GEI Consultants

April 5, 2019

Consulting
Engineers and
Scientists

Mr. Joseph Jones
New York State Department of
Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233

Re: 30 Stewart Avenue – Site No.: C152243
Huntington, New York
Soil Vapor and Indoor Air Testing Work Plan

Mr. Jones:

Based on our review of the New York State Department of Environmental Conservation (NYSDEC) comment letter dated March 14, 2019, it is GEI Consultants, Inc., P.C.'s (GEI) understanding that the NYSDEC and the New York State Department of Health (NYSDOH) are requiring a Soil Vapor Investigation (SVI) of the newly constructed on-site building at the 30 Stewart Avenue site. The objective of the SVI is to evaluate the effectiveness of the soil vapor barrier installed during the construction of the on-site building as well as determine if, after remediation of the site, soil vapors are still present in on-site soils.

In order to determine the indoor air quality, GEI's proposes to place two passivated steel sampling canisters, in the basement level of the on-site building. Sample collection intakes will be located to approximate the breathing zone for building occupants (i.e., three feet above the floor level).

For the soil vapor investigation, GEI proposes to install two soil vapor sampling points along the exterior wall of the building including passivated steel sampling canisters, one at the southwest corner and one at the northeast corner One ambient air sample will be obtained from the exterior area of the building. All samples will be collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006). Conditions in the field may require adjustment to the sampling locations. The soil vapor probes will be installed to a depth of 5 feet below grade.

The soil vapor points will be installed using 1-inch diameter steel rods advanced with either a hammer drill or slide-hammer. Once driven to depth, the rods are removed leaving only the tip and the tubing. A surface seal will be placed using an impermeable clay seal installed within the last 6-inches of the probe-hole annulus from surface grade level. The vapor well will be purged using a hand pump or equivalent device after installation.

All samples, indoor, ambient air and soil vapor (a total of five samples), will be collected in 6-liter Summa canisters which have been certified clean by the laboratory and analyzed by using USEPA

110 Walt Whitman Road, Suite 204
Huntington Station, New York 11746
631.760.9300 fax: 631.760.9301

Method TO-15. Flow rate of both purging and sampling will not exceed 0.2 L/min. Sampling will occur for the duration of 4 hours. A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling height and/or depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone, and chain of custody protocols.

GEI will prepare a report detailing the field activities, including the collection of the samples and results of the sampling. The report shall include report summary tables of the analytical data, in addition to the original laboratory results, and a sample location plan.

If you have any questions or would like to discuss this information, please feel free to contact Gary Rozmus at (631) 479-3510 or Ed Bradshaw at (631) 759-2977.

Sincerely,

GEI CONSULTANTS, INC., P. C.

Gary A. Rozmus, P.E.
Senior Consultant

Edward Bradshaw
Senior Practice Leader