

BB ✓



State of Vermont

10-215-000

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
RELAY SERVICES FOR HEARING IMPAIRED
1-800-253-0191 TDD>VOICE
1-800-253-0195 VOICE>TDD

AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation
WASTE MANAGEMENT DIVISION
103 South Main Street / West Building
Waterbury, Vermont 05671-0404
(802) 241-3888
FAX (802) 241-3296

November 18, 2004

DIANA GRANT
99 RICHARDSON LANE
STOWE, VERMONT 05672

RE: Sites Management Activity Complete, Grant Residence, SMS Site #2004-3184
Stowe, Vermont

Dear Ms. Grant:

The Sites Management Section (SMS) has reviewed the November 18, 2004 Ross Environmental Associates (REA) report titled, "*Groundwater Quality Monitoring Report and Soil Removal – October 2004, Grant Residence*" and the SMS site file. Based on this review, the SMS has determined the following:

- During the December 12, 2003 removal of one 500 gallon fuel oil underground storage tank (UST) contaminated soil was observed. Volatile organic compounds (VOCs) were measured by a photoionization detector (PID). PID readings of the soils at the UST ranged up to 278 parts per million (ppm). The soil was observed to be silty clay. Groundwater was encountered in the tank pit at a depth of 3.5'. Contaminated soils were backfilled. REA recommended that an Expressway Site Investigation be performed.
- On February 10, 2004, four groundwater monitor wells were installed in order to evaluate potential contamination related to the UST. Fine sand and silt were observed from grade to 10' below the ground surface. No above background PID readings or petroleum odors were noted during monitor well installation.
- On February 17, MW-1 to -4 were sampled for VOCs via EPA 8021B and total petroleum hydrocarbons (TPH) by EPA 8015DRO. The site water supply well was sampled for VOCs by EPA 524.2. No contamination was detected in any of the water samples.
- The Grant water supply well down gradient of the former UST location and soils and groundwater near the former tank location were identified as sensitive receptors. Two shallow water supply springs for the neighboring Snow and Bourdeau properties are also located on this property. No other at-risk sensitive receptors were identified. Excavation of the petroleum contaminated soil was recommended to protect the near by water supplies and was approved by the SMS.

Over

- On October 22, MW-1 to -4, the Grant, Snow, and Bourdeau water supply wells located on the Grant property were sampled for VOCs. No contamination was detected.
- The basement air in the Grant residence was screened by PID and no VOCs were detected.
- On October 26, 12 yds³ of petroleum contaminated soil were excavated and disposed of at the ESMI facility in Loudon, New Hampshire. Confirmatory soil sampling was performed and indicated that the bulk of the contaminated soil had been removed with only toluene (38.6 µg/kg) being detected in a sample from the bottom of the excavation.
- Residual contamination in the soil associated with the UST removal was shown to be confined to the subject property. The majority of this was removed by excavation. No unacceptable risk to human health and the environment is present due to any residual contamination remaining in the ground from the removed UST.
- Monitor well MW-1 was destroyed during excavation. The remaining three monitor wells were properly closed to eliminate possible conduits for contaminant migration into the subsurface. This closure involved removal of the protective well cover, filling the wells with a grout material to prevent fluid migration in the borehole, and finishing to the surrounding grade.

Based on the above, the SMS is assigning this site a Site Management Activity Completed (SMAC) designation. This SMAC designation does not release you, Ms. Grant, 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 December 2003 UST removal.

Please feel free to call with any questions.

Sincerely,



George Desch, P.E.

Chief, Sites Management Section

CC: Stowe Selectboard
Stowe Health Officer
DEC Regional Office (via electronic mail)
Juliette Hancock, REA (via electronic mail)