From: Thomas Dueppen <tdueppen64@gmail.com>
Sent: Wednesday, November 29, 2023 11:48 AM

**To:** Henderson, Zachary D - DNR

**Cc:** Gopal Adhikary; Bill Bode; Scott Bence

**Subject:** Garage Mahal LLC BRRTS #:02-68-593061 - Request for Assistance **Attachments:** A A'.pdf; MenomoneeVillage 1914 .pdf; MAIN&MILL FIG 7 XSec.pdf;

MAIN&MILL FIG 4.pdf; MAIN&MILL FIG 6 Utilites.pdf;

MAIN&MILL\_FIG\_9\_GW MAP.pdf; MAIN&MILL\_FIG\_8\_SOIL MAP.pdf

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Hi Zachary,

I have attached several tables and figures associated with our current investigation activities.

Current investigation results indicate that the source of soil and groundwater contamination at the site (PCE) is associated with a release within the former building where PCE was most likely dumped into the wastewater line that runs adjacent to the storm sewer line that flows east under Mill Street and into the adjacent parking lot. Fortunately the existence of a former quarry (see attached 1914 Plat Map) within the parking lot has allowed us to collect groundwater samples within the parking lot... without drilling into the bedrock. Soil and groundwater analyses indicate that the existing utility corridors have influenced off-site contaminate migration.

At this point we would like your consensus on where more investigation is needed. We understand that further investigation of groundwater impacts and potential vapor migration is needed. Sub-slab vapor and indoor air samples for the two structures closest to the 'hot spot' for soil impact (northwest side of Mill Street) is scheduled for this Winter.

The degree / extent of chlorinated compounds in the soil and groundwater appears to be adequately defined near the current 'hot spot', but a few more borings / wells within the Lime Kiln Parking Lot may be needed to assess down-gradient contaminant migration. However, further investigation of groundwater impacts near the 'hot spot' will require bedrock drilling and may not provide much definitive information regarding the degree / extent of PCE impact in groundwater. In addition, penetration into this fractured bedrock unit may also provide another contaminant pathway by exposing deeper sections of the limestone bedrock.

Please review the attached information and let me know if you have any questions or require additional information, to provide your thoughts about what investigation activities are still needed.

Thanks, TJD

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Thomas Dueppen P.G., Senior Hydrogeologist Himalayan Consultants, LLC W156 N11357 Pilgrim Road Germantown, WI 53022

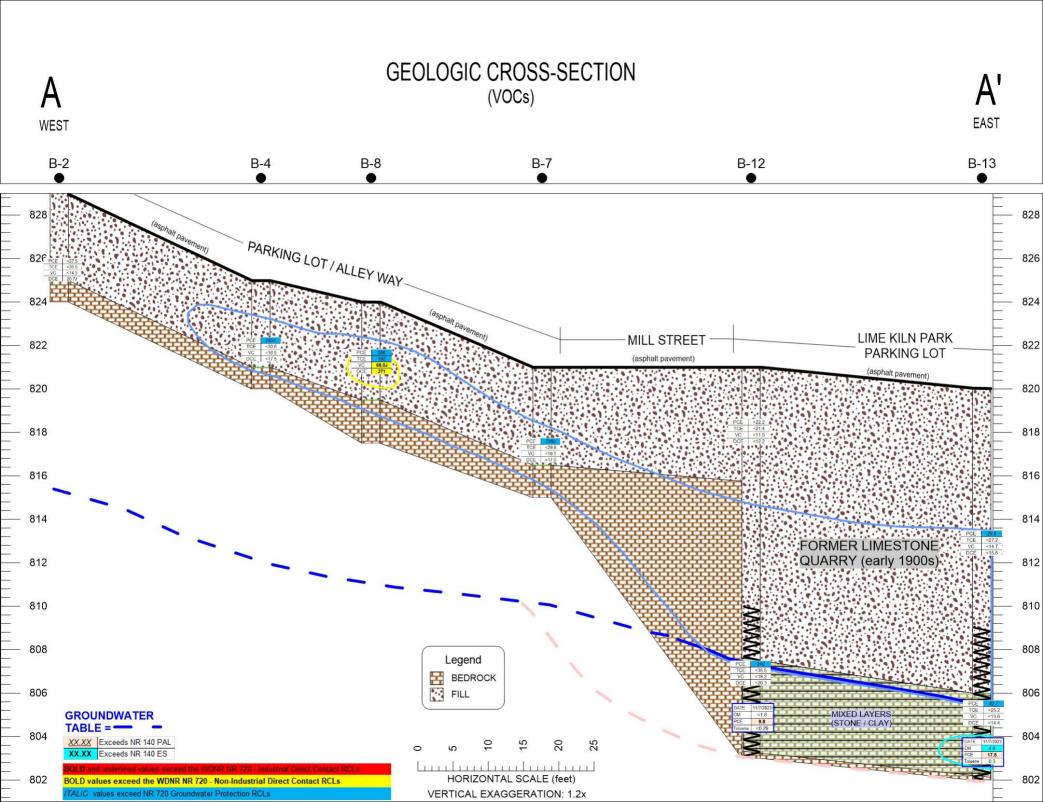
Phone: (Office) 262-502-0066 (Cell) 262-613-1468; (Fax) 262-502-0077

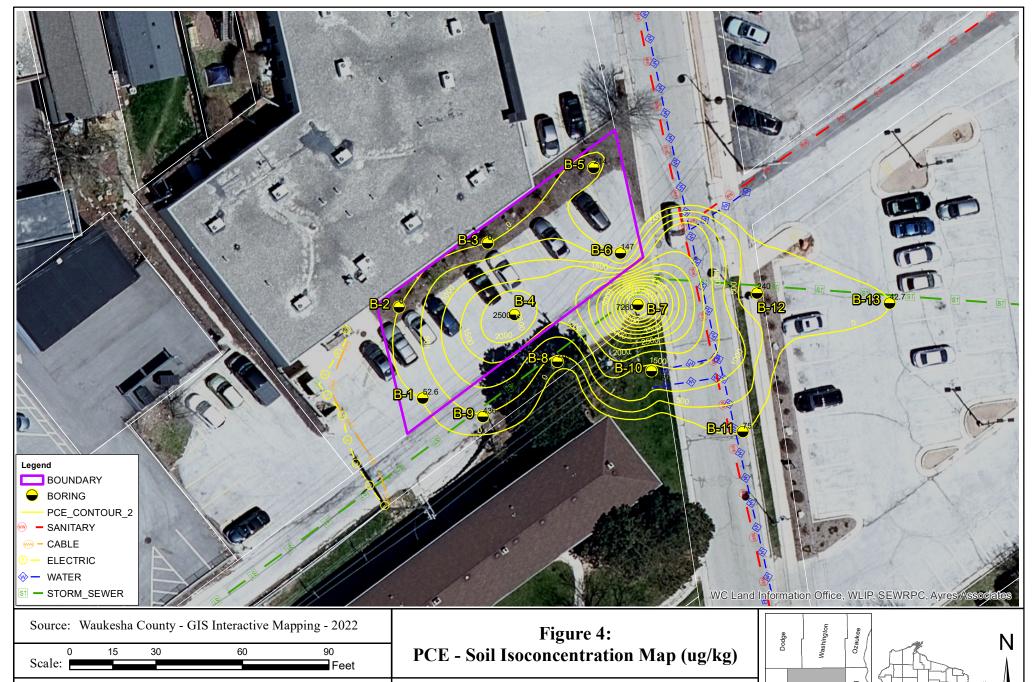
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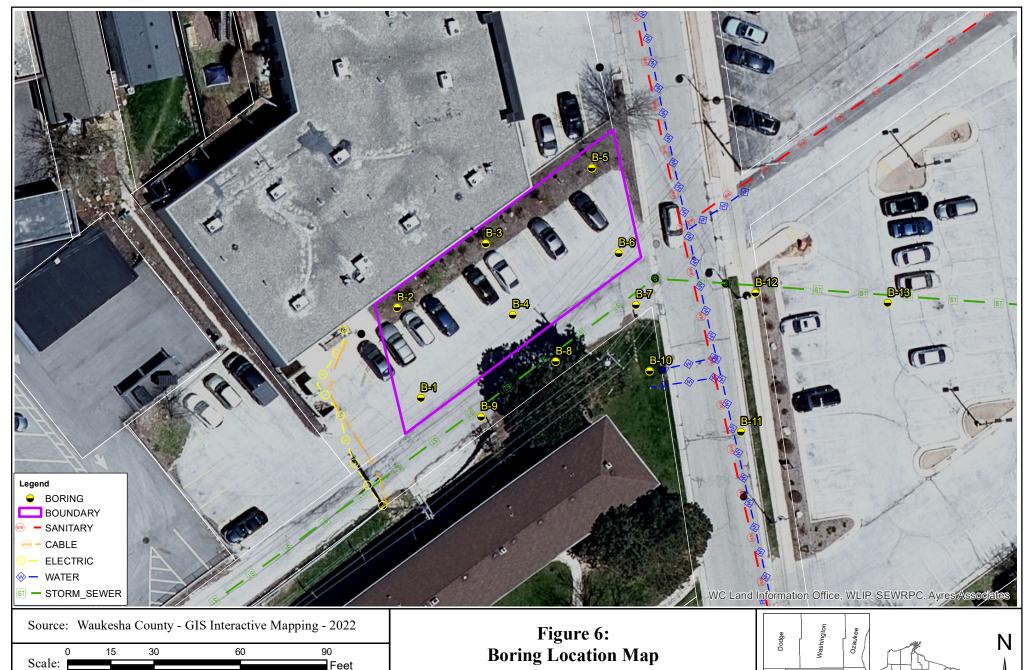
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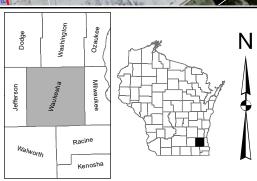


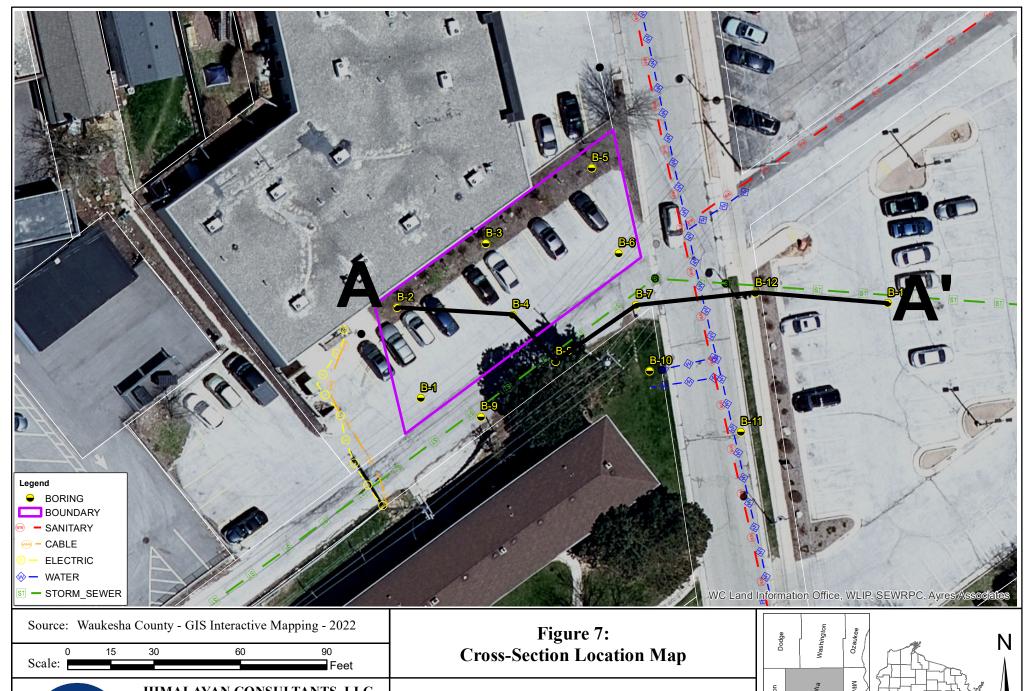




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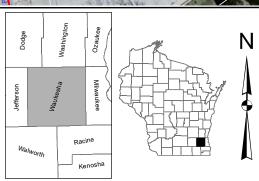


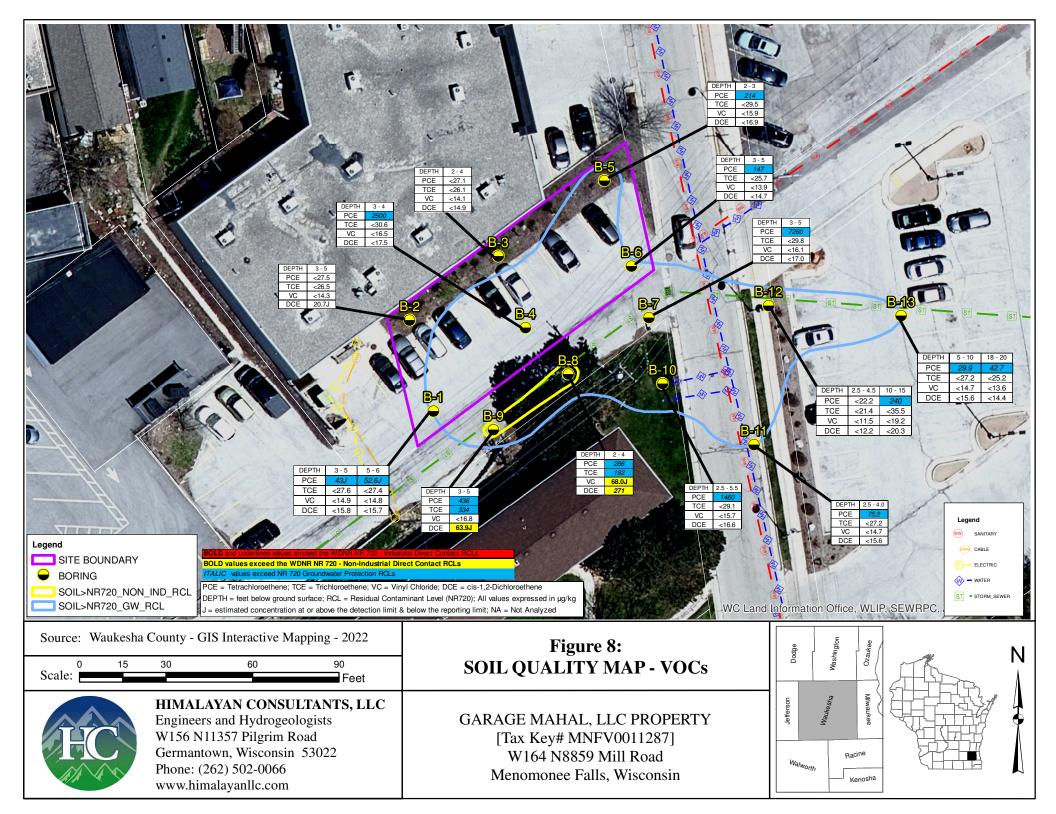


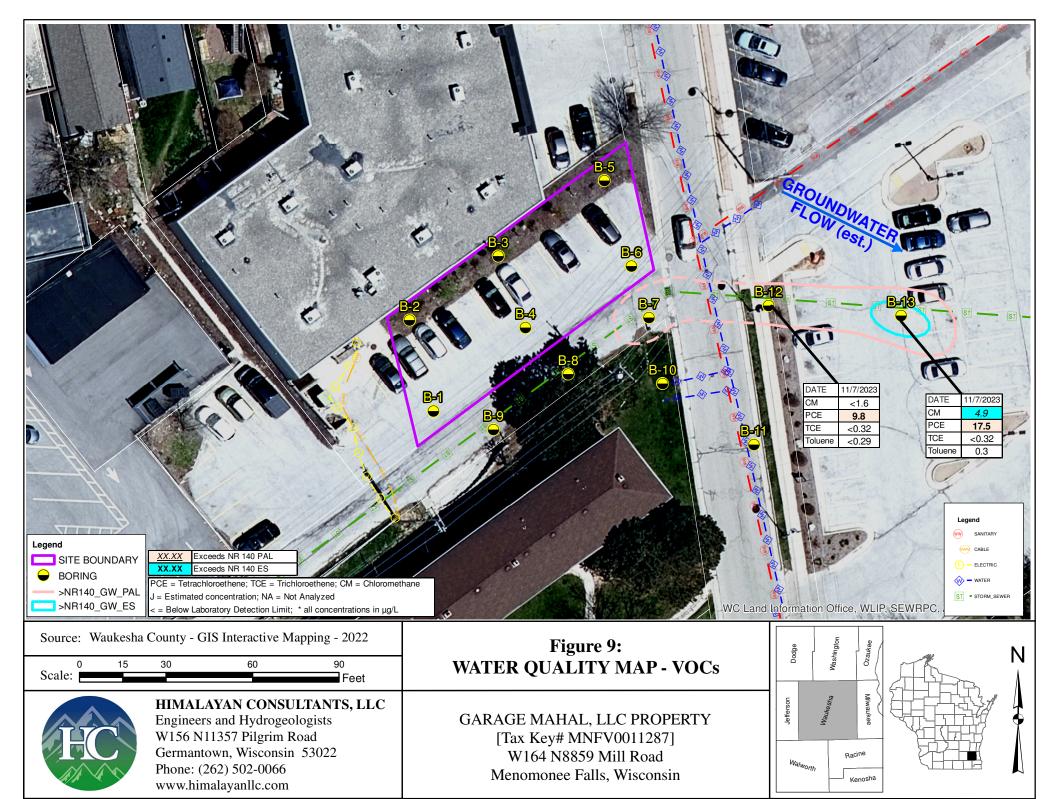
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