

Endpoint Solutions

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Mr. Joseph Martinez
Hydrogeologist
Wisconsin Department of Natural Resources
2300 North Martin Luther King Jr. Drive
Milwaukee, WI 53212

July 17, 2020

Subject: Variance Request to Install a Small Diameter Monitoring Well
Krystal Cleaners – 145 East Sunset Drive, Waukesha, Wisconsin
BRRTS #: 02-68-576741

Dear Mr. Martinez:

On January 3, 2020, Ms. Pamela Mylotta with the Wisconsin Department of Natural Resources (WDNR) issued a letter requesting additional investigation be performed at the Krystal Cleaners environmental repair program (ERP) case site located at 145 East Sunset Drive in the City of Waukesha, Waukesha County, Wisconsin (the "Site"). The Site is identified with the Bureau of Remediation and Redevelopment Tracking System (BRRTS) No. 02-68-576741 and Facility Identification (FID) No. 268280430.

The January 3, 2020 letter requests additional investigation be performed within the source area beneath the building to define the degree and extent of soil and groundwater contamination. As such, it will be necessary to advance soil borings through the floor slab inside the 145 East Sunset Drive tenant space to allow for the collection of soil samples. In addition, in order to collect groundwater sample(s) from the source area, the installation of a permanent monitoring well will be required.

As the source area is located beneath the floor slab of the existing commercial strip mall building, the soil borings will need to be advanced using a limited access direct push drill rig (GeoProbe® 540MT) in order to fit through the service doors. Due to this limitation, the required groundwater monitoring well will need to be constructed with small diameter (one-inch [1"]) casing and screen.

We propose to install ten (10) feet of one-inch (1") diameter No. 10 factory cut screen between approximately five (5) and 15 ft bgs, with solid casing thread-coupled to the ground surface. The monitoring well will be constructed with coarse sand installed in the annular space from the bottom of the borehole to approximately one (1) ft above the top of the screen. Approximately one (1) ft of fine sand will be placed in a layer on top of the coarse sand and a granular bentonite annular seal from the top of the fine sand to approximately one (1) ft below the ground surface will be installed. The monitoring well will be completed with a flush mount well cover and a concrete surface seal. Prior to sampling, the monitoring well will be developed by pumping with a peristaltic pump until the water runs clear.

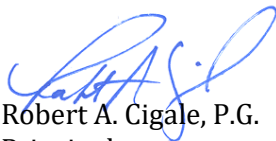
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Based on the limitations of the Site, the use of a small diameter monitoring well is necessary to allow for the collection of groundwater samples from the source area of the contamination. The proposed small diameter monitoring well will be installed following the requirements of §NR141 of the Wisconsin Administrative Code. Therefore, we request the WDNR approve a variance to install a small diameter monitoring well at the Site to support the collection of additional groundwater data requested by the WDNR.

If you have any questions or concerns regarding this request, please feel free to contact me directly at 414-858-1202.

Sincerely,

Endpoint Solutions

A handwritten signature in blue ink, appearing to read 'Robert A. Cigale', is written over the printed name and title.

Robert A. Cigale, P.G.
Principal