



**INDIAN RIVER COUNTY**  
**SOLID WASTE DISPOSAL DISTRICT**  
**BOARD MEMORANDUM**



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Date: January 3, 2017  
To: Jason E. Brown, County Administrator  
Thru: Vincent Burke, Director of Utility Services  
From: Himanshu H. Mehta, P.E., Managing Director, Solid Waste Disposal District  
Subject: **Amendment No. 2 to Work Order CCNA-2014 WO No. 4 to Geosyntec for Implementation of the Remedial Action Modification Plan at the Former South Gifford Road Landfill**

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**DESCRIPTIONS AND CONDITIONS:**

In accordance with the requirements by the Florida Department of Environmental Protection (FDEP), the former South Gifford Road Landfill site requires continual groundwater monitoring activities and required regulatory oversight to show that the county and SWDD are proactively taking efforts to remediate the site.

On March 1, 2016, the Solid Waste Disposal District (SWDD) Board issued CCNA-2014 Work Order No. 4 in the amount of \$88,674 to Geosyntec to provide groundwater monitoring and reporting for an additional one-year period, Remedial Action Plan Modification (RAPM) Addendum preparation, and annual pollution remediation liabilities evaluation. Under this work order, Geosyntec prepared the RAPM Addendum to recommend additional injection activities to enhance bioremediation of the chlorinated solvent impacts to groundwater in a focused area of the Site. FDEP approved the RAPM on July 15, 2016 and issued a Remedial Order requiring implementation of the plan which included performing a limited pre-injection groundwater investigation event. Amendment No. 1 to Work Order No. 4 in the amount of \$29,980 was approved by the Board on September 20, 2016 to complete the pre-RAPM investigation and optimize the bioremediation design. These activities were completed to collect data to refine the location for the proposed injection activities to allow for design of the most cost-effective approach. Geosyntec completed the pre-RAPM investigation and finalized the bioremediation design. Previous sampling, reporting, and remedial events performed by Geosyntec have been completed on schedule and within budget.

Accordingly, to complete the activities authorized by the Board on March 1, 2016, staff requested the attached Amendment No. 2 to Work Order No. 4 from Geosyntec to implement the FDEP-required RAPM bioremediation activities.

**ANALYSIS:**

In comparing the original design to the optimized design, Geosyntec was able to reduce the size of the treatment area from over 5,000 square feet to 1,500 square feet (reduction of treatment area of approximately 70%), directly reducing the volume of bioremediation injection locations required and assuring the injected material is placed at the locations/depth where it is needed (in lieu of simply treating the overall area). While the work had to be done in a phased approach, the reduction in the treatment area/volume resulting from the initial pre-RAPM investigation findings resulted in an injection work savings of approximately \$106,000 (net savings of approximately \$76,000 when adjusting for the cost of the pre-RAPM investigation prior to finalizing the design).

Staff supports Geosyntec's proposal for RAPM implementation activities for a total budget request of \$53,448.

**FUNDING:**

Funding for this work is budgeted and available in account number 31521734-033490-03004, which is the one cent sales tax fund used for infrastructure needs of the county. Costs associated with the landfills are authorized uses of the one cent sales tax in addition to infrastructure.

Description	Account Number	Amount
One Cent Sales Tax Fund – Infrastructure Needs	31521734-033490-03004	\$53,448

**RECOMMENDATION:**

Staff recommends that the SWDD Board approves and authorizes the Chairman to sign the attached Amendment No. 2 to CCNA-2014 WO No. 4 authorizing Geosyntec to implement the RAPM bioremediation activities required by FDEP for a not-to-exceed fee of \$53,448.

**ATTACHMENTS:**

1. Amendment No. 2 to CCNA-2014 Work Order No. 4 to Geosyntec