



**SANTA ROSA COUNTY
ENVIRONMENTAL DEPARTMENT**

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To: Tony Gomillion

From: Ronald Hixson *RH*

Thru: Roger Blaylock, P.E., County Engineer *Rog*

Date: May 3, 2016

Re: Permit Modifications for Central Landfill Class I



DISCUSSION:

The Environmental Department is requesting an increase in the funding of \$17,600.00 to SCS Engineers to complete a permit modification to the Central Landfill Class I Permit. The original SCS Task Order 15-03 was approved for \$53,266.00 to prepare and submit permit modifications for both the Central Landfill Class I and Class III landfills to the Florida Department of Environmental Protection (FDEP) to extend the useful life of both areas. Change Order 1 will increase the total cost to \$70,826.00 for both permit modifications.

BACKGROUND:

The Central Landfill Class I and III have seen a significant increase in material over the last several years that has dramatically decreased the remaining life for both areas. The Environmental Department tasked SCS Engineers to review the operations and permitted foot print to evaluate options to efficiently utilize the remaining permitted footprint. SCS Engineers has developed a revision to the Class I and III landfills operations plan and existing footprint that increased the vertical elevation and side slope grading that will create additional disposal capacity in both areas.

In support of the permit modifications, the Environmental Department conducted additional soil borings and leachate system inspections to provide data requested by the Florida Department of Environmental Protection in support of the requested modifications. Upon completion of the soil borings and leachate system inspections it was determined that completion of the Class I permit modification would require a significantly higher level of effort by SCS Engineers to complete. The Environmental Department directed SCS to complete the Class III permit modification documentation and submit to FDEP, that submittal was completed and transmitted to FDEP on Friday April 29. The Environmental Department is requesting supplementary funding to complete the additional drawings and calculations for submission to the FDEP in support of the Class I permit modification.

ACTIONS TO BE CONSIDERED:

That the Board of County Commissioners approves Change Order I to SCS Engineers Task Order 15-03 in the amount of \$17,600 for a total cost for Task Order 15-03 of \$70,826.00 to complete the Central Landfill Class I Permit Modifications for submission to the Florida Department of Environmental.

**CENTRAL LANDFILL
TASK ORDER 15-03 – CHANGE ORDER 1**

**Intermediate Permit Modification to Provide Sideslope Grading
Plans and Vertical Expansion
Central Landfill Class III Areas
Santa Rosa County, Florida**

In preparation of the documents for the application for the Intermediate Permit Modification, a field condition associated with the leachate collection system was found that will take require additional effort to resolve. This creates a critical path issue with gaining permission to proceed with the permitting of the vertical expansion of the Class III Landfill. To gain acceptance for the Class III area it has been determined that the submittal of the appropriate documentation should proceed on the Class III and the Class I changes will proceed when the leachate issue is resolved. This Change Order 1 to the original task order only addresses the modifications to the documents to submit the Class III for permitting and a meeting with FDEP to discuss potential vertical/horizontal expansion of the Class I area. A task order for the rest of the Class I submittal will be forth coming once the Class III is permitted.

The Class III landfill is filling at an alarming rate. To save time SCS Engineers (SCS) will work with the solid waste staff to modify the documents prepared to-date for the intermediate permit in order to submit the permit application as quickly as feasible.

THIS AMENDED TASK ORDER IS ISSUED PURSUANT TO THE STANDARD MASTER AGREEMENT FOR PROFESSIONAL SERVICES DATED AUGUST 8, 2011 (AGREEMENT) AS AMENDED JULY 10, 2014, BETWEEN THE SANTA ROSA COUNTY BOARD OF COUNTY COMMISSIONERS AND SCS ENGINEERING, INC. WHICH IS INCORPORATED HEREIN BY THIS REFERENCE, WITH RESPECT TO CLASS I CENTRAL LANDFILL.

UNDERSTANDING OF THE PROJECT

SCS is basing this proposal on discussions with FDEP and County Solid Waste staff concerning those details within the operation drawings currently permitted that defines the extent to which the Class III landfill can achieve its current design elevation. This effort to design a new grading plan that will provide for higher final elevations that provide additional capacity for waste placement on the same footprint of the current disposal area.

SCOPE OF SERVICES

SCS, in conjunction with the County, will perform the following scope of services as discussed below.

Task 1 - Review Documents and Conduct Meetings

SCS will review the existing operation permit and relevant documents previously submitted to FDEP as requested below to begin the project. SCS will conduct a teleconference meeting with

the County to kick off the project to confirm the lines of communication, address coordination issues, open dialog regarding project activities, confirm project goals and objectives, and concur with the program to complete the necessary changes to maximize the disposal capacity of the Class III area and submit for a separate modification to the existing permit.

The Class III landfill is not a lined facility but the vertical expansion will be designed within the footprint of the existing disposal area. It is assumed the location of the footprint of the disposal area is appropriately shown on the existing documents. While it may not be needed, the permit application will request authority to fill over the existing asbestos disposal area.

To prepare for the Class I submittal for the vertical and horizontal expansion, a meeting with the FDEP is suggested prior to continuing the application for the expansion of that area. At that meeting the information currently available on the ability to piggy-back on the existing waste will be reviewed and discussed with the intent to gain a commitment from the agency to allow the expansion vertically and horizontally. Depending on the outcome of that meeting a follow-up task order will be necessary to finalize the application.

Task 2 - Develop Sideslope Grading and Vertical Expansion Design Drawings

The sideslope grading drawings for the project area will be based on the operation drawings dated October 2012 in conjunction with the latest aerial topographic survey. These operation drawings will show the proposed final contours and conceptual closure cap for the final buildout configuration. The operation drawings will be modified within the project area to include sufficient detailed design for sideslope grading purposes. The sideslope grading drawings will include:

- Final grades at a 3(H): 1(V) slope representing the top of the final cover system.
- Final terrace locations and elevations representing the top of the final cover system.

The documents will be based on the current plans prepared by SCS.

Task 3 - Slope Stability Analysis

Per 62-701.400(2), Florida Administrative Code (FAC) the final cover design shall include an evaluation of the stability and shall be designed to meet a factor of safety criteria of 1.5 using peak strength values. This evaluation has been completed and will be incorporated into the application for the Vertical Expansion and slope grade increase for maximizing the available capacity of the disposal area.

Task 4 - Preparation of the Application for Intermediate Permit Modification for the Class III Landfill

Following the completion of the above tasks, SCS will prepare the permit application for submittal to FDEP. Only those items that apply to a modification will be addressed directly. All others will be noted as N/C (no change) or N/A (not applicable). Items to be included will be

slope stability, pipe crushing, settlement, and stormwater management. In association with the application an engineering report and drawings demonstrating the new plan will be prepared.

Task 5 - Respond to Request for Additional Information

Funds for responses to requests for additional information (RAIs) from FDEP on the sideslope grading plans and vertical expansion are not included in this proposal. Should an RAI be sent to the County, SCS will review the level of effort required to respond and will provide an estimate of the work to be done and will prepare a contract change order for that fee. After addressing comments received from the State and County, SCS will submit two hard copies signed and sealed by a professional engineer licensed in Florida and one electronic version (Adobe Acrobat) to FDEP and the County.

ASSUMPTIONS

This scope of services and fee estimate are based on the following assumptions:

- The County will provide the tonnages of waste disposed of in the Class III areas along with the volume and type of cover material being applied daily.
- No additional permit applications, field investigations, or submittals to DEP beyond those described above have been included.
- The County will pay all permit application fees.
- A follow up proposal will be prepared to address the permitting issues associated with the Class I area modifications to maximize the disposal capacity of that component of the landfill.

DOCUMENTS REQUESTED

SCS assumes the following documents will utilize the documents already provided by the County, but in case additional information is required SCS will request in writing the need for the additional County provided data:

- Geotechnical subsurface investigation reports for the project area.
- As-built survey information for the bottom liner system within the project area.
- Engineering Reports and supplementary information including figures, tables, and attachments previously submitted to DEP for the construction/operation permit applications for the cells within the project area.

SCHEDULE

Upon issuance of this task order, SCS will initiate the work immediately and will endeavor to provide the review documents as soon as possible.

FEE (SCS will perform the scope of services for Change Order 1 on a lump sum basis)	Change Order 1 \$17,600.00 Original Task Order <u>\$53,226.00</u> Total \$70,826.00
PERIOD OF SERVICE	
AUTHORIZATION TO PROCEED	
TERMINATION OF TASK ORDER	
AUTHORIZED REPRESENTATIVES	
For Santa Rosa County	For SCS Engineers
Signature	Signature <i>C. Ed Hilton Jr</i>
Printed Name:	Printed Name: C. Ed Hilton, Jr. P.E.
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ATTEST:	