



## State of Vermont

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August 12, 2003

JIM DANYOW  
CHAMPLAIN CONSTRUCTION  
RD 4 BOX 2180  
MIDDLEBURY, VERMONT 05753

RE: Site Management Activity Completed, Champlain Construction, SMS Site #98-2340  
Middlebury, Vermont

Dear Mr. Danyow:

The Sites Management Section (SMS) has reviewed the April 18, 2003 report titled, "*Annual Groundwater Monitoring Report for the Champlain Construction Facility, Middlebury, Vermont, SMS #98-2340*" prepared by Griffin International 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 January 7 and 12, 1998 two 10,000 gallon diesel fuel, two 10,000 gallon gasoline, and one 5,000 gallon gasoline underground storage tanks (UST) were removed from the Champlain Construction Company property on Route 7 in Middlebury.
- All 5 USTs were removed from a common tank pit. During the UST removals, soils under the USTs were found to be contaminated with volatile organic compounds (VOCs) at concentrations above SMS guideline levels, as measured with a photoionization detector (PID). The maximum PID reading was reported to be 58 parts per million (ppm). Petroleum odors were also reported. Groundwater was encountered at 8'. Soils were reported to be coarse to fine gravel with sand. A clay layer was observed at 9.5'. No evidence of gross groundwater contamination (free product or sheens) was observed during the UST removal. Additional investigation of the UST removals was required by the SMS.
- On November 3, 1999 four groundwater monitor wells were installed on site to evaluate potential contamination to the groundwater. The monitor wells ranged from 6 to 15' in depth. Sand and gravel were found from the surface to 6' to 10' at different locations, a clay layer was encountered below the sand. The maximum PID reading was 38 ppm in MW-1.
- On November 8 the four monitor wells were sampled and MW-1 contained VOCs consisting of 1,3,5-trimethylbenzene (147.2 µg/L), 1,2,4-trimethylbenzene (267.8 µg/L) and naphthalene (142.7 µg/L) above the Vermont Groundwater Enforcement Standards (VGES). MW-4 contained VOCs

over

below the VGES. The monitor wells were sampled a total of 4 times since then. Contaminant concentrations decreased steadily in MW-1 until only 1,3,5-trimethylbenzene (6.3 µg/L) was above the VGES. Other VOCs were detected below the VGES in MW-1, -2-, and-3.

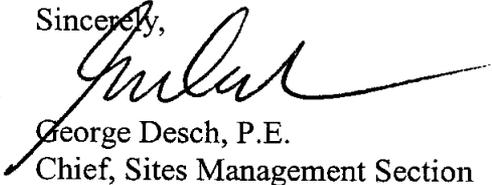
Groundwater was shown to flow southwest at this site. The Middlebury Department of Public Works garage (SMS #98-2362) borders the site to the north. At this garage a more extensive investigation shows a more complicated flow pattern with multiple groundwater divides. Contamination from this site may have influenced the Champlain Construction site.

- Residual contamination in the soil and groundwater associated with the UST removal was shown to be confined to the subject property. The nearest surface waters are two down gradient storm water retention ponds. Both were inspected for sheens and have been sampled for VOCs. None were detected. No other sensitive environmental receptors were identified.
- The subject buildings and area are served by a municipal water supply, which is not at risk of contamination from this site. The buildings are built on grade or slab on grade and at minimal risk of soil vapor infiltration. No unacceptable risk to human health and the environment is present due to any residual contamination remaining in the ground from the removed USTs.
- The four 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 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 the Champlain Construction Company, Inc., 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 January 1998 UST removals.

Please feel free to call with any questions.

Sincerely,



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

CC: Middlebury Selectboard  
Middlebury Health Officer  
DEC Regional Office (BY ELECTRONIC MAIL)  
Rob Danckert, Griffin International (via electronic mail)