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May 4, 2016

Mr. David Kwiatkowski
North Carolina Department of
Environmental Quality
Division of Waste Management
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Subject: Work Plan and Schedule for Task Order 2666RA-4
Cannon Mills Landfill
Kannapolis, Rowan County, North Carolina
Site Identification Number: NCD003162666

Dear Mr. Kwiatkowski:

CDM Smith Inc. (CDM Smith) is pleased to submit this Work Plan and schedule for Task Order 2666RA-4 dated April 25, 2016. Per Task Order 2666RA-4, CDM Smith will evaluate the Draft Remedial Action Plan (DRAP) prepared by others for the Cannon Mills Landfill (site) located in Kannapolis, Rowan County, North Carolina. Following the evaluation of the DRAP, a letter will be provided summarizing review comments and suggestions for value engineering or revisions. Additionally, a site visit will be conducted to review existing conditions. Work Plan details and a schedule are summarized below.

Draft Remedial Action Plan Evaluation

CDM Smith will evaluate the remedial design approach, drawings, specifications, and permits for the DRAP in preparation of implementing the site remedy. Additionally, historical site documents (i.e. slope stability evaluation and flood plain analysis) will be reviewed. The remedial design for the DRAP includes waste excavation and relocation, slope and stream bank stabilization, the installation of an 18-inch cover soil system with a geotextile fabric above waste, a passive landfill gas venting system, temporary site controls, permanent erosion control measures, land use restrictions, and post-remedy monitoring.

The slope stability evaluation will include the preparation of cross sections and modeling to confirm the existing conditions factor of safety for overall global stability under static and seismic loading conditions. The factor of safety following slope stabilization activities and under seismic loading conditions will also be modeled and evaluated. The factor of safety for existing conditions was determined to be 1.11 and 1.636 following slope stabilization activities. The minimum acceptable factor of safety for overall global stability is 1.5 under static loading conditions and 1.0 under seismic loading conditions. The factor of safety for existing and post-remedy conditions under seismic loading conditions has not been evaluated.





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CDM Smith will review the certification and permits summarized below that have been obtained in preparation of initiating the site remedy. The expiration dates of the certification and permits will be compared to the estimated construction schedule to determine if extensions are required.

- Erosion and Sedimentation Control Plan Permit
- Water Quality Certification (Number 3885) in accordance with Section 401 of the Clean Water Act
- United States Army Corps of Engineers Section 404 Permit

CDM Smith will provide a letter summarizing the DRAP and slope stability evaluations. The letter will include value engineering recommendations and associated costs for each remedial design element, if applicable. Remedial design revisions, if any, will be supported with estimated costs and a schedule for implementation. The expiration dates for the certification and permits will be discussed along with the process and associated costs for renewal. The DRAP review and evaluation will not include the submittal of a revised DRAP or design drawings and specifications. Those tasks will be completed under a separate task order.

Schedule

CDM Smith will schedule the site visit within 2-weeks of receiving task order approval. The schedule may be adjusted to allow time for access negotiations with the property owner. CDM Smith anticipates completing the site visit in one day and the remedial design evaluation for the DRAP in 4-weeks following task order approval.

We look forward to working with you on this project. If you have any questions or comments, please do not hesitate to contact me by phone at (919) 325-3569 or by email to colonemf@cdmsmith.com.

Sincerely,

A handwritten signature in blue ink that reads "Mathew F. Colone".

Mathew F. Colone, P.G.
CDM Smith Inc.

cc: Daniel Forbes, CDM Smith