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Environmental Engineering and Ground Water Consulting

February 2, 2006

Ms. Beth Rosenblum
Southborough Conservation Commission Administrator
Southborough Town House
17 Common Street
Southborough, MA 01772

Re: Breakneck Hill Conservation Area
Leachate Sampling Results

Dear Ms. Rosenblum:

The following is letter report summarizing the results of the leachate sample that was conducted at the dump site located on a portion of the Breakneck Hill Conservation Area.

Sampling Procedure

The sample was collected from the toe of the farm dump on January 5, 2006 immediately next to the overturned vehicle (see attached Photograph # 1). The procedure for collecting the sample was to excavate a shallow depression approximately eight inches deep within which the leachate accumulated (see attached Photograph # 2). As the depression filled with leachate, it was immediately transferred to the sampling containers. The sample was analyzed for Priority Pollutant 13 metals, iron, pesticides, volatile organic compounds, PCBs, base/neutral and acid extractable compounds, polyaromatic hydrocarbons, halogenated volatile organic compounds, EPH/VPH compounds, 2,3,7,8-TCDD (indicators for dioxins and furans). Phoenix Environmental Laboratory of Manchester, Connecticut analyzed the sample. The results are summarized in Table 1. The laboratory report is included as Attachment 1.

Discussion of Results and Conclusion

With the exception of four metals, no other compound or suite of chemicals were detected in the sample. The four metals and their respective concentrations that were present include; iron (14.3 mg/l), lead (0.007 mg/l), nickel (0.005 mg/l) and zinc (0.073 mg/l). Not surprisingly, these are metals commonly associated with automobiles and other fabricated metal parts. None of the detected levels exceed, or even approach, the Massachusetts Contingency Plan GW-1 standard, which applies to drinking water, or the GW-3 standard, which applies to surface water.

Based upon these results, it appears that aside from aesthetic and public safety concerns, the dump site poses no threat to the environment.

Please call me with any questions that you may have regarding this report.

Sincerely,

D'Amore Associates, Inc.



Denis D'Amore, Ph.D., P.E.
Licensed Site Professional

Photographs, Table and Attachment