

From: Amungwafor, Binyoti - DNR
Sent: Tuesday, October 15, 2019 3:49 PM
To: Mike Wan at HDC (mike_wan@hydrodynamicsconsultants.com)
Cc: Ryan, Nancy D - DNR (Nancy.Ryan@wisconsin.gov)
Subject: Quarterly Groundwater Monitoring Report (4th Sampling & Final Summary), Westwood Cleaners, 8731 West North Avenue, Wauwatosa Wisconsin

Mr. Sin:

The Department of Natural Resources (DNR) received the report, "Quarterly Groundwater Monitoring Report" (4th Sampling & Final Summary), Westwood Cleaners, 8731 West North Avenue, Wauwatosa, Wisconsin on August 15, 2019 from your consultant, Hydrodynamics Consulting, Inc. The DNR is requesting the following:

1. (i) Provide a figure showing the location of the sanitary sewer laterals to the dry cleaner building, SPA Nails, Super Cuts and the Adjoining Restaurant. Discuss the potential for migration of vapors within utilities especially the sanitary sewer and how you will evaluate that as a potential vapor migration pathway. Perform vapor testing of the laterals.
(ii) Please add soil contamination data on Cross-Section BB`
(iii) Prepare an E- W cross-section from NS-B3 to NSB1 and include soil vapor points.
(iv) NSB (MW1) on the Cross-Section BB` is mislabeled, it should be labelled NSB2 (MW2).
(v) Soil and Groundwater results tables should show all results (not only those detected).
(vi) Put all groundwater monitoring wells, sampling dates and results on a single page instead of separate pages.
2. Under the Request for Addition Site Investigation (SI).
The DNR agrees that an additional SI should be completed for the site.
Revise the submittal as follows:
 - (a) Submit Change Order #1 scope of work with a cost estimate.
 - (b) Focus the additional investigation on vapor intrusion versus groundwater.
DNR suggests that you install three soil borings that will be sampled and converted to groundwater monitoring wells.
Remove all proposed soil borings PSB1, 4, 5, 6, 7 and PSB8 and leave PSB2 and PSB 3 renamed as NSB13, and NSB14 that will be converted to

- MW-7 and MW-8). Add a new proposed soil boring, PSB15, in the southwest corner of the Asphalt Parking Lot that will be converted to MW-9.
- (c) Add a new sub slab vapor point near the dry-cleaning machine location shown on Figure 3, named as SV-3A and another vapor point north of SV-4 in the Super Cuts space and name it SV-6.
 - (d) Revise/reduce completing four quarters to three quarters groundwater sampling/monitoring events with a contingency cost of sampling four quarters groundwater sampling/monitoring events if DNR approves this.
 - (e) Reduce proposed sub-slab vapor sampling/monitoring to three events in all seven vapor sampling ports (SV1 to SV-5, SV-3A and SV-6) with a minimum of one event conducted during the winter season with a contingency cost to complete an additional sampling event if DNR approves this. Sub-slab sampling leak testing should include shut-in testing. The leak test done on the sampling train in the previous sampling utilized isopropyl alcohol as a tracer Isopropyl alcohol was detected in the samples making the validity of the results questionable. Tightness of the sampling train should be evaluated using a shut-in test.
 - (f) Confirm whether PCE is still in use at the dry cleaner.
 - (g) What is the suspected cause of increasing PCE contamination in the groundwater from MW-5 and MW-6 ?. Is this a new release ?
 - (h) Groundwater and vapor sampling results must be submitted to the DNR, owners and occupants, if applicable, within 10 business days according to § NR 716.14(1) and § NR 716.14 (2).

Please, contact me at 414-263-8607 if you need any clarifications to this request.

Thanks

Binyoti



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