



# State of Vermont

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April 6, 1999

RUSSELL KINAMAN  
22 WILDWOOD DRIVE  
ESSEX JUNCTION, VERMONT 05452

RE: Site Management Activity Completed (SMAC), Kinaman Residence, SMS Site #98-2508  
Essex Junction

Dear Mr. Kinaman:

The Sites Management Section (SMS) has reviewed the March 22, 1999 report titled, "*Hydrogeologic Subsurface Investigation of the Russell Kinaman Residence, 22 Wildwood Drive, Essex Junction, Vermont*" prepared by Kent Koptiuch Geo-Environmental Services for work conducted at the above referenced site. The SMS has also reviewed information contained in the site file. With this information, the SMS can now make the following conclusions:

- On September 10, 1998, one 2,000 gallon heating oil underground storage tank (UST) was closed in place at the Kinaman residence in Essex Junction. The residence is a two-storey structure with walk out garage and basement on a poured concrete slab. The tank was closed in place since it is partially under the garage slab in the driveway.
- During the UST closure, soils above the UST near the fill pipe were found to be contaminated with petroleum compounds. The tank itself had been out of service for 11 years and contained water. Upon cleaning in place, active pin hole leaks were observed. Groundwater was entering the tank at approximately 1 cup per minute. Because the tank was closed in place, no soil samples were collected from under the tank. Groundwater entry into the tank was taken as evidence of potential groundwater contamination. Additional investigation was required by the SMS and four monitoring wells were installed on site to monitor contamination to the groundwater.
- Soil headspace screened by photoionization detector (PID) during installation of monitor well MW-1 showed 0.1 to 0.2 parts per million (ppm) volatile organic compounds (VOC). No VOCs were detected in the soil headspace of the other 3 monitor wells.
- The groundwater samples collected from monitor wells MW-1, -3, and -4 showed

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detectable concentrations of toluene, xylene, trimethylbenzene, and naphthalene. No exceedences of the Vermont Groundwater Enforcement Standards were recorded. MW-2 was dry and was not sampled.

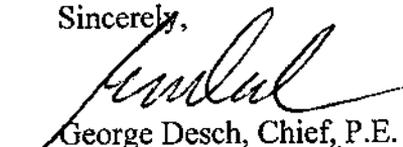
- The area is served by a municipal water supply, which is not at risk from contamination from this site. The nearest down-gradient residence is reported to be 1/4-mile away. The nearest surface water is an un-named stream approximately 1/8-mile down-gradient. No unacceptable risk to human health and the environment is present due to any residual contamination remaining in the ground from the removed UST.

Based on the above, the SMS is assigning this site a Site Management Activity Completed (SMAC) designation. This SMAC designation does not release Russell Kinaman of any past or future liability associated with the petroleum contamination onsite. It does, however, mean that the SMS is not requesting any additional work in response to the 1998 UST closure.

If the monitoring wells are no longer used or maintained, then they must be properly closed to eliminate a possible conduit for contaminant migration into the subsurface. This closure typically involves filling the wells with a grout material to prevent fluid migration in the borehole. Specific requirements for well closure are outlined in Section 12.3.5 in Appendix A of the Vermont Water Supply Rule-Chapter 21.

Please feel free to call with any questions.

Sincerely,



George Desch, Chief, P.E.  
Sites Management Section

CC: Essex Junction Selectboard  
Essex Junction Health Officer  
DEC Regional Office  
Kent Koptiuch, KSK GeoS, Inc.