day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

March 16, 2007

Mr. Eugene Melnyk
Division of Environmental Remediation
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2899

Re: Brownfield Cleanup Program Site #C907027
Anderson Cleaners Site
Jamestown, New York

Dear Mr. Melnyk:

Day Environmental, Inc. (DAY) is submitting this letter to the New York State Department of Environmental Conservation (NYSDEC) on behalf of Anderson Cleaners (Anderson). This letter describes the study intended to evaluate the design requirements for a sub-slab depressurization (SSD) system proposed for the office/retail portion of the Anderson Cleaners building. [Note: The office/retail area is located in the northern-most portion of the Anderson building (i.e., the portion of the building in proximity to Hunt Road).] Following a review of the test results generated during this study, a work plan describing the installation requirements of the SSD system will be prepared and submitted to the NYSDEC.

Background

Based on the studies completed to date, tetrachloroethene (PCE) and its associated breakdown products appear to be present within the subsurface soil and groundwater in proximity to, and potentially beneath, a portion of the Anderson building. As a precautionary measure to prevent vapors related to these contaminants from entering the office/retail space portion of the Anderson building, a vapor mitigation system (i.e., a SSD system) constructed in general accordance with the New York State Department of Health (NYSDOH) document titled "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", dated October 2006 (i.e., the NYSDOH Guidance Document) is proposed. To evaluate design requirements of a SSD system, the following scope of work is proposed to measure the suction field and airflow capacity through the sub-slab material.

Scope of Work

Testing will be conducted in general accordance with Section 4.2 of the NYSDOH Guidance Document. Prior to conducting the penetrative testing, the floor surface will be examined for material defects and potential leaks that will diminish the effectiveness of the testing and therefore, the SSD system. Subsequently, multiple vacuum and vacuum monitoring points will be installed through the building floor slab using a rotary pneumatic hammer equipped with a ¾-inch diameter bit. To the extent possible, these points will be installed in likely future installation points. After a point is drilled the opening will be "sealed" with a rubber or silicon stopper connected to a section of polyethylene tubing. If the point is being used as a vacuum point, the tubing will be connected to a vacuum source. If the point is being used as a vacuum monitoring point, the tubing will be connected to a digital manometer.

Initially, one vacuum point will be installed in a central location, with vacuum monitoring points installed at a distance along the perimeter of the space. A known vacuum will be applied to the vacuum point and differential pressure readings will be collected (using a digital manometer) at various points along the perimeter. If no pressure change is registered or the pressure differential is deemed insufficient, then these initial points will be plugged and new monitoring points will be installed closer to the vacuum point. The expected radius of influence of each vacuum point will be determined by repeating this process at different vacuum points.

Upon completion of the testing program the vacuum and monitoring points will be repaired with urethane caulk applied over a closed cell backer rod.

The data obtained from the above study will be used to prepare a work plan that will describe the installation requirements for the proposed system. This work plan will be prepared in general accordance with the NYSDOH Guidance Document and it will be provided to the NYSDEC for review by prior to installation of the system.

Should you have questions or require further information, please feel free to call. Upon NYSDEC approval, the work described herein will be scheduled and DAY will contact you prior to commencing with the proposed field activities.

Very truly yours,
Day Environmental, Inc.

Raymond L. Kampff
Associate

RLK/s

cc: M. Lyons

DJG0029