



Indiana Department of Environmental Management

Protecting Hoosiers and Our Environment Since 1986



0153 Ground Water Site Investigation and Cleanup Project

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Senior Project Manager

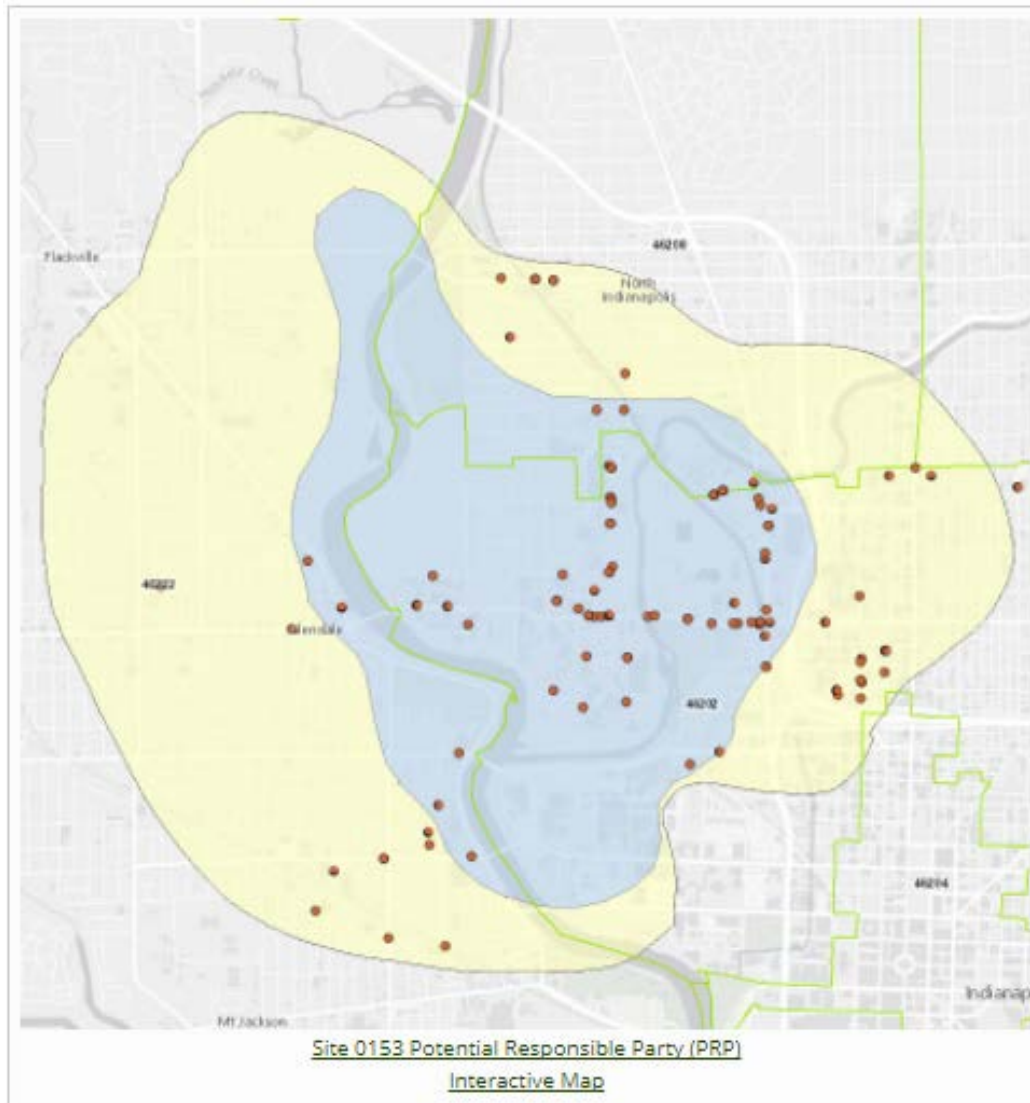
State Cleanup Program

Indiana Department of Environmental
Management



What is the 0153 Site?

- An area of the near northwest side of Indianapolis where low levels of chemicals are found in underground water
- An area of IDEM investigation to determine the source of chemicals impacting underground water – www.idem.IN.gov/cleanups/pages/site0153/map.html





History of Site 0153

- 2013 – IDEM receives notice from Citizens Energy Group of low levels of chemicals impacting raw, underground water
- IDEM sampling confirmed 5 of 19 production wells with chemical impact



What chemicals were found?

- Man-made chemicals used in manufacturing and dry cleaning as cleaning solvent – often used from 1960s through 1980s
- Chemicals of concern found are Tetrachloroethylene, Trichloroethylene, cis-1,2-Dichloroethylene, Vinyl Chloride, and 1,1,1-Trichloroethane (chlorinated solvents)
- Fact sheets with health concerns can be found on the 0153 Site webpage – www.idem.IN.gov/site0153



History of Site 0153

- June 2017 – IDEM signs Agreement with U.S. EPA to take over role as lead agency
- July 2017 – IDEM sends letter to community notifying of investigation into chemicals in underground water



Drinking Water Safety

- These chemicals are not detected in the “water served to customers” (finished water)
- Finished water meets all Safe Drinking Water Act standards and has been and remains safe to consume



Why are we here if water is safe to drink?

- IDEM wants to continue to ensure safe drinking water for many years to come
- IDEM wants to investigate the sources of the chemicals in the underground water
- IDEM will oversee or implement cleanup of sources of the chemicals to continue to ensure safe drinking water for all



IDEM's Role

- Monitor drinking water to ensure continued safety
- Lead the investigation, find sources, and implement a cleanup plan
- Communicate with stakeholders and the community



Ensuring Safety of Drinking Water

- Citizens Energy Group to sample underground water and finished water quarterly under IDEM permit
- IDEM review of Citizens water sample data
 - IDEM Drinking Water Program Review
 - IDEM State Cleanup Program Review

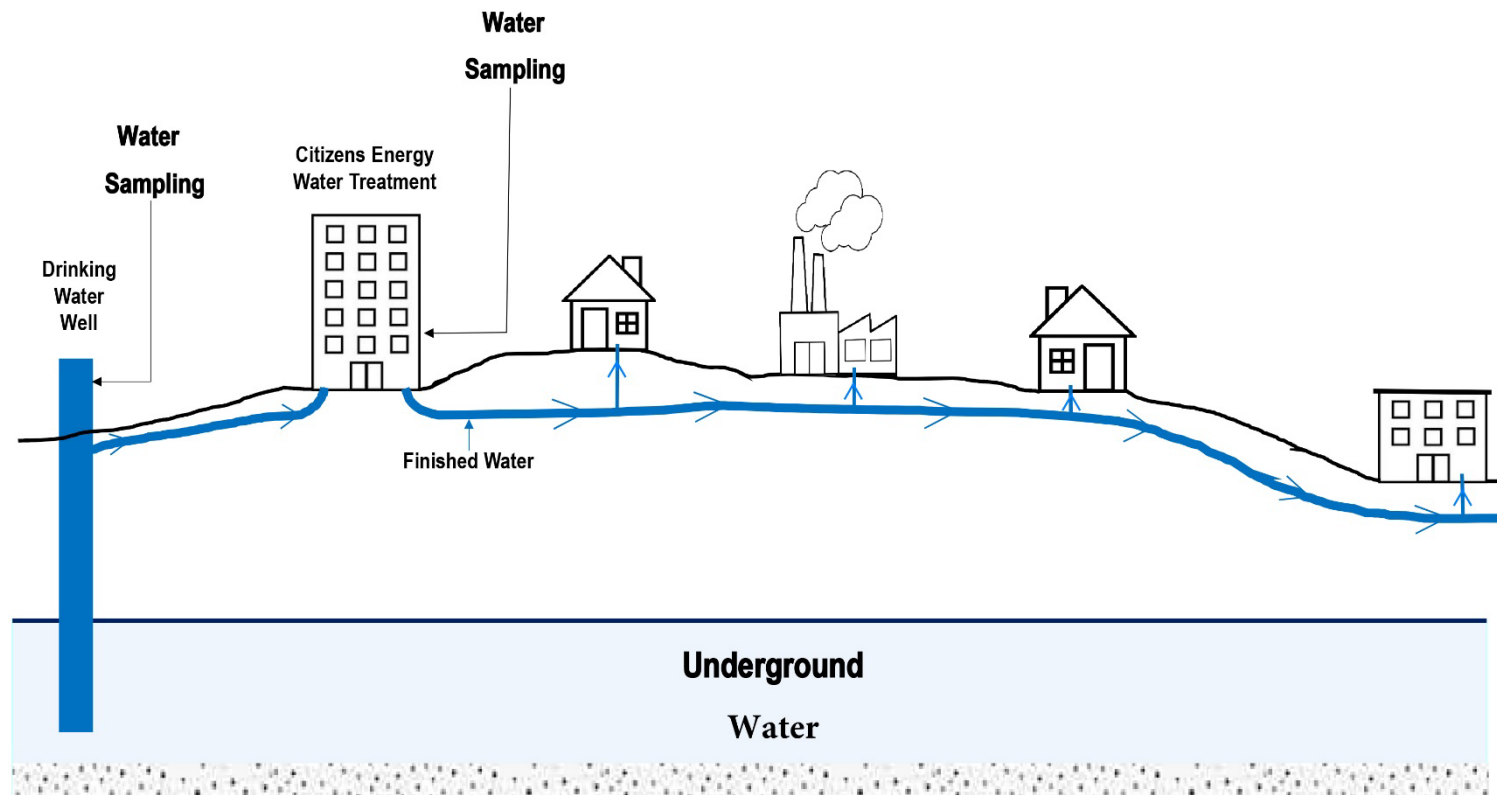


Recent Drinking Water Monitoring

- Citizens Energy Group collected latest sampling of underground water and finished water on February 27, 2018
- IDEM also collected its own samples on February 27, 2018
- Results will be available in April 2018



Drinking Water Monitoring





Ensuring Safety of Drinking Water

- Citizens Energy Group has shut down one production well based on underground water monitoring results
- Along with Citizens Energy, IDEM will evaluate the need for future actions on specific wells as data dictates



Investigation Process

1. Historical research on every property that could have been a source of chemicals

- IDEM Records
 - City Directories/Sanborn Fire Maps
 - Aerial Photographs
 - Property ownership records
 - Marion County Health Dept. Records
- Send **Information Request Letters** to property owners



Investigation Process

2. Send Notice of Liability Letters

- Must confirm potential for release or spill of chemicals
- Triggers liability of property owner or responsible person
- Requires completion of testing and cleanup



Investigation Process

3. Sample soil, underground water, and vapor for chemicals

- Determine how deep into soil and underground water chemicals migrated
- Determine how far from property chemicals migrated
- Determine contribution to chemicals found in municipal wells

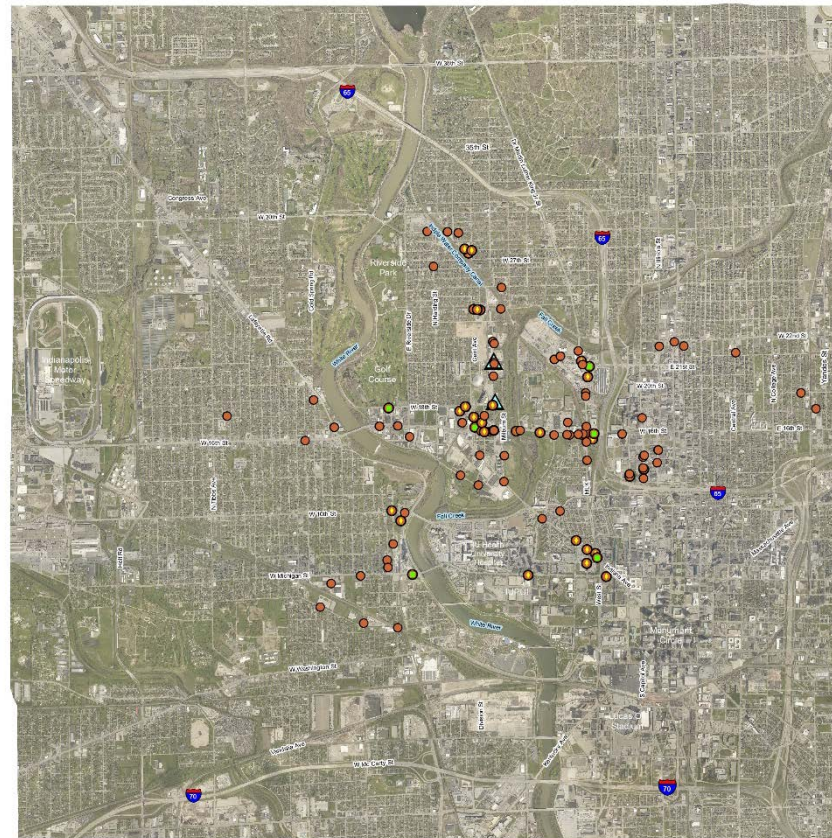


Investigation Status

- 106 potential sources to contamination identified (started with 89)
- Historical research on 58 properties
- 40 Information Request Letters sent
- 6 Notice of Liability Letters sent



Where is IDEM investigating?



Non-Orthorectographic Data
Source: Indiana Geographic Information Office (IGIO)
Orthorectographic Data
Collected from 2010 Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 18 N
Map Scales: NAD83
0 0.5 1 2 Miles

- Documented Chlorinated Solvent Management or Release (106)
- Information Request Sent (40)
- Notice of Liability Sent (6)
- ▲ No Further Evaluation for Well Field Impact



March 8, 2014
This map is intended to serve as an informational representation only. This information is not warranted for accuracy or other purposes.
David G. Smith, LPL, 2014
Indiana Department of Environmental Management
Office of Land Quality - Engineering & GIS Services



Investigation Timeline

- Historic Investigation of all potential chemical sources will take 2-3 years
- Chemical Investigation to determine extent of contamination will take 2-3 years
- Determination of contribution to chemical contamination in wellfield could take up to 5 years



Community Involvement Plan (CIP)

- Public comment period ended on February 14, 2018
- IDEM received about 10-12 comments
- IDEM is developing responses to comments
- Responses and a final CIP will be posted by April 1, 2018



Project Partners

- Indiana Department of Environmental Management (IDEM)
- Citizens Energy Group
- City of Indianapolis
- Marion County Health Department



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Frequently Asked Questions



Is My Water Safe To Drink?

- Yes. Water served to homes and businesses meets all Safe Drinking Water Act standards set by U.S. EPA and is safe to drink
- Water served to customers does not contain the chemicals of concern and is being monitored by IDEM and Citizens Energy



Has IDEM sampled the municipal water to verify quality?

- Yes. IDEM collected samples of the raw water from the municipal wells on February 27, 2018
- IDEM collected a sample of the finished water as well



Can I use the water for bathing and watering of lawns and gardens?

- Yes. Water served to customers does not contain the chemicals of concern



Can I get my soil or water tested?

- Citizens Energy Group will test your home's drinking water upon request: (317) 677-2845
- Marion County Health Department will inspect property environmental concerns and test surface soil: (317) 221-2266



Drinking Water Well Locations

- Exact locations cannot be disclosed by IDEM
- Indiana Code (IC) 5-14-3-4:
 - 19) A record or a part of a record, the public disclosure of which would have a reasonable likelihood of threatening public safety by exposing a vulnerability to terrorist attack. A record described under this subdivision includes the following:
 - (H) The location of community drinking water wells and surface water intakes.



How do I receive information updates?

- Sign up for IDEM email list via website:
www.idem.IN.gov/site0153
- Email IDEM at site0153@idem.IN.gov
- Call IDEM at (800) 451-6027
- Signup sheets for mailing list



Next IDEM Information Session

- IDEM has committed to holding quarterly public meetings
- Next public meeting will be announced via email, mailing list, and website
- Next public meeting will likely be held in June 2018