9601-CDLF-1997

RCO2508

OPERATION/CONSTRUCTION MANAGERS

CIVIL/SANITARY ENGINEERS

Municipal Services

Engineering Company, P.A.

Carmen Johnson
Fac/Perm/Co ID# 96-01
Date 7/24/12
Doc ID#
DIN

June 14, 2007

Mrs. Jaclynne Drummond
Solid Waste Section - Compliance
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Addendum Assessment of Potentially Impacted Soil and Groundwater
Wayne County C&D Landfill on top of Closed MSW
Permit No. 96-01

Mrs. Drummond:

In response to our phone conversation on June 6, 2007, Municipal Engineering Services Co., P.A. (MESCO) has provided an addendum to the Wayne County Landfill – Storm Water Release Sampling Plan. The addendum addresses the sample containers, decontamination procedures, depth of borings, wetland soil sample, site map showing boring locations, depth vs. PID chart, and field screening procedures.

A summary of report will be completed upon the outcome of sampling results and any actions taken. If you have any questions, please feel free to contact me at (919) 772-5393.

Sincerely,

MUNICIPAL ENGINEERING SERVICES CO., P.A.

Ethan J. Caldwell, PG

Received
JUN 2007
Solid Waste Section

Enclosures

cc: Tim Rogers, Wayne County
Wayne Sullivan, MESCO

PO Box 97, Garner, North Carolina 27529 (919) 772-5393
PO Box 1197, Morehead City, NC 28557 (252) 726-9481
PO Box 349, Boone, North Carolina 28607 (828) 262-1767

ADDENDUM OVERVIEW OF PROPOSED PROJECT APPROACH

ADDENDUM TO THE SCOPE OF WORK

Task 1 – Identify Potential Impacted Soil

Hand auger borings will be bored until the water table is reached. Groundwater elevation, below ground surface, will be noted in the field log book. Soil samples will be collected and field screened at 1 foot intervals.

Collected soil samples will be field screened in the following manner:

1. Collection of soil in Ziploc® bag, sealing the bag upon collection.
2. Allow for headspace development ~ 10-15 minutes.
3. Unzip the corner of the bag and insert PID sampling probe.
4. Record maximum meter response.

Depth vs PID readings will be recorded for each boring in the field log book.

Soil samples will be collected from hand auger. The hand auger will be cleaned between each boring in accordance with the following procedure:

1. Phosphate-free soap tap water was using a brush if necessary to remove particulate matter.
2. Tap water rinse.
3. Deionized or distilled water rinse.
4. Isopropyl alcohol rinse.
5. Deionized or distilled water rinse.
6. Air dry.

Soil Sampling Containers

Upon identifying the locations for collection of laboratory soil samples, a new hand auger boring will be performed at the identified locations. The laboratory soil samples will be collected from the specified locations as a grab sample. Soil samples collected for laboratory analysis will be collected in laboratory provided sample jars.

1. Each sample container will be labeled providing the following information: site name, county location, sample identification number, parameters to be analyzed, preservative added, date and time of sample, initials of sampler.
2. Samples to be analyzed for organic contents will be collected first in one 4-oz glass jar with Teflon-lined septa screw cap. The sample vials will be completely filled to create zero head space in the jar.

3. Samples to be analyzed for inorganics will be collected second in one 4-oz glass jar.

A wetland area a soil sample will be collected, even in the event that elevated PID readings are not measured. The location of the soil sample will be identified in the field as the most likely location of surface water flow. Identification may be based on stressed vegetation or a low in the ground surface.

Task 2 – Identify Potentially Impacted Groundwater-Surface Water

Groundwater samples will be obtained as prescribed in the Sampling and Analysis plan. Samples will be collected in the field using a laboratory cleaned, stainless steel bailer. Each bailer will be sanitized in a laboratory environment, prior to sampling, in accordance with the following procedure:

1. Phosphate-free soap tap water wash.
2. Tap water rinse.
3. Deionized or distilled water rinse.
4. Isopropyl alcohol rinse.
5. Deionized or distilled water rinse.
6. Air dry.
7. Aluminum foil wrap with shiny side out.

Groundwater Sampling Containers

Groundwater samples collected for laboratory analysis will be collected in laboratory provided sample jars.

1. Each sample container will be labeled providing the following information: site name, county location, sample identification number, parameters to be analyzed, preservative added, date and time of sample, initials of sampler.
2. Samples to be analyzed for organic contents will be collected first in three 40-ml glass vials with Teflon caps. The sample vials will be completely filled to create zero head space in vials.
3. Samples to be analyzed for inorganics will be collected second in a quart/1-liter polyethylene container.

Task 5 – Summary Report

In addition to the sampling results and actions taken, the summary report will include a vacintiy map with the boring locations, soil lithological descriptions, and a chart of boring depths with PID readings.