



PAT MCCRORY

Governor

DONALD R. VAN DER VAART

Secretary

LINDA CULPEPPER

Director

January 26, 2016

Ms. Genna Olson
ATC Associates, Inc.
2725 East Millbrook Road, Suite 121
Raleigh, NC 27604

Re: Request for Work Plan and Cost Proposal
Task Order: TO8913DP-14 & 15
Kinston Demolition Landfill
Kinston, Lenoir County
NCD075588913

Dear Ms. Olson:

Submit a task work plan and cost estimate to perform remedial investigation activities at the above referenced site. Conduct these activities in accordance with State Contract No. N13003S.

Investigation Goals: The goals of this phase of work are to: conduct confirmatory surface water/sediment sampling, advance and sample borings within the waste disposal footprint for waste characterization, collect cover soil samples from select locations to determine if previously identified total chromium concentrations is hexavalent chromium.

Scope of work for Task Order 8913DP-14:

- Prepare a work plan in accordance with ATC's approved standard operating procedures dated April 17, 2013, 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.
- Collect GPS coordinates for each boring and any new sampling location. Report coordinates in decimal degrees to the seventh order using the North American Datum of 1983 (NAD83) format and latitude and longitude using WGS 84 format. These coordinates will be tabulated and include



as an appendix.

- Include background (light grey) topographic contour lines on figures detailing the Site and Site vicinity.
- For any invasive activities, provide a plan to properly manage investigation derived waste (IDW). If sampling results indicate non-hazardous IDW, spread within the waste disposal area. If sampling results indicate hazardous IDW, analyze containerized waste as required by waste hauler and include details of sampling and disposal of drums in the proposal. Remove all drummed waste and associated fencing from site within 90 days after field activities are concluded.
- 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. Submit samples to a North Carolina-certified laboratory and analyze for the following parameters by the most current U.S. EPA Contract Laboratory Program Target Compound List: volatile organic compounds by SW-846 method 8260, 1,4-dioxane by Method 8260SIM, semi-volatile organic compounds by SW-846 method 8270, 14 metals by SW-846 method 6020, mercury by method 7471, ammonia by SM 4500, and nitrate and sulfate by EPA Method 300. Please note that any alternate method should be the U.S. EPA Method having the lowest detection limit and that at least achieves the detections equivalent to the 15A NCAC 2L standards or where these are not available, then federal maximum contaminant limits (MCLs). Soil analysis methods must meet the IHSB Preliminary Soil Remediation Goals Table.
- Note: once all contaminants are determined, laboratory analysis may be reduced to those positively identified contaminants.
- Upon completion of task activities, submit field notes, photographs, and validated analytical results for review.

Surface Water/Sediment Investigation:

- Collect both a surface water and sediment samples from the previously sampled locations designated as SW/SED-1 through SW/SED-25 on the attached map. Note that SW/SED-1 and 21 are the same location and SW/SED-6 and 20 are the same location and should only be sampled once. In addition, collect surface water and sediment samples from newly identified locations SW/SED-26 through SW/SED 30 as shown on the attached map. For the sediment and surface water sample locations SW/SED-5, 8, 11, 16, 18, 21, 23, 24, 26, and 29, include laboratory analysis for Hexavalent Chromium.

Waste Characterization

- Utilizing augers, advance seventeen borings (SB-166 through SB-182) in the locations within the waste boundary as indicated on the accompanying figure. Continuously log each boring and characterize the waste. Collect solid media samples from each boring at five foot intervals beginning at the top of waste. Collect one additional solid media sample from the base of waste and one from native soil beneath waste. Submit the samples for laboratory analysis.
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Soil Cover Chromium Investigation

- Collect soil samples for laboratory analysis of Hexavalent Chromium only from previously sampled locations SB-2 (18”), SB-16 (6”), SB-29 (6”), SB-45 (6”), SB-51 (6”), SB-87 (18”), SB-95 (“6”), SB-118 (“6”), SB-139 (“6”), SB-151 (“6”), and SB-157 (18”).



Scope of Work for Task Order 8913DP-15: Report Compilation

Compilation of the report will be approved as a separate task order. The Report will be titled “Remedial Investigation – Media Sampling”.

The report is to contain the following items:

- Text, tables, and figures to adequately summarize task activities.
- A section concerning any variations from the work plan or your SOPs.

Submit a work plan (including schedule) and an itemized cost estimate to perform these remedial investigation activities by February 9, 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. If you have any questions or concerns, contact me at (919)707-8230

Sincerely,



David P. Kwiatkowski, L.G., Hydrogeologist
Division of Waste Management - NCDEQ

