
ATTACHMENT 12

GROUNDWATER VULNERABILITY ASSESSMENT

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Groundwater Vulnerability Assessment 125 Main Street Site Brownfield Cleanup Program Application

POTENTIAL VULNERABILITY OF GROUNDWATER TO CONTAMINATION

The volatile organic compound (VOC), acetone, was identified in groundwater, Petroleum-related semi-volatile organic compounds (SVOCs), and metals were detected in subsurface soil samples during a limited site investigation conducted in 2007. In addition, multiple NYSDEC Spill files have been recorded for operations on-Site. Attachment 5 includes a summary of the previous environmental investigations and historic records.

Currently, there are no known deed restrictions on the use of groundwater at the Site. Municipal water is available to the Site and all properties in the area. The municipal water is supplied by the Buffalo Water Authority, and is derived from Lake Erie and the Niagara River.

GROUNDWATER FLOW

Based on information from the previous limited environmental investigations, groundwater was typically encountered between sixteen (16) to eighteen (18) feet below ground surface (fbgs). The Site is located approximately 800-ft east of the Buffalo River and 0.75-miles east of the Lake Erie. Local Site groundwater is generally estimated to flow in a western direction.

RECOMMENDATIONS

Further work is required to investigate groundwater quality data. Additional wells to assess groundwater flow patterns and water quality will be needed.