



State of Vermont

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Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
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February 14, 2005

THE ORVIS COMPANY, INC.
ATTN: BRUCE WOODRUFF
HISTORIC ROUTE 7A
MANCHESTER, VERMONT 05254

RE: The Orvis Company, SMS Site #77-0057, Manchester, Vermont

Dear Mr. Woodruff:

The Sites Management Section (SMS) has reviewed the February 7, 2005 water quality test results from the Orvis fish pond well. The SMS has also reviewed information contained in the site file. With this information, the SMS can now make the following conclusions:

- The Orvis Company was the site of a spill of trichloroethane (TCA) in the early 1980s. A soil and groundwater investigation was conducted and a groundwater treatment system was operated for several years. This was followed by a groundwater monitoring program. This ended in 1989. The EPA Superfund Removals Program conducted an investigation and issued a "No Further (federal) Remedial Action Planned (NFRAP)" decision on July 14, 2000.
- One of the requirements of the Act 250 permit for the new water supply well for the retail store and trout pond at the Orvis Company was that this well be sampled for 5 years. The purpose of the monitoring requirement was to ensure that pumping groundwater from this water supply well did not pull remnants of the tetrachloroethane (TCA) spill into the bedrock aquifer. This well was sampled in April 1999, June 1999, June 2002, October 2003, and January 2005. No TCA or any other volatile organic compounds (VOCs) were detected on these occasions.
- During the October 2, 2001 removal of one 6,000 gallon fuel oil underground storage tank (UST) contaminated soil was observed. VOCs were measured by a photoionization detector (PID). PID readings of the soils at the UST ranged up to 16 parts per million (ppm). The soil was observed to be sand and gravel. Groundwater was encountered in the tank pit at a depth of 5'. A heavy sheen and fuel oil emulsion were observed on the groundwater surface. Contaminated soils were backfilled.
- On December 4, 2001, four groundwater monitor wells were installed in order to evaluate potential contamination related to the UST. Coarse sand and gravel fill overlying fine sand were observed

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from grade to 12' below the ground surface. Bedrock was not encountered. No above background PID readings or petroleum odors were noted during monitor well installation.

- On December 4, MW-1 to -4 were sampled for VOCs by EPA 8260 and total petroleum hydrocarbons (TPH) by EPA 8015DRO. Chloroethane was found in the sample from MW-1 at 6.8 $\mu\text{g/L}$, which has no Vermont Groundwater Enforcement Standard. No other target were detected in this or the other three monitors wells. TPH was not detected in any sample.
- The site water supply well is approximately 200' northeast up gradient of the former tank location. Two ponds are also 200' northeast of the former UST location. The former UST location is in a parking lot and the nearest building is approximately 30' up gradient. Residual contamination in the soil and groundwater associated with the UST removal was shown to be confined to the subject property. 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 four groundwater monitor wells installed for the UST removal investigation and seven monitor wells for the TCA investigation 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 Orvis Company of any past or future liability associated with the TCA or petroleum contamination onsite. It does, however, mean that the SMS is not requesting any additional work in response to the 1980s TCA spill and October 2001 UST removal. Please feel free to call with any questions.

Sincerely,


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

CC: Manchester Selectboard
Manchester Health Officer
Eric Urch, Heindel & Noyes (via electronic mail)
DEC Regional Office (via electronic mail)
Warren Foster, District 8 Act 250 Coordinator (via electronic mail)