

# **Board of County Commissioners**

## **Agenda Request**

Date of Meeting: March 1, 2010

Date Submitted: February 12, 2010

To: Honorable Chairman and Members of the Board

From: Benjamin H. Pingree, County Administrator  
Cleve Fleming, Public Works Director

Subject: Request Board Approval of Task Order No. 13 to Jones Edmunds for the 2010 Long-Term Care Plan and Natural Attenuation Monitoring-Only Plan for Groundwater and Landfill Gas Monitoring at the Medart Closed Landfill

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### **Statement of Issue:**

This agenda item requests Board approval of Task Order No. 13 to Jones Edmunds for the 2010 Long-Term Care Plan and Natural Attenuation Monitoring-Only Plan for Groundwater and Landfill Gas Monitoring at the Medart Closed Landfill.

### **Background:**

The Medart Landfill is regulated under the Florida Department of Environmental Protection (FDEP) Long-Term Care Plan approved on June 16, 1991 and the FDEP Natural Attenuation Monitoring-Only Plan Approval Order dated April 26, 2001. The FDEP Long-Term Care Plan outlines the maintenance and monitoring of the landfill over the 30 year post closure period. The FDEP Natural Attenuation Monitoring-Only Plan was issued in response to the 2000 Contamination Assessment Report which showed elevated concentrations of Arsenic, Iron, Ammonia-Nitrogen, Benzene, and Vinyl Chloride in site groundwater wells. These two plans outline the FDEP required monitoring of the site groundwater and landfill gas.

The FDEP Natural Attenuation Monitoring-Only Plan requires the submittal of an annual report. The annual report summarizes and interprets the groundwater analytical data collected over the past year. The 2010 Natural Attenuation Monitoring-Only Plan is due to the FDEP by November 30, 2010.

The specific monitoring tasks required to be conducted this year at the Medart Closed Landfill covered under Task Order No. 13 are outlined below:

### **Conduct Two Semiannual Groundwater Sampling and Reporting Events:**

- Sample eight monitoring wells—4 detection wells, 1 background well, and 3 assessment wells—semiannually as outlined in the Long-Term Care Plan, the Natural Attenuation Approval Order, and FDEP correspondence dated July 16, 2007.

Background Well: MW-6  
Detection Wells: MW-7, MW-8, MW-9, MW-10  
Assessment Wells: MW-11, MW-12, TW-5

- Analyze the samples for the parameters outlined in the Natural attenuation Approval Order and the Long-Term Care Plan.
- Measure depth-to-water in a continuous-round in the monitoring wells before sampling activities. The depth-to-water measurements will be used to prepare groundwater potentiometric surface maps.
- Prepare semiannual compliance reports. The reports will include a summary letter, authorized signature pages, a groundwater contour map, analytical data summary tables, field data sheets, Parameter Monitoring Report forms, and the laboratory analytical report.
- Submit the semiannual reports to FDEP. Two hardcopies of each report will be provided to the County. Two hardcopies of each report will be submitted to FDEP. All data will be submitted to FDEP in EDD format compatible with ADaPT via email.
- Prepare and submit to FDEP the Annual Report that summarizes the groundwater analytical data collected for the First and Second Semiannual 2010 monitoring events. This report is required in the Natural Attenuation Monitoring Only Plan Approval Order.

**Conduct Four Quarterly Landfill Gas Monitoring and Reporting Events:**

- Measure landfill gas (LFG) concentration quarterly as percent of the lower explosive limit of Methane in seven monitoring locations.

LFG Probes: GML-1, GML-2, GML-3, GML-4  
LFG Monitoring Wells: GMW-5A, GMW-6A  
Building: B-1

- Submit the quarterly reports to FDEP. One hardcopy of each report will be provided to the County.

**Analysis:**

The County is required by the FDEP permit to monitor groundwater as part of the long term care program for closed landfills. In addition, this groundwater monitoring is an indicator of any issues with contaminants leaching out of the landfill cells into the aquifer. If a leaching problem is detected early, remedial action plans can be implemented to prevent the polluting of the environment. Jones Edmunds has been conducting the compliance monitoring at the Medart Landfill since 1996 and has the expertise to continue this work.

Staff is recommending approval of this task order with a total cost of \$31,340. A detailed scope of work to be performed by Jones Edmunds as well as cost summary for this task

order is attached for your review (Attachment #1). The monitoring program is funded annually out of the Solidwaste fund 440-0100-534-341 over two budget cycles from January 2010 to December 2010.

**Options:**

1. Approve Task Order No.13 to Jones Edmunds for the 2010 Long-Term Care Plan and Natural Attenuation Monitoring-Only Plan for groundwater and landfill gas monitoring at the Medart Closed Landfill.
2. Do not approve Task Order No.13 to Jones Edmunds for the 2010 Long-Term Care Plan and Natural Attenuation Monitoring-Only Plan for groundwater and landfill gas monitoring at the Medart Closed Landfill.
3. Board Direction.

**Recommendation:**

Option #1

**Attachments:**

1. Task Order No. 13, Detailed Scope of Services and Cost Summary.