SANTA ROSA COUNTY ENGINEERING
ENVIRONMENTAL DEPARTMENT
6065 Old Bagdad Highway
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Roger A. Blaylock, P.E.
County Engineer

Ronald C. Hixson
Environmental Manager

To: **Tony Gomillion**

From: **Ronald Hixson** RCH

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

Date: **February 17, 2016**

Re: **CQA Services for Central Landfill Cell C Construction and Certification**

DISCUSSION:

The Environmental Department is requesting an increase to Phase IV, Cell C Construction Quality Assurance (CQA) Services with Geosyntec Consultants, Task Order #GEO15-04 in the amount of $56,426 to cover additional QA/QC services related to cell construction and certification. Original cost of the Task Order was $202,814. This request will increase the total cost to $259,240 for Geosyntec to continue the Construction Quality Assurance Services to completion of the Phase IV Cell C construction and submit the certification report to the Florida Department of Environmental Protection (FDEP).

BACKGROUND:

The Board of County Commissioners approved a Task Order with Geosyntec Consultants on November 19, 2015 to provide QA/QC services during construction of a new Class I disposal cell at Central Landfill. Additional funding is requested for the following:

- An additional 5 weeks of engineering support in the analysis and review of submittals and laboratory testing documentation required for submission to FDEP for cell certification and to ensure work is completed in with the project design and Technical Specifications and the CQA Plan, $8,439;
- Additional CQA field monitoring services for construction activities including labor and expenses thru March 18 for the CQA Field Manager, $40,974, and;
- Includes additional budget for conformance laboratory testing of soil and geosynthetics utilized in cell construction including resin lots used in the manufacture of liner materials and associated destructive testing, leachate compatibility testing due to variability of GCL and additional soil testing due to visual variability of backfill soils, $7,013.

ACTIONS TO BE CONSIDERED:

That the Board of County Commissioners approves an increase in the amount of $56,426 to Geosyntec Consultants for Task Order GEO 15-04 to provide CQA Services related to the Central Landfill Cell C Construction and Certification.

Geosyntec consultants

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16 February 2016

Mr. Ron Hixson
Environmental Manager
Santa Rosa County Environmental Division
6065 Old Bagdad Highway
Milton, Florida 32583

Subject: Cell C Construction Quality Assurance (CQA) Budget Addendum
Santa Rosa County Central Landfill, Phase IV, Cell C
Santa Rosa County, Florida

Dear Mr. Hixson:

Geosyntec Consultants (Geosyntec) is providing Santa Rosa County Environmental Division (SRCED) with this budget addendum (Addendum) for professional CQA services associated with construction of Phase IV, Cell C at the Central Landfill facility (Site) located in Milton, Florida. This Addendum was prepared to outline the CQA services associated with construction activities beyond the 12 week project duration approved under the 1 September 2015, *Proposal for Cell Construction CQA Services* (Proposal). This document has been prepared at the request of SRCED, as an addendum to the approved CQA Services Task Order No. GEO15-04.

SCOPE OF WORK AND BUDGET

The scope of services under this Addendum for the Cell C construction CQA project is divided into the following three tasks:

- Task 1: Project Coordination and Meetings (Engineering/Project Support);
- Task 2: CQA Services; and
- Task 3: Laboratory Testing.

A summary of services and associated budget estimate for each Task is provided below.

Table 1 – Budget Addendum Cost Estimate

Task No.	Description	Estimated Cost
Task 1: Project Coordination and Meetings (Engineering/ Project Support)	Includes overall project coordination, communications with Santa Rosa County, the Contractor, and CQA personnel to facilitate construction activities, and continued review of submittal and laboratory testing documentation to ensure that the work is completed in conformance with the project Drawings, the Technical Specifications and the CQA Plan. The original proposal budget included effort for a duration of 12 weeks (through 12 February 2016). The additional budget covers costs for an additional 5 weeks of effort through 18 March 2016.	$ 8,439
Task 2: CQA Services	Includes labor and expense effort for personnel to provide field CQA monitoring services during construction activities as required by the CQA Plan. The original proposal budget included effort for a duration of 12 weeks (through 12 February 2016) for a Site CQA Manager. The additional budget covers costs for an additional 5 weeks of effort for a Site CQA Manager through 18 March 182016.	$ 40,974
Task 3: Laboratory Testing	Includes additional budget for conformance laboratory testing of soil and geosynthetics for the Cell C construction. Tests performed are required by the Technical Specification and the CQA Plan to facilitate the certification of the Cell C construction. Tests included under this budget Addendum were not included in the original project Proposal. Additional tests were required due to unforeseen conditions such as (i) additional geosynthetic resin lots as defined by ASTM D 4354, (ii) additional destructive test analyses due to required field repairs of the secondary geomembrane, (iii) leachate compatibility testing due to variability of GCL product compared to product utilized in previous Site cell construction, and (iv) additional soil testing due to visual variability of backfill soils.	$ 7,013
	Total	**$ 56,426**

Additions or changes to the scope of services and/or construction schedule may increase or reduce the estimates of labor and material expenditures presented in this Addendum. Should changes in the construction schedule require additional man-hours and associated expenses, Geosyntec will notify SRCED to discuss the circumstances and estimate additional expenditures. Both SRCED and Geosyntec must agree to the changes to the scope of services prior to commencement of the service. The cost of any such service will be calculated based on the unit rates utilized to calculate the estimated costs presented in **Table 1** of this Addendum.

Billing will be in accordance with the Master Consulting Agreement on a time and materials not-to-exceed basis. Our estimated budget for performing these services includes the labor and materials believed necessary to complete the work scope outlined in this Addendum and the Proposal. Authorization of out-of-scope work items that may be needed to fulfill the project requirements or as otherwise requested by the SRCED will be requested as they are identified and billed on a time and materials basis in accordance with Geosyntec's approved contract with the SRCED.

CLOSURE

Geosyntec greatly appreciates the opportunity to provide continued professional services to SRCED under this Addendum. We look forward to discussing the contents of this Addendum with you. If you have any questions, please do not hesitate to contact either of the undersigned at (813) 558-0990.

Sincerely,

Alex Rivera, P.E.
CQA Managing Engineer

Daniel A. Schauer, P.G.
Principal