

2019 Lyons-Rybolt Neighborhood Groundwater Assessment Summary

Background

Two properties are currently in IDEM's State Cleanup Program for documented chemical releases - former Magnode facility at 4151 W. Washington St. and a former dry cleaner (Dreyer Investments) at 4152 W. Washington St. Soil and groundwater contamination have been found in this neighborhood involving volatile organic compounds (VOCs), such as Tetrachloroethene and Tricloroethene. To determine if these chlorinated solvents are impacting neighboring private residential wells, a groundwater survey was conducted in the summer of 2019. Historical sampling results were also compiled with this data. 55 private wells were located within the 600-800 blocks of S. Lyons Ave and the 500-800 blocks of S. Rybolt Ave. Letters requesting well samples were sent out with a door-to-door survey following.

Survey Results

A total of 55 properties were surveyed in 2019. Twelve properties were sampled, resulting in a 22% response rate. Previous sampling results were also located for another ten homes within the project area.

Sampling Results

Volatile organic compounds were detected above detection limits in seven residential properties. The VOCs detected include 1,1,1-Trichloroethane (4 properties), Tetrachloroethene (4 properties), and 1,4-Dichlorobenzene (1 property). Well water in one home contained Tetrachloroethene at levels above the EPA's Maximum Contaminant Level at 13.8 parts per billion (MCL is 5 ppb).

Conclusions

In conclusion, the same VOCs related to the former Magnode facility have been found in private water wells at seven residential properties in the immediate vicinity to the east and south. Municipal water is available for two of these properties, but there are no public utilities on S. Lyons Ave or the 800 block of S. Rybolt Ave. See attached map showing properties sampled and location of public water mains. Recommendations include contacting IDEM's State Cleanup Program and investigating options for extending public water mains to the impacted properties.



Lyons-Rybolt Well Survey Results

Red = VOCs detected

Blue = VOC levels BDL