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Waste Management Division  
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March 5, 2009

RICHARD BROWNE  
CHAMPLAIN OIL COMPANY  
PO Box 379  
BRADFORD, VERMONT 05033

RE: Sites Management Activity Complete, Roland's Mini Mart, SMS Site #1997-2295, East Barre, Vermont

Dear Mr. Browne:

The Sites Management Section (SMS) has reviewed the June 19, 2007 report titled, "*Spring 2007 Site Monitoring Report, Roland's Mini Mart, East Barre, Vermont*" prepared by Environmental Compliance Services (ECS) for groundwater monitoring conducted at the above reference property on April 17, 2007. The SMS also reviewed the site file and the August 23, 2007 "*Underground Storage Tank Closure Assessment*", prepared by KAS, Inc. which documented the closure and replacement of three USTs performed in July 2007. With this information, the SMS can now make the following conclusions:

- During the September 15, 1997 removal of two 4,000 gallon gasoline and one 500 gallon fuel oil underground storage tank (UST), and the pipe replacement for one 6,000 gallon diesel fuel UST contaminated soil was observed. Volatile organic compound (VOC) measurements of the soil ranged up to 140 parts per million (ppm) as measured with a photoionization detector (PID). Sand backfill around the tanks was observed; bedrock was encountered ~0.5' below the bottom of the tanks. Bedrock outcrops exist on site. Groundwater was encountered in the tank pit on top of bedrock. Confirmatory soil and groundwater samples were collected from the tank pit. MTBE, xylene, toluene, and 1,3,5-trimethylbenzene were found in the water sample below the Vermont Groundwater Enforcement Standards (VGES). Various petroleum compounds were found in the soil sample from under the Super Grade UST with xylene (47,300 µg/kg) being the highest level contaminant found. Contaminated soils were backfilled. Additional site investigation was required by the SMS.
- On April 30, 2003 two monitor wells were installed southwest and downhill of the building and former UST locations in order to evaluate potential contamination. Sand and silt were observed from grade to 5 to 7' below the ground surface, where bedrock was encountered. No elevated PID readings or petroleum odors were noted during monitor well installation.
- On April 30, 2003 MW-1 and -2 were sampled for VOCs via EPA 8021B. MW-2 contained MTBE (148 µg/L) above the VGES and MW-1 contained MTBE below the VGES. Two groundwater seeps were identified west of the site building and the northern USTs. Soil samples from these seeps were screened by PID. VOC levels of 1.6 and 4.5 ppm were observed. One of the seeps is adjacent to a drainage pipe and iron staining and sheens were reported.

Over



- On June 2, 2003 the Hutchins & Perreult Granite water supply well was sampled for VOCs using EPA 524.2. No VOCs were detected. Hutchins & Perreult Granite uses bottled water for drinking, although the well has been used as potable water. The site and surrounding area are served by municipal water.
- Long term seep and monitor well sampling were required by the SMS. Low levels of contamination, primarily MTBE above and below the VGES were detected in the two monitor wells and seeps in three sample rounds from November 2003 to April 2005. These levels generally decreased over time. On April 17, 2007 both monitor wells had no detectable contamination; the seeps were dry. The site was proposed for Sites Management Activity Complete designation pending monitor well closure.
- On July 26, 2007 limited soil contamination was reported during UST replacement. Contamination was limited to approximately 2 yd<sup>3</sup> of soil that had been wrapped in landscape fabric, buried between two of the USTs and reportedly left over from the previous UST removal. This soil was excavated and stockpiled. No other contamination requiring investigation was reported in the UST closure assessment.
- The Jail Branch stream is the nearest surface water ~225' south of the site. No sheens or stressed vegetation were noted. Residual contamination in the soil and groundwater associated with the UST removals was shown to be confined to the subject property. No other sensitive 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 USTs.
- The two monitor wells were destroyed during the 2007 UST replacement. KAS reported that the 2 yd<sup>3</sup> soil stockpile was monitored until PID readings of soil samples were all below 1 ppm and there were no visual or odor indications of contamination. KAS reported the Champlain Oil Company personnel will thin spread the soil on site once weather permits this<sup>1</sup>. The SMS approves this action and reminds the Champlain Oil Company that off site soil disposal is not permitted unless this occurs at a permitted facility or has been tested in a lab and meets applicable standards for off site disposal.

Based on the above, the SMS is assigning this site a Site Management Activity Completed designation. SMAC designation does not release the Champlain Oil 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 1997 UST removals. Please feel free to call with any questions.

Sincerely,

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

CC: E. Barre Selectboard ✓  
E. Barre Health Officer ✓  
DEC Regional Office (via electronic mail) ✓  
Peter Schuyler, KAS, Inc. (via electronic mail) ✓  
Laura Woodard, ECS, Inc. (via electronic mail) ✓

<sup>1</sup> 2/12/09 e-mail from Myles Gray, KAS to Gerold Noyes, SMS site manager.