

State of Vermont
Department of Environmental Conservation
Waste Management Division
103 South Main Street/West Building
Waterbury, VT 05671-0404
(802) 241-3888
FAX (802) 241-3296

May 19, 2008

Ms. Christine Cassel
66 Sugar Maple Drive
Swanton, VT 05488

RE: Site Management Activity Completed Designation, Former Peyratt Residence
66 Sugar Maple Drive, Swanton, Vermont (Site #97-2148)

Dear Ms. Cassel:

The Vermont Department of Environmental Conservation, Sites Management Section (SMS) has had the opportunity to review this site for a Site Management Activity Completed (SMAC) designation. Based on this review, a SMAC designation is appropriate for this site. This decision is described below.

This site was opened on January 31, 1997 following the release of approximately 100-150 gallons of No. 2 heating oil from the filter assembly of a 275-gallon above ground storage tank (AST) located in the basement. The alleged release volume was based solely on historical fuel usage, and the follow-up response indicated that the release may have been significantly smaller. The residence was not occupied prior to the release or during the cleanup efforts. Twin State Environmental Corporation, a private consultant, was retained by R.L. Vallee/Ultramar to investigate and cleanup the release. Bedrock was located between 4 and 12 inches below the basement slab. The release appeared to drain into a basement sump that was in direct contact with the bedrock. The drain line connected to the footing/perimeter drain which daylights west of the residence. Investigations indicated that only minimal oil volume flowed through the drain and discharged to ground surface, as confirmed by soil/sediment samples from the outfall. Fifteen soil borings were advanced to investigate the release; four through the basement slab and eleven outside the residence. The data indicated that contamination to the thin soil layer between the basement slab and bedrock was not significant laterally. If there was a larger release, then most of the oil appeared to have entered the bedrock and was not recoverable, as only minimal oil was trapped beneath the slab of the utility room for the AST.

In February 1997, a soil vapor extraction (SVE) system was installed that included six extraction wells (four sub slab basement wells and two exterior to the residence); the exterior wells were abandoned almost immediately due to no vapors being recovered. The SVE system was installed to both remove petroleum from the environment and to mitigate the potential for vapor impacts to the residence. The system was operated for 45 days until petroleum vapor levels were not detected via a photoionization detector. The system was left to idle for 18 days to ensure that vapors did not build up again, and upon restarting no significant vapors were found. Only about 1.7 gallons of oil was extracted via the SVE system. The SVE extraction points were appropriately decommissioned and the system dismantled. In March 1997, indoor air samples were collected from the basement and first floor. Twin State Environmental Corporation reported that the findings were below published permissible exposure levels.

(Over)



Ms. Christine Cassel

May 19, 2008

Page 2 of 2

A bedrock drinking water well for the residence is located several hundred feet west of the residence. Samples from the water supply collected on February 7, 2007, March 12, 2007 and September 16, 2007 were submitted for analysis of petroleum constituents using EPA Method 524. No contaminants were detected in any of the samples.

Porous materials that were in contact with the petroleum were removed or sealed with an impermeable sealant, and the home was professionally cleaned to reduce residual petroleum odors.

Based on the above, the SMS has determined that this site is eligible for a SMAC designation. The following conclusions have been made by the SMS:

- there is no longer a source of heating oil contamination with the repair of the AST filter assembly;
- no petroleum contamination was detected in the bedrock drinking water supply over three sampling events;
- indoor air testing did not indicate significant petroleum vapors;
- any residual soil and groundwater contamination that remained following cleanup is limited to the immediate area of the former heating oil release and will be naturally attenuated over time; and
- the residual contamination does not pose an unacceptable risk to human health or to the environment.

Based on the above, the No. 2 heating oil contamination no longer poses an unreasonable risk to human health and safety or to the environment. Therefore, the SMS is assigning this site a SMAC designation. This designation does not release R.L. Vallee or Ms. Christine Cassel of any past or future liability associated with any residual heating oil contamination originating from this release. It does, however, mean that the SMS is not requesting any additional work at this time. If you have any questions or comments, please feel free to contact either me, or Matt Moran, at 802-241-3888.

Sincerely,



George Desch, Chief
Sites Management Section

cc: Ron Rushford, R.L. Vallee, Inc.