

From: Henderson, David <Dave.Henderson@aecom.com>
Sent: Tuesday, April 25, 2023 9:49 AM
To: Beggs, Tauren R - DNR; GravelPit
Subject: Former Town of Newton Pit, BRRTS #02-36-000268 - Cap Penetration Request
Attachments: Figure 1_ProposedEXwells2.pdf

Tauren,

AECOM, on behalf of the City of Manitowoc, recently submitted to the Department an *As-Built Documentation, Operation & Maintenance Plan, and Cap Maintenance Plan* report for the groundwater treatment pond and the engineered cap over the Western Source Area. As required by the *Draft Western Source Area Cap Maintenance Plan*, Appendix E of the report, we are requesting approval from the Department to penetrate the engineered cap for the purpose of installing extraction wells.

This is the first step for construction of the Engineered Treatment System (i.e., soil vapor extraction (SVE) with LNAPL recovery). The conceptual design for the Engineered Treatment System was presented to the Department as part of our remedial action options report, which was approved by the Department on July 7, 2017.

AECOM is proposing to install eight dual purpose (i.e., SVE and LNAPL recovery) wells, see attached Figure 1. The wells will be 4-inch diameter with stainless steel V-wire, 20-slot, screens with stainless steel casings, finished with Sch 80 PVC casings to facilitate future construction of the wellhead. Drilling for installation of the wells will require hand-excavation of the 2-foot thick vegetated cap, hand-cutting of the geomembrane/bentonite cap, then advancement of the soil boring using sonic drilling methods on a tracked rig. At completion, each well will be temporarily sealed at the geomembrane level with bentonite then finished above grade. For the immediate future, the extraction wells will be used to monitor LNAPL levels in the source area. We anticipate that, during future construction for the balance of the Engineered Treatment System, the wells will be finished with remediation style wellheads within flush style manholes to accommodate the SVE and LNAPL system piping.

The drilling work to install the extraction wells is tentatively scheduled to begin May 22, 2023.

Please let us know if you have any questions and if we may proceed with penetrating the engineered cap for the installation of the extraction wells.

Thanks
dsh

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**FIGURE 1
PROPOSED EXTRACTION
WELL LOCATIONS**

Former Newton Gravel Pit
Manitowoc, Wisconsin

Legend

-  Proposed SVE/RW Location
-  Estimated Extent of Former Disposal Area
-  Estimated LNAPL Plume
-  Monitoring Well(s)
-  Gravel Pit Roads
-  Approximate Pond Location
-  Engineered Cap Area
-  Civil Divisions
-  Parcels

1 inch = 40 feet



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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community