



Sanborn, Head & Associates

Consulting Engineers & Scientists

March 21, 2005
File No. 2375.01

Wayne A. Wheeler, P.E.
Waste Management Division
New Hampshire Department of Environmental Services
P.O. Box 95
Concord, NH 03302-0095



Re: Construction Status Report for Period Ending March 18, 2005
Stage III Gas System Modifications Project (Fall 2004)
North Country Environmental Services, Inc. Landfill
581 Trudeau Road
Bethlehem, New Hampshire
NHDES Permit #DES-SW-SP-00-003

Dear Wayne:

This letter was prepared in accordance with Env-Wm 2804.07 to provide a biweekly status report of construction activities at the North Country Environmental Services, Inc. (NCES) facility in Bethlehem, New Hampshire for the period ending March 18, 2005. A summary of activities performed by Sargent & Sargent (Sargent) for the two-week period is provided below.

I. Description of Work Completed to Date

Sargent installed a 4-inch diameter lateral pipe between gas well GW-12A and the recently installed 12-inch diameter header to the southwest to reestablish vacuum at GW-12A. The 4-inch diameter was connected to the 12-inch diameter header between condensate traps CT-5 and CT-7.

Sargent installed about 400 linear feet of horizontal collection header HCT-7 from the western end of the collector to the area adjacent to existing gas well GW-15. Sargent planned to complete the installation of HCT-7 during the week of March 21, 2005.

Sargent installed horizontal collection header HCT-8, including the lateral pipes to wellheads HCT-81 and HCT-82. The two wellheads were also installed.

During the installation of HCT-8, Sargent exposed the existing 4-inch diameter perforated ADS pipe that was installed beneath the geomembrane cap on Stage I with the intention of connecting the active gas system to the pipe through proposed wellhead 315. The ADS pipe was observed to be crushed. Additional pipe was exposed back toward the edge of the geomembrane cap and was in the same condition everywhere it was exposed. Therefore, a lateral pipe to the ADS pipe was not installed, and wellhead 315 was not installed. The vertical riser from the 12-inch diameter header pipe for wellhead 315 was installed and capped with an elastomeric cap.

*Paul M. Sanborn ■ Charles L. Head ■ R. Scott Shillaber ■ Charles A. Crocetti ■ James A. Chabot
Mathew A. DiPilato ■ Daniel B. Carr ■ Duncan W. Wood ■ Joseph G. Engels ■ Vernon R. Kokosa*

Sanborn, Head & Associates, Inc.
20 Foundry Street ■ Concord, NH 03301
www.sanbornhead.com
Phone (603) 229-1900 ■ Fax (603) 229-1919

II. Construction Schedule

A revised construction schedule dated March 16, 2005 is attached.

III. Design Changes

NCES has asked Sargent to install an additional 150 linear feet of 8-inch diameter perforated horizontal collection pipe to extend horizontal collection trench HCT-8 to the east. The additional collection pipe will be installed from the southerly end of the original pipe alignment, labeled "HP", to the east parallel to the alignment of the existing cap access road between the road and condensate trap CT-5.

NCES has also asked Sargent to perform some modifications to the Stage II Phase I and the Stage III side riser buildings. The interior floor of the Stage II Phase I side riser building is five to six feet below grade, and the atmosphere within the building typically has relatively high concentrations of landfill gas. The plan is to fill the lower portion of the Stage II Phase I side riser building with Portland cement-based flowable fill capped with a 4-inch thick concrete slab. The finished floor elevation will be just below the invert of the lowest sideslope riser pipe where it penetrates the back wall of the building. The new slab and the interior of the concrete walls will be coated with a two-part epoxy vapor barrier coating to limit the infiltration of landfill gas into the building.

As part of the Grading Modifications project last summer, the Stage III side riser building was relocated on a new concrete foundation. The interior floor slab and the bottom one foot of the interior walls were coated with a two-part epoxy vapor barrier. Over the winter, NCES has noted the presence of landfill gas constituents in the side riser building. NCES has asked Sargent to remove the insulation from the interior concrete walls, and coat the full height of the walls with the vapor barrier coating to limit landfill gas intrusion. Sargent will reinstall the insulation on the walls after the coating has cured.

IV. Damage and Repair Information

No damage to the newly installed infrastructure was observed during this construction period.

If you have any questions, or require further information, please feel free to call.

Sincerely,
SANBORN, HEAD & ASSOCIATES, INC.



James A. Chabot, P.E.
Principal

JAC/ESS

Attachment: Updated Construction Schedule

cc: Eugene J. Martin, NCES
Sean Moran, NCES
David Cedarholm, P.E., SHA