



0153 Ground Water Site Investigation and Cleanup Project

Ryan Groves
Senior Project Manager
State Cleanup Program
Indiana Department of
Environmental Management
February 21, 2019

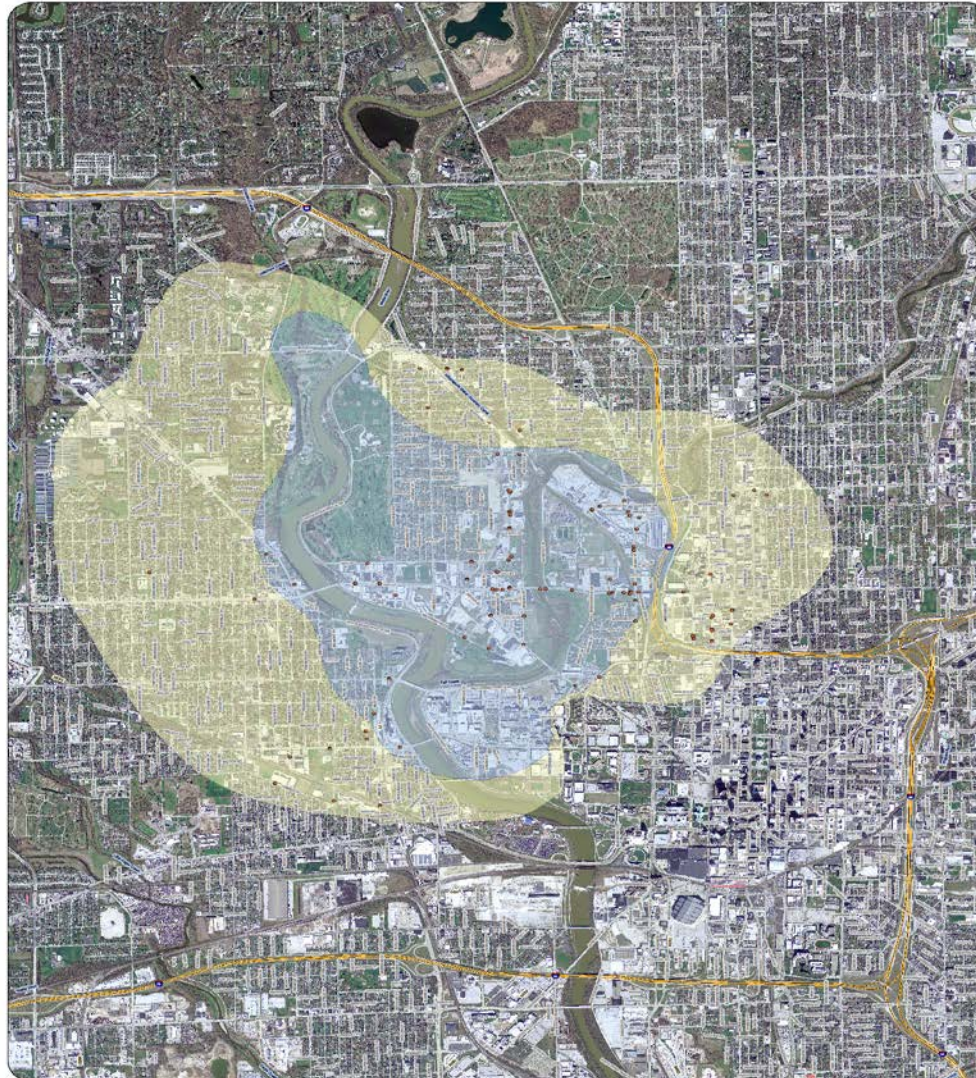


What is the 0153 Site?

- 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



Site 0153 Ground Water Contamination Project



This map is intended to inform the public of the location of the project. It is not intended to be used for legal purposes. For more information, please contact the Indiana Department of Environmental Management, Office of the Director, 400 North Senate Avenue, Indianapolis, Indiana 46204-2199. Phone: (317) 232-1234. Fax: (317) 232-1235. Email: info@idem.in.gov.

- Documented Chlorinated Solvent Management or Release
- Documented Contributor to Well Field Impact
- No Further Evaluation for Well Field Impact
- Wellhead 1 Year Delineation
- Wellhead 5 Year Delineation



Map Date: 11/11/2011
Map Title: Site 0153 Ground Water Contamination Project
Map Author: Indiana Department of Environmental Management, Office of the Director, 400 North Senate Avenue, Indianapolis, Indiana 46204-2199. Phone: (317) 232-1234. Fax: (317) 232-1235. Email: info@idem.in.gov.



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 found on the 0153 Site webpage: www.idem.IN.gov/site0153



IDEM Role

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



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



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



Ensuring Safety of Drinking Water

- Periodic Sampling by IDEM
 - Municipal water sampled by IDEM in February 2018
 - No well exceeds Safe Drinking Water Act standards
 - Finished water remains non-detect



Ensuring Safety of Drinking Water

- Municipal water sampling planned for March 2019 by IDEM
- Results will be posted to the 0153 website
- If exceedances are found management options will be initiated



Remediation Process for 0153

- Investigate Sources
- Delineate Contamination Extent
 - Did it impact Municipal Wells?
 - Did it impact Indoor Air of homes or businesses?
- Develop Remedial Action Plan
 - Cleanup at specific sources
 - Plan to keep contaminants from municipal wells



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 Public 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. Delineate Contamination

- Sample, Sample, and Sample Some More
 - Find source
 - 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

- Information Request Letters sent
 - 119 letters sent out
- Notice of Liability Letters sent
 - 17 letters sent out
 - All 15 actively delineating contamination
- 4 properties removed from list



Indiana Department of Environmental Management

Protecting Hoosiers and Our Environment Since 1986

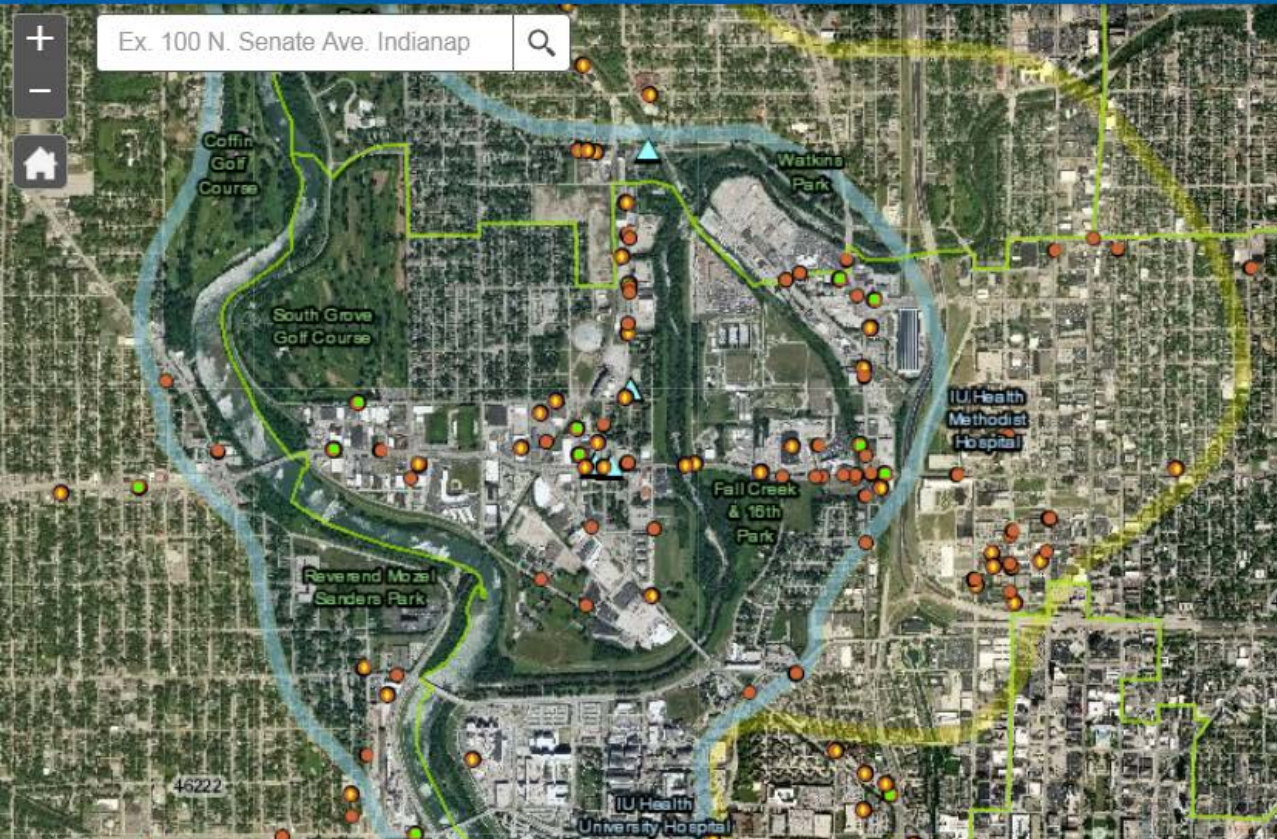


Where is IDEM Investigating?



Site 0153 Interactive Map

Ex. 100 N. Senate Ave. Indianapolis



Legend

Riverside - Site0153

Potential Responsible Party (PRP) Status

● Documented Chlorinated Solvent Management or Release (91)

Potential Responsible Party (PRP) Status

● Information Request Sent (52)

Potential Responsible Party (PRP) Status

● Notice of Liability Sent (17)

Potential Responsible Party (PRP) Status

▲ No Further Evaluation for Well Field Impact (6)

USA_Zip_Code_Boundaries_2014

□ Zip Code

Wellhead Protection 1 Year Delineation



Wellhead Protection 5 Year Delineation





What is IDEM finding in Groundwater?

- Most areas investigated:
 - Range from non-detect to less than 50 parts per billion (ppb) (action level in drinking water is 5ppb)
 - Low concentrations unable to be effectively remediated
 - No connection to Municipal wells found yet



What is IDEM finding in groundwater?

- Two properties have higher concentrations of TCE
- Found at levels that require remediation
- Investigation incomplete
- Connection to Municipal wells not found yet



Remedial Action

- Two properties have conducted interim contaminant remediation
- Still require full remedial action plan
- Two other properties will need Remedial Action Plans



Will IDEM share Remedial Action Plans for Review?

- Yes. All Remedial Action Plans will be available
 - Posted on 0153 website
 - In IDEM file
 - Posted in public library
 - Community can provide comments



Community Involvement Plan (CIP)

- Public comment period ended on February 14, 2018
- IDEM received several comments
- IDEM responses posted on 0153 website and in public library
- Final CIP posted to 0153 website and in public library



Project Partners

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



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, option 5
- Signup sheets for mailing list



Next IDEM Information Session

- IDEM has committed to hold public meetings as needed
- May post audio/video presentations on website
- Next public meeting will be announced via email, mailing list, and website



Indiana Department of Environmental Management

Protecting Hoosiers and Our Environment Since 1986



Questions?



Indiana Department of Environmental Management

Protecting Hoosiers and Our Environment Since 1986



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?

Does IDEM verify quality of municipal water by conducting independent sampling?

- 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 Public Health Department will inspect property environmental concerns and test surface soil: (317) 221-3093



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 Environmental Justice Considerations Affect the 0153 Project?

- Environmental cleanup is to be implemented in a fair and equitable manner for all stakeholders
- Cleanup decision making is solely based on risk of exposure and health impact