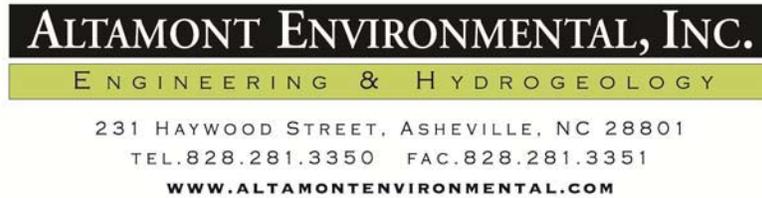


Permit No.	Date	DIN
44-01	August 14, 2013	19524

RECEIVED
August 13, 2013
Solid Waste Section
Asheville Regional Office



Transmitted via email
allen.gaither@ncdenr.gov and tom.richardson@ipaper.com

August 13, 2013

Mr. Allen Gaither
North Carolina Department of Environment and Natural Resources
Division of Waste Management Solid Waste Section
2090 US Highway 70
Swannanoa, North Carolina 28778

Subject: Work Plan for Exploratory Gas Probe Abandonment
International Paper Company Closed Landfill 5C
State Road 1613 (Beaverdam Road)
Haywood County, Canton, North Carolina
Permit No.: 44-01

Dear Mr. Gaither,

Altamont Environmental, Inc. (Altamont) is pleased to provide this work plan for the abandonment of six exploratory gas probes at the International Paper Company's Closed Landfill 5C on behalf of the International Paper Company (IP).

Project Scope

The six exploratory gas probes that are proposed to be abandoned include probes LF5C-LFG7, LF5C-LFG8, LF5C-LFG9, LF5C-LFG10, LF5C-LFG11, and LF5C-LFG14. The locations of these gas probes are provided on the attached Figure 1. These gas probes are not part of the gas probe compliance monitoring network at the site from which annual reporting is generated. The abandonment of the probes is due to the fact that these gas probes are problematic for the hay harvesting that is completed seasonally at Landfill 5C.

All work described in the following paragraph will be completed under a separate health and safety plan. Particular attention will be devoted to the potential presence of landfill gas (methane), taking into account its flammable and explosive nature.

Due to the fact that the subject gas probes are installed in a manner consistent with monitoring wells (i.e., probes are enclosed by a steel security casing that is anchored in concrete), removal by hand digging will not be possible. Instead, Altamont will utilize a mini-excavator to carefully expose the base of each of the subject gas probes to allow for subsequent removal. Once the polyvinyl chloride (PVC) casing of the gas probes is exposed, a wire saw will be used to cut the PVC casing above the level of the excavation. The PVC casing will be cut higher than the level of the excavation to prevent soil and vegetative matter from entering the PVC casing of the gas probe. Following cutting of the PVC casing, the steel security casing and concrete will be lifted using the mini-excavator and loaded into a waiting truck bed. With the PVC casing cut and the security casing removed, a decontaminated water level meter will be used to determine if any water is present in the gas probe. If water is present, a cup of bleach will be poured into the well to prevent any bacterial growth. The next step of abandonment will be to introduce an appropriate quantity of bentonite into the gas probe to fill it to within approximately 1-foot of the ground surface. After the bentonite has been

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introduced, concrete will be used to fill the remainder of the excavation to within approximately 6-inches of the ground surface. Soil that was excavated from around the base of the gas probe will then be used to fill the remainder of the excavation to the ground surface.

Due to the thickness of the cap in this area of Landfill 5C, it is not anticipated that landfilled waste will be encountered. However, if landfilled waste is encountered, it will be loaded into a waiting truck for transport and disposal at the active Blue Ridge Paper Products landfill located on Incinerator Road in Clyde, North Carolina. These waste materials will be transported to the Blue Ridge Paper Products landfill via a tarp-covered truck bed to prevent any loss of waste material in transit.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Altamont Environmental, Inc.



Brian Gant

Attachment: Figure 1—Landfill 5 Gas Probe Network

