



PAT MCCRORY  
*Governor*

DONALD R. VAN DER VAART  
*Secretary*

MICHAEL SCOTT  
*Director*

September 22, 2016

*Transmittal via email*

Flora D'Souza  
Shield Engineering, Inc.  
4301 Taggart Creek Road  
Charlotte, NC 28208

Re: Request for Landfill Gas Monitoring – Task Order 318RA-12  
McAdenville Dump | ID # NONCD0000318  
McAdenville Road  
McAdenville, Gaston County

Dear Ms. D'Souza:

Please submit a task work plan and cost estimate to perform remedial investigation-contaminant delineation phase activities at the above referenced site. Conduct these activities in accordance with State Contract No. N15003i.

**Investigation Goals:** Conduct three consecutive months of landfill gas monitoring from gas probes from all existing gas probes associated with the site referenced above.

**Scope of Work for Task Order 318RA-12:**

- Prepare a work plan in accordance with Shield Engineering, Inc.'s approved standard operating procedures dated July 1, 2016, and include a schedule of daily activities.
- Submit an itemized cost estimate that identifies personnel and materials involved.
- Reference the most recent Guidelines for Addressing Pre-Regulatory Landfills and Dumps for details regarding procedures.
- Ensure personnel in the field are qualified to identify contaminated material and landfill waste and comply with OSHA-required health and safety training. Before task activities begin, photograph areas or objects that may be disturbed. If needed, photograph affected areas and objects, restoration efforts, and noteworthy items encountered during task activities. Submit these photographs upon completion of the activities, and a review will determine if any need to be included in the report.
- Include background (light grey) topographic contour lines on figures detailing the Site and Site vicinity.
- For any field work, minimize the clearing of vegetative material to enable access to proposed sampling points. Using hand tools for clearing is the preferred method, otherwise an explanation must be provided for use of heavy equipment.
- Provide a report detailing activities performed to complete this task order.

### Landfill Gas Probe Monitoring

- Screen the landfill gas probes for volatile organic compounds (VOCs), methane, oxygen, carbon dioxide, hydrogen sulfide, and barometric pressure.
- Compare landfill gas probe screening results with the IHSB Residential Vapor Intrusion Screening levels.
- Do not abandon the gas probes following screening. A review of the field testing results will determine subsequent sample collection.

### Report Compilation

- Compile a report that contains the following items:
  - Text, tables, and figures to adequately summarize task activities.
  - A section concerning any variations from the work plan or your SOPs.

Provide the work plan and cost estimate by September 29, 2016. A task authorization to begin work will be issued based on the approved proposal. Do not proceed with tasks prior to receiving this authorization. Please contact me at 919-707-8331 or [thomas.slusser@ncdenr.gov](mailto:thomas.slusser@ncdenr.gov) if you have any questions.

Best regards,



Thomas Slusser, L.G., C.E.E.  
Pre-Regulatory Landfill Unit  
Division of Waste Management