

FILE

PAUL D.G. MILLER/CONSULTING HYDROGEOLOGIST
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May 8, 2013

Vermont Agency of Natural Resources
Department of Environmental Conservation
Waste Management & Prevention Division
Underground Storage Tank Section
1 National Life Drive – Davis 1
Montpelier, VT 05620-3704
Attn: Ms. Sue Thayer

RE: UST Closure Report
Wilmington Town Garage (Facility ID #4645515)
40 Beaver Street
Wilmington, VT

Dear Ms. Thayer:

This letter report summarizes the findings from the UST Investigation performed by Paul D.G. Miller, Consulting Hydrogeologist (Miller) at the above-referenced property (“the site”).

On April 24, 2013, Miller was contacted by Mr. Scott Murphy, Town Manager of Wilmington, VT, in regard to the planned removal of two (2) 2,000-gallon and one (1) 1,000-gallon underground storage tanks (USTs) located at the Wilmington Town Garage located at 40 Beaver Street, Wilmington, VT (see enclosed Site Location Map, Site Map, and Underground Storage Tank and Piping Closure Form). The two (2) 2,000-gallon USTs are permitted with the VT DEC as Tank #1997-1 (containing gasoline) and Tank #1997-2 (containing diesel) under Facility ID #4645515. The age of these two (2) USTs is sixteen (16) years. The one (1) 1,000-gallon UST, containing #2 fuel oil for heating the garage building, was not permitted with the VT DEC due to the size (<1,100 gallons) of the UST. The age of this UST is unknown.

On May 2, 2013, the three (3) USTs were excavated through the use of an excavator operated by workers of the Town of Wilmington Highway Department. The two (2) permitted USTs were each twelve (12) feet long and sixty-four (64) inches in diameter for a total volume of 2,000 gallons. These USTs were oriented in a northwest/southeast direction and located off the south side of the garage building (see Site Map). These USTs consisted of double-walled steel construction. The USTs and their associated piping were found to be competent and in excellent condition with no rusting evident. No holes or points of potential release were noted anywhere in these UST systems. Also, no holes or points of potential release were noted anywhere in the piping connected to the pump island which served both of these USTs.

The one (1) #2 fuel oil UST was ten (10) feet nine (9) inches long and four (4) feet in diameter for a total volume of 1,000 gallons. The UST was oriented in a northwest/southeast direction and located off the north side of the garage building (see Site Map). The UST consisted of single-walled steel construction. The fill and vent piping also consisted of single-walled steel. The oil supply and return lines from the UST into the site building consisted of 3/8" diameter copper tubing. The UST and its associated piping were found to be competent and in good condition with moderate rusting evident. No holes or points of potential release were noted anywhere in the UST system.

All the USTs were cleaned by Miller. A total of approximately thirty-five (35) gallons of diesel and approximately fifteen (15) gallons of #2 fuel oil was removed from the diesel and #2 fuel oil USTs. This containerized diesel and #2 fuel oil was taken by HNB, Inc. of Bennington, VT for use in a waste oil burner. Approximately ninety-five (95) gallons of gasoline was removed from the gasoline UST and will be reused in vehicles operated by HNB, Inc. All the USTs will be further dismantled (cut and scraped) by HNB, Inc. at a later date and the resulting steel will be transported off-site for subsequent recycling.

UST excavation "A" was dug to a depth of approximately eight (8) feet. UST excavation "B" was dug to a depth of approximately six (6) feet. During the excavation of each UST, soils were containerized for field screening through headspace analysis. The soil was analyzed for Volatile Organic Compounds (VOCs) with a Thermo Environmental Model 580B Organic Vapor Meter photoionization detector (PID). The PID was calibrated with Isobutylene on the day of the excavation (May 2, 2013) prior to the performance of field-testing. For headspace analysis, soils were placed within plastic ziplock bags and filled approximately 1/2 to 3/4 to allow an area in the bag for soil vapor to accumulate. The sensor tip of the PID was then inserted into the bag and the VOC measurement taken. Soils were screened from around and underneath each UST and along the fill and vent piping of each UST. Soils were screened from around and underneath each UST at three (3) foot lateral intervals and at every two (2) feet at depth. Soil was also screened from around and underneath each length of piping from the gasoline and diesel USTs to the pump island which served them, as well as underneath the pump island.

Soils encountered around the gasoline and diesel USTs consisted of a tan/gray fine to coarse SAND (backfill). Soils encountered around the #2 fuel oil UST consisted of a brown fine to medium SAND, some coarse sand (backfill). Headspace soil screening for each UST showed that no VOC concentrations were present in any of the samples from either excavation pit. All samples registered 0.0 parts per million. Additionally, no visual soil staining or olfactory odors of gasoline, diesel, or oil in any of the soil were noted. Since no soil contamination was present, no soil samples were taken for subsequent laboratory analysis.

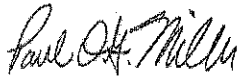
No groundwater was encountered at the site. Groundwater flow within the site area is expected to be to the southwest toward Beaver Brook which is the closest surface water body, is located approximately 500 feet southwest of the site, and flows northwest.

No bedrock was encountered at the site. Bedrock in the area is believed to occur at depths greater than 20 feet below the ground surface. The bedrock geology of the site area has been mapped as the Mount Holly Complex which is described as a mainly fine- to medium-grained biotitic gneiss.

The site and general site area are served by the Wilmington municipal water supply. There appear to be approximately four (4) known individual water supply wells located within a 0.5 mile radius of the site. There appear to be no known public water supply wells located within a 0.5 mile radius of the site. No environmental sensitive receptors appear to have been impacted by the site.

If you have any questions or comments regarding this report, please contact me at (802) 440-1559 or (575) 644-6911. Thank you.

Sincerely,



Paul D.G. Miller
Hydrogeologist

Enclosures: Site Location Map, Site Map, and UST & Piping Closure Form

cc: Scott Murphy, Town of Wilmington, P.O. Box 217, Wilmington, VT 05363