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5825 Triangle Drive, Suite 1 / Raleigh, NC 27617 / Tel (919) 786-1414 / Fax (919) 786-1418 / Email [raleigh@mma1.com](mailto:raleigh@mma1.com)

April 19, 2013

Ms. Analee Thornburg  
*Hydrogeologist*  
**NCDENR-Superfund Section**  
**Inactive Hazardous Sites Branch**  
1646 Mail Service Center  
Raleigh, North Carolina 27699

**Re: *Proposal and Cost Estimate-Task Order PRLF014-1***  
***Location Research: Walnut Avenue, Rhodhiss, Caldwell County, 1 Site***  
***State ID No. Unassigned***  
***State Contract: N11001S***  
***MM&A Project No.: NCUL241***

Dear Analee:

**Marshall Miller & Associates, Inc. (MM&A)** is pleased to provide the **North Carolina Department of Environment and Natural Resources (NCDENR)**, Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch with this *Scope of Work* and *Cost Estimate* for performance of an assessment of one old unlined landfill in Caldwell County, North Carolina, under Task Order No. PRLF014-1. The *Scope of Work* reflects the tasks required to collect the Site information and perform a Site inspection to provide NCDENR with adequate information to identify potential environmental risks at the Site.

## **SCOPE OF WORK**

The following discussion outlines the proposed scope of work for the project.

### **Subtask 1 – Project Management**

MM&A will perform management tasks throughout the project including project scoping, subtask scheduling, and coordination with NCDENR personnel throughout the project.

### **Subtask 2 – Site Location/Property Ownership**

Upon approval of the proposal for the Site, MM&A will use the data provided to determine the location of the waste disposal area, research details of property ownership and to collect as much data about the Site as possible, including tax maps, aerial photography, topographic location, etc. A visit to the county courthouse to obtain ownership and property information and/or the county's Soil & Water Conservation District for historical aerial photographs may be required. MM&A will make every effort to determine the years of operation and the type of disposed waste (e.g. municipal, construction and demolition, etc.)

### **Subtask 3 – Site Inspection**

NCDENR has contacted the property owners to obtain rights of access and has received verbal permission to access the properties. MM&A will schedule the Site visit through the coordination with NCDENR, who in turn will handle communication with the property owners. MM&A will conduct a Site inspection including completion of a *Site Inspection Checklist* to detail the following:

- Property location and size
- Suspected disposal area location and size
- Property conditions
  - Structures (including type of structure) located on the property
  - Current usage
  - Water supply wells and intakes located on the property
  - Evidence of municipal water supply
  - Surface water features
- Waste disposal area conditions
  - Identifiable perimeter
  - Evidence of potential landfill gas migration pathways
  - Physical barriers
  - Other pertinent information
- Vicinity conditions
  - Structures located within 50 feet of the waste disposal area
  - Water supply wells and intakes

- Evidence of municipal water supply
- Current land usage
- Surface water features

Costs for this Task Order have been projected assuming the Site inspection and any necessary travel and out-of-office research for Subtask 2 will be conducted during the same trip.

A GPS unit will be used during the Site inspection to acquire the location of the Site, establish the perimeter(s) of the waste disposal area(s), and mark any points of interest such as structures, water supply wells, and Site drainage features.

#### **Subtask 4 – Site Summary Report**

After the Site information has been gathered and the Site inspection is completed, a *Site Summary Report* will be prepared to provide NCDENR with the Site information in the predetermined report format. The report will include all Site location and ownership information; details of years of operation and type of disposed waste; highlight areas of note; provide summaries of Site and vicinity conditions; a discussion of the aerial photography; and a Site location research summary. Supporting information will be included as Appendices as follows:

- Maps: USGS 7.5 minute topographic (dates), Site map, vicinity map, other maps collected during the investigation.
- Aerial photographs (source and date)
- Tables: Tabulated GPS data, Areas of Concern
- Tax Records: 2012 or most recent tax statement, sales history
- Original *Field Reconnaissance Sheet*
- Communication records
- Photographs taken during Site inspection

#### **SCHEDULE**

MM&A will begin coordination of all work within 5 working days of the approval of this proposal. The site visit will be conducted within 3 weeks of approval of the Task Order. Invoices for work performed under this Task Order will be issued upon approval of the report.

Field Schedule	Subtask	Staff Level	
		Staff Scientist	Technician
Week 1, Days 1-2	Subtasks 2 & 3 (combined time/expenses)	1	1

A cost estimate for the proposed work is attached. MM&A appreciates the opportunity to provide this proposal. Should you have any questions or require additional information, please do not hesitate to call.

Sincerely,

**MARSHALL MILLER & ASSOCIATES, INC.**



Amy E. Hendershot  
*Project Manager*



Larry M. George, P.G.  
*Program Manager*

Attachment