

State of Vermont
Department of Environmental Conservation
Waste Management Division
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October 26, 2009

GEORGE MCPHAIL
OFFICE OF FACILITY SERVICES
84 SOUTH SERVICE RD
MIDDLEBURY COLLEGE
MIDDLEBURY, VERMONT 05753

RE: Sites Management Activity Complete, 3 College St., Middlebury College, SMS Site #98-2496
Middlebury, Vermont

Dear Mr. McPhail:

The Sites Management Section (SMS) has reviewed the July 2009 report prepared by KAS, Inc. for ground water sampling performed on May 20, 2009. The SMS also reviewed information contained in the site file and, with respect to the release associated with the August 1998 underground storage tank removals makes the Sites Management Activity Complete (SMAC) determination described further below:

- On August 13-14, 1998 one 2,000 gallon and one 550 fuel oil underground storage tank (UST) were removed from the Middlebury College property at 3 College St. in Middlebury.
- During the UST removals, soils surrounding the 2,000 gallon UST were found to be contaminated with petroleum compounds at concentrations above SMS guideline levels, as measured with a photoionization detector (PID). The maximum PID value was 160 parts per million (ppm) at 6' depth. Soil staining, fuel oil odors, and a small amount of free product oil were reported. One hole in the UST was noted. Groundwater was not encountered during the UST removal. Additional investigation of the UST removal was required by the SMS.
- No PID readings above 10 ppm were noted at the adjacent 550 gallon UST, which had been out of service. No further investigation of this tank removal was required.
- On March 10, 1999 three groundwater monitor wells were installed in order to evaluate potential contamination to the groundwater. No contamination was detected using a PID to test soil samples collected from monitor well MW-1. Elevated PID readings and odors were noted during the installation of MW-2 (99 ppm) and MW-3 (106 ppm).
- On March 26, 1999 groundwater samples were collected for laboratory analysis of volatile organic compounds (VOCs). No contamination was detected in MW-1. MW-3 contained naphthalene and trimethylbenzene over the Vermont Groundwater Enforcement Standard (VGES). MW-2 contained 6" of free product.



Over

- Quarterly groundwater monitoring and bi-weekly manual free product recovery were instituted to manage the contamination found on site. 46 site visits were made to recover product and monitor groundwater contaminant levels. The majority of the product was removed in 1999 and 2000, and as recovery rates decreased, fewer site visits occurred.
- On May 20 2009, no free product was found in monitor well MW-2. Recoverable amounts of product had not been noted since October 2005. A total of 6 gallons of product were removed from this monitor well from July 1999 through October 2005. A water sample from MW-2 was analyzed for VOCs and none were detected. Sampling of the other two monitor wells had been previously discontinued due to no detectible contamination.
- No near by surface waters or wetlands were identified. The adjacent site building has municipal water, which is not at risk of contamination from this site. The former tank location is a paved driveway and there is no contact risk with groundwater or soil. The basement of the building was screened with a PID and no VOCs were detected. No other sensitive environmental receptors were identified. No unacceptable risk to human health and the environment is present due to any residual contamination remaining in the ground from the removed UST.
- The three groundwater monitoring 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 grout 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 designation. This SMAC designation does not release Middlebury College, 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 August 1998 UST removal from this location.

Please feel free to call with any questions.

Sincerely,



Chuck Schwer
Program Manager, Sites Management Section

CC: Middlebury Selectboard
Middlebury Health Officer
DEC Regional Office (via electronic mail)
Tim Kelly, KAS, Inc. (via electronic mail)