

Permit No.	Date	Document ID No.
43-02	February 24, 2014	20628

**From:** Chao, Ming-tai  
**To:** "Pieter Scheer"  
**Cc:** [Mussler, Ed](#); [Shackelford, Dennis](#); [Hearn, Robert](#); [Amanda Bader](#); [Randy W. Smith](#); [Joan Smyth](#)  
**Subject:** RE: Harnett County - Dunn-Erwin Landfill - French Drain Removal Notification  
**Date:** Wednesday, December 04, 2013 4:18:00 PM

Sent by an e-mail  
Date: **December 04, 2013**  
Solid Waste Section  
Raleigh Central Office

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Pieter:

I was in NCSWANA "working together" training all day yesterday and NCDENR Performance Training this whole morning, and finally can sit down & review the submittal this afternoon.

The submittal is placed in the DWM tracking system with a Doc ID 20241.

Below are my concerns, please address them as soon as possible if you want an approval by Thursday, 12/05/2013 because I will be on my vacation from 12/06/13 to 12/16/2013; or we can discuss them later while I am back from my vacation.

The proposal indicated that approximately 800-foot French Drain (FD) will be removed, but the exact locations/segments of the existing FD which are subjected removal didn't specify in the context and the drawing (the arrows pointed to irrelevant objects). If the final decision of which sections/segments of FD are subjected to removal will be made in the field by the County and/or Smith & Gardner, please state so. The record report needs to show the original FD alignments and the removed sections (including sumps, as occurred).

Since the FD is installed / buried under the layers of trashes inside the landfill, Harnett County must prepare and implement the task-specific health and safety plan (H&S Plan) including trenching/shoring requirements must be prepared prior to initiating any excavation and removal activities. Continuously monitoring explosive gas is an essential task must be properly addressed in the plan and documented. The Solid Waste Section will not review the H&S Plan; however, it is the County's responsibility to ensure that the removal activities will be conducted according OSHA safety requirements.

The procedures to manage leachate encountered during removal activities.

The disposal methods of removed FD and stones.

I will suggest that the FD removal activities should not begin until the CAP project (leachate and groundwater interception/extraction system & pump station – Doc ID 17303) is completed, tested, and operational. A study / investigation of the CAP project having any impact of leachate flow inside FD may provide us the better picture /understanding if the removal FD is necessary (\$\$\$\$ spend on the right place).

Ming Chao

Ming-Tai Chao, P.E.  
Environmental Engineer  
Permitting Branch, Solid Waste Section  
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**From:** Pieter Scheer [mailto:pieter@smithgardnerinc.com]

**Sent:** Tuesday, December 03, 2013 9:20 AM

**To:** Chao, Ming-tai

**Cc:** Mussler, Ed; Shackelford, Dennis; Hearn, Robert; Amanda Bader; Randy W. Smith;  
pieter@smithgardnerinc.com; Joan Smyth

**Subject:** Harnett County - Dunn-Erwin Landfill - French Drain Removal Notification

Ming:

Please see the attached notification regarding the planned removal of French drains at the Dunn-Erwin Landfill. Please just let me or Amanda Bader know if you have any questions. Thanks.

Pieter

**Pieter K. Scheer, P.E.**

Vice President, Senior Engineer

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