



## IMPACT ENVIRONMENTAL

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August 7, 2006

Mr. Brian Jankauskas, P.E.

**New York State Department of Environmental Conservation**

Division of Environmental Remediation  
Remedial Bureau A  
625 Broadway  
Albany, New York 12233-7015

*Re: Groundwater Sampling Plan  
Melody Cleaners Site VCP Code 347-1  
East Meadow, New York*

Dear Mr. Jankauskas:

This letter serves as an abbreviated Groundwater Sampling Plan with respect to the above referenced site. This plan is intended to comply with the requirements of the New York State Department of Environmental Conservation (NYSDEC) as outlined in the letter, dated July 20, 2006. The NYSDEC has requested that the existing monitoring wells and soil vapor extraction wells be sampled to determine the current groundwater quality at the Site. Accordingly, this plan outlines the procedures that will be followed to complete these required sampling activities.

In October 1999, three monitoring wells, identified as MW-1, MW-2 and MW-3 were installed using a hollow stem auger on the Site by Fenley & Nicol Environmental. These permanent monitoring wells were installed on the southwestern, northwestern and eastern sides of the Melody Cleaners building, respectively. In August 2004, four soil vapor extraction (SVE) wells, identified as SVE-1, SVE-2, SVE-3 and SVE-4 were installed on the Site using a hollow stem auger by Impact Environmental as part of interim remedial measures. SVE-1 well was installed south of the Melody Cleaners building; SVE-2 was installed on the southern portion of the Site; SVE-3 was installed on the southern side of the former TV Repair shop building (along Front Street); and SVE-4 was installed on the northeast side of the Melody Cleaners building (see the attached site map).

Based on the age of the three monitoring wells installed by Fenley & Nicol Environmental, it will be necessary to review previous well completion logs to verify that the screened depth at these wells are appropriately positioned into the water table. In addition, these wells may require fit tests or re-development using a pump truck to reactivate them prior to sampling. Upon completion of these activities and confirmation that these wells are suitable for providing reliable

groundwater quality data, they will be sampled along with the existing SVE wells on the Site. The sampling will comply with the following procedures.

A field log protocol will be conducted to record sampling data including; date, time, location, sample identification code, depth to water, method of well purging, and sampling technique. The monitoring wells will be purged by evacuating a minimum of three (3) static well volumes utilizing a mini pump. A static well volume is defined as  $\text{Static well volume} = \text{height of water column} \times (\text{well radius})^2 \times \pi \times 7.48$  (where 7.48 is the conversion factor for cubic feet to gallons). Field measurements will be secured from each monitoring well during the purging process to provide data regarding physical groundwater characteristics. The development water will be field analyzed for pH, specific conductivity and temperature. Results of the field measurements will be utilized to establish steady state conditions within the groundwater aquifer. Following development, one water sample will be acquired from each of the monitoring wells utilizing a dedicated disposable bailer to prevent cross-contamination. All of the samples will be transferred with minimal disturbance into the appropriate vessels and stored in a cooler with ice for preservation. In, one field blank sample will be collected at the time of the well sampling. The development wastewater will be containerized for subsequent disposal. The holding times for the groundwater samples will not exceed 7 days for volatiles.

The groundwater samples will be properly preserved for transportation with a trip blank to an ELAP certified laboratory (Chemtech of New Jersey) for analysis. The laboratory analysis method for each sample will consist of USEPA Test Method 8260 for total volatile organic analytes. IN addition, one duplicate sample will be analyzed for quality control and assurance purposes. The detection limits for the analysis will meet the acceptable criteria for ambient groundwater quality standards. The laboratory analytical results will be reported with Analytical Sampling Protocol (ASP) B deliverables. The results of the sampling activities will be presented to the NYSDEC in a letter report that provides an evaluation of the data collected as part of this groundwater sampling plan. Upon approval of this plan, the sampling activities will be completed within 2-weeks; the analytical data package will require an additional 3 weeks to receive from the laboratory; and the summary report will be furnished approximately 2 weeks upon receipt of the analytical data.

Please feel free to call me with any questions or comments regarding this plan.

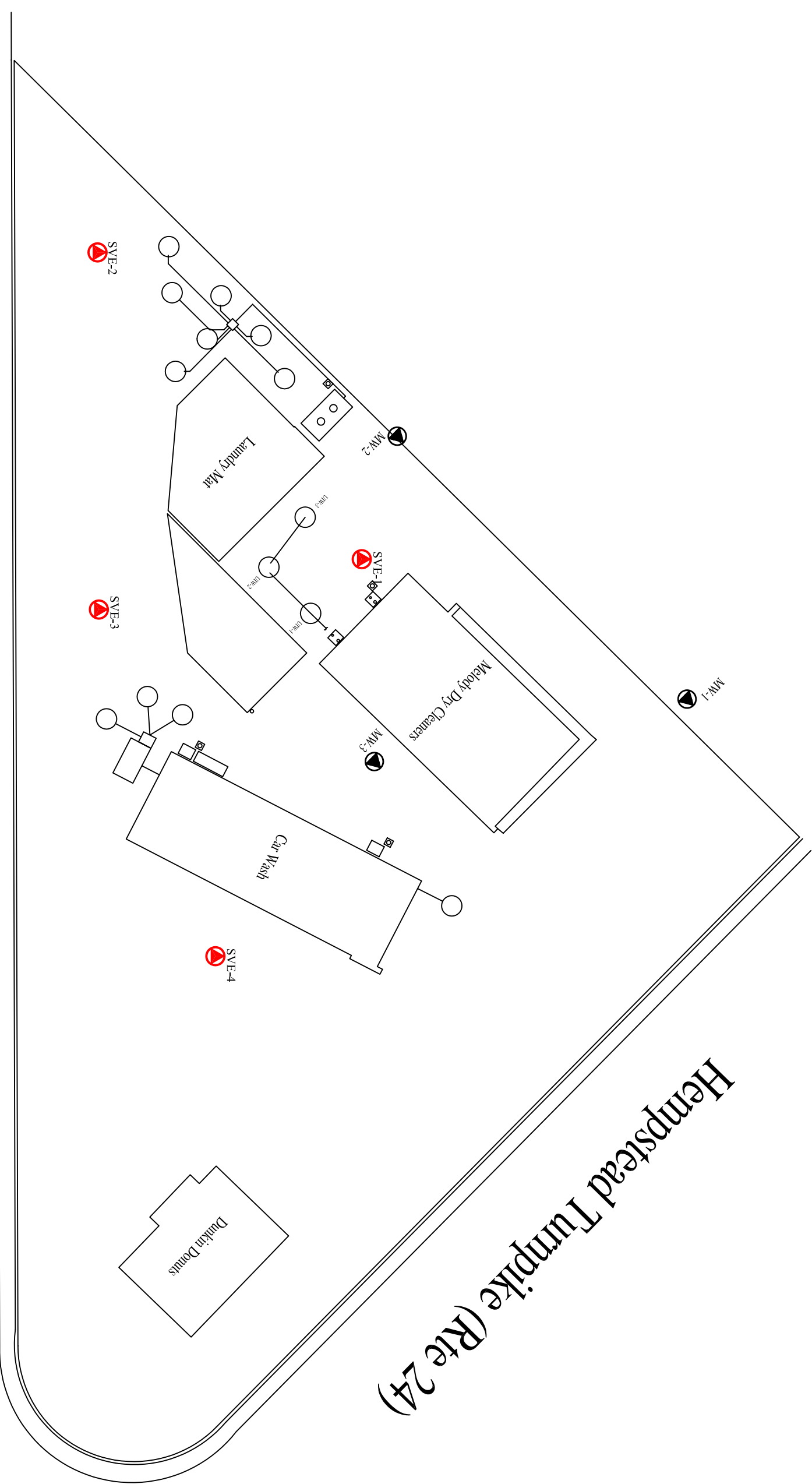
Sincerely,  
**Impact Environmental**

Kevin Kleaka  
*Quality Assurance Officer*

Attachment: Site Map

Hempstead Turnpike (Rte 24)

Front Street



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04-455

On-Site MW and SVE  
East Meadow, New York

Legend

Scale: 1" = 40'

- Monitoring Well
- SVE Well