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Date: October 05, 2012
Solid Waste Section
Raleigh Central Office

Chao, Ming-tai

From: Chao, Ming-tai
Sent: Friday, October 05, 2012 3:15 PM
To: David Garrett
Cc: Werner, Elizabeth; Jernigan, Hugh; Watkins, Jason; ronniepetty@a1sandrockinc.com
Subject: Comments on the PTO application, A1 Sandrock CDLF Phase 1C, 41-17

Hey David:

On September 21, 2012, I received an e-mail containing the electronic submittal titled "Application for Permit to Operate – A-1 Sandrock C&D Landfill Phase 1C (PTO Application)" dated September 13, 2012. The PTO Application was logged into the DWM tracking system with a tracking number Doc ID 17289. After completing a review of the engineering portions of the PTO Application, I need you provide additional information which are stated below:

1. According to the drawings in the approved PTC applications, there are five soil borings located inside the Phase 1, Cell C – B19, B-20, B-21, B-27, and B-28. Did the boring B-28 converted into a piezometer and properly abandoned? If so, please provide the documentation and record to demonstrate the boring/piezometer has been properly abandoned.
2. Please provide boring logs of borings B-19, B-20, B-21, B-27, & B-28 to demonstrate that soil types at the elevations - two feet below the landfill cell base meet the requirements stated in Rule .0540(2)(b). The data collected from the test pits didn't cover the entire Phase1, Cell C.
3. Although the conclusion in the Application indicated that "the base grade deviation will not affect the overall disposal volume of Phase 1 or the landfill as a whole," A-1 Sandrock, Inc. needs to provide a revised total gross capacity for Phase 1, Cell C.

Elizabeth will review the hydro portions related to the diabase dike and vertical separation requirement ("Base Grading Plan Deviation" section). She will inform you if there is any additional info or comment need to be addressed. Have a wonderful weekend.

Ming-Tai Chao, P.E.

Environmental Engineer

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