

# Bean Creek Neighborhood Groundwater Assessment Summary

## Background

Past groundwater sampling in this neighborhood was very limited, so an assessment was conducted to determine if any groundwater contamination is present. The Bean Creek Neighborhood is located in Warren Township, near the headwaters of Bean Creek. The streets involved were Orange St, Whittier Pl, and Ritter Ave. Letters requesting well samples were sent to 41 properties with a door-to-door survey following. Samples were taken from May to July 2014.

## Survey Results

A total of 41 properties were surveyed, with two properties determined to be vacant. Of the remaining 39 residences, 13 properties responded to the survey resulting in a 32% response rate. The attached map shows the properties sampled. Well depth was generally unknown. Based on the limited well depth data collected, depths varied greatly, ranging from 25' to 181'.

## Sampling Results

### Bacteria

No *E.coli* bacteria were found in any of the samples. Coliform bacteria were present in 3 wells, or 23% of samples. This rate is consistent with those found in past well surveys. Chlorination instructions were sent out with the lab reports and follow-up inspections were attempted.

### VOCs

No volatile organic compounds were found above detection limits in any of the samples taken.

### Anions

Well samples were tested for the following anions: Chloride, Fluoride, Nitrates, Nitrites, Phosphates, and Sulfates. All anions were below the Maximum Contaminant Levels (MCLs).

### Metals

Samples were analyzed for the following metals: Arsenic, Barium, Cadmium, Chromium, Mercury, Lead, Copper, Nickel, Zinc, Iron, and Manganese. The only metal detected above the MCL was arsenic. Arsenic was elevated (greater than 10 ppb) in 4 of the samples, or 31% of residences sampled. The average concentration of those elevated results was 11.9 ppb.

## Conclusions

There were no significant contaminants in the wells in this neighborhood. Coliform bacteria and arsenic were found elevated in typical amounts, compared to other neighborhood assessments. However, there was a small participation rate, so not many samples were taken.

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