



The State of New Hampshire  
**Department of Environmental Services**

**Thomas S. Burack, Commissioner**



*Celebrating 25 Years of Protecting  
New Hampshire's Environment*

May 24, 2012

Michael Blayney, Ph.D.  
Director Environmental Health and Safety  
37 Dewey Field Rd, Suite 6216Mi  
Hanover, NH 03755

**MISC REVIEW:**

	Case #	Initials
Health/Code:	12.H34	R.L. [Signature]
Zoning:	12.212	[Signature]

**SUBJECT:** Etna – Dartmouth College, Rennie Farm Project, Hanover Center Road,  
DES Site #201111109, Project #27737

Letter dated April 23, 2012, and prepared by GZA GeoEnvironmental, Inc.

Dear Dr. Blayney:

The Department of Environmental Services (Department) has reviewed the letter dated April 23, 2012 and submitted on behalf of Dartmouth College (Dartmouth) by GZA GeoEnvironmental, Inc. (GZA) and offers the following comments.

The Department understands from correspondence from your office and GZA that from the mid 1960' until the late 1970s Dartmouth Medical School buried laboratory animal carcasses, limited volumes of associated laboratory debris and chemical containers. Dartmouth determined that some of these carcasses contained research amounts of radioactive materials.

As part of a limited assessment at the burial site, suspect chemical contaminated soil was encountered in the area where laboratory chemical waste was detected. GZA installed groundwater monitoring wells in 2009. Site remediation activities were performed in early November 2011, as a result of Dartmouth's decision to decommission the Rennie Farm site, and all waste materials have been excavated.

Groundwater quality samples from four overburden wells were analyzed on multiple occasions for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. No contaminants were detected above Ambient Groundwater Quality Standards.

Soil samples taken from the bottoms and sidewalls of excavated areas were analyzed for VOCs, SVOCs, Polychlorinated Biphenyls and pesticides. Analytical results did not detect any contaminants above the S-1 Soil Standards. Additionally, results from samples of excavated soils analyzed via Toxicity Characteristic Leaching Procedure extraction were below hazardous waste toxicity characteristic standards.

As recognized, a separate Environmental Protection Agency (EPA) hazardous waste identification number will be needed to address the excavated chemical waste at the site. Please contact Maria Michel at the Department's Reporting & Information Management Section at 271-3202 regarding this matter.



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Based on the data presented, the Department has concluded that conditions at this site do not indicate the presence of regulated contaminants in accordance with Env-Or 600. Therefore, no additional investigation, remedial measures, nor groundwater monitoring shall be required at this site. Accordingly, the Department will remove this site from our active project list and close the regulatory site file.

The Department reserves the right, under New Hampshire Code of Administrative Rules Env-Or 600, *Contaminated Site Management*, to require additional investigations, remedial measure, or groundwater monitoring if further information indicating the need for such work becomes known.

If you have questions regarding this matter, please feel free to contact me.

Sincerely,



Rebecca S. Lawrence, P.G.  
Waste Management Division  
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Waste  
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ec: Michael Wimsatt, P.G, Director WMD  
Keith DuBois, P.G., HWRB  
Dr. Twila Kenna, NH BRH  
Timothy Kipp, GZA GeoEnvironmental, Inc.  
Town of Hanover Health Officer