilitation of the Residual Dewatering Facility (Biosolids) holding tanks located at the Indian River County Landfill.

The structural rehabilitation is necessary due to the existing deteriorated condition of the concrete holding tanks. The coating system has failed, and the hydrogen sulfide/sulfuric acid that is encountered in wastewater treatment has degraded the concrete. If the corrosion is left unaddressed, the structural integrity of the holding tanks may be compromised.



Figure 1 - When the tank was initially constructed in 2010



Figure 2 - Concrete spalling in the tank now.

SBS completed the design and specifications in January 2018. The assessment evaluation found that the work will be limited to cleaning the tank interior, hydro blasting, and the application of the SpectraShield lining.

**ANALYSIS:**

SBS has evaluated in detail the structural integrity of the tanks and found that, in order to minimize further deterioration, the tanks need immediate attention. In order to keep the Residual Dewatering Facility running efficiently, the corrective actions on the three (3) tanks are critical. Therefore, the best solution is to have all three (3) tanks lined with the SpectraShield system per the Engineer of Record (see attached letter). The subject lining system was utilized at the South and Central Wastewater Treatment Plant headworks restoration projects with high success. The facility will remain in operation whilst the three (3) holding tanks are restored. Its estimated that one (1) tank will be restored per month.



Figure 2- Before SpectraShield Liner System was installed at Central WWTP



Figure 1-After SpectraShield Liner System was installed at Central WWTP

**FUNDING:**

Funding for the holding tanks restoration is available in the renewal and replacement account within the Utilities Operating Fund. Operating funds are derived from water and sewer sales.

Description	Account Number	Amount
Holding Tank Restoration at Bio Solids	47123536-044699-17537	\$249,700.00

**RECOMMENDATION:**

Staff recommends the Board of County Commissioners waive the Bid Process and authorize the Purchasing Division to issue a purchase order to Concrete Conservation, Inc., in the amount of \$249,700.00 for the restoration of all three (3) tanks at the Residuals Dewatering Facility.

**ATTACHMENT(s):**

Letter from SBS