



The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES



Thomas S. Burack, Commissioner

July 3, 2014

7/11/14
RZB

Michael D. Cimis, Assistant Director of Environmental Health & Safety
Dartmouth College
37 Dewey Field Road, Suite 6216
Hanover, NH 03755

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

Supplemental Hydrogeologic Investigation Work Plan, prepared by GZA
GeoEnvironmental (GZA), dated June 24, 2014

Dear Mr. Cimis:

The Department of Environmental Services (Department) has reviewed the above-referenced Work Plan for the Rennie Farm site, as recently submitted pursuant our March 13, 2014 letter. Based on our review, the scope of work proposed by GZA in the Work Plan appears sufficient to further assess groundwater flow conditions and the distribution of 1,4-dioxane in groundwater downgradient from the site remediation area. Accordingly, the Department approves the Work Plan. Please complete the additional investigations described therein as soon as feasible, and provide the findings and recommendations to the Department via preparation of the Site Investigation (SI) Report, as described in Task 3 of the GZA Work Plan.

For your consideration relative to the scope of the proposed groundwater sampling program (to be completed following installation of the additional monitoring wells), we suggest that sampling of the spring located further to the east of the site be considered following review of the analytical results for the initial groundwater sampling round. Specifically, if the groundwater analytical results for the inactive dug well indicate concentrations of 1,4-dioxane that are close to or greater than the Department's Ambient Groundwater Quality Standard (AGQS) of 3 ug/l, then collection of groundwater quality data from the spring (as feasible) may be useful at further assessing the easterly extent of 1,4-dioxane presence in groundwater.

As noted by GZA, the Department understands that additional investigations could potentially be required to define a Groundwater Management Zone (GMZ) for the site (a main requirement of the Groundwater Management Permitting process), particularly if the 1,4-dioxane "plume" in groundwater extends off site. However, additional investigative requirements (if any) can be included in the Groundwater Management Permit as special conditions. Accordingly, please include an application for the Groundwater Management Permit with the SI Report

