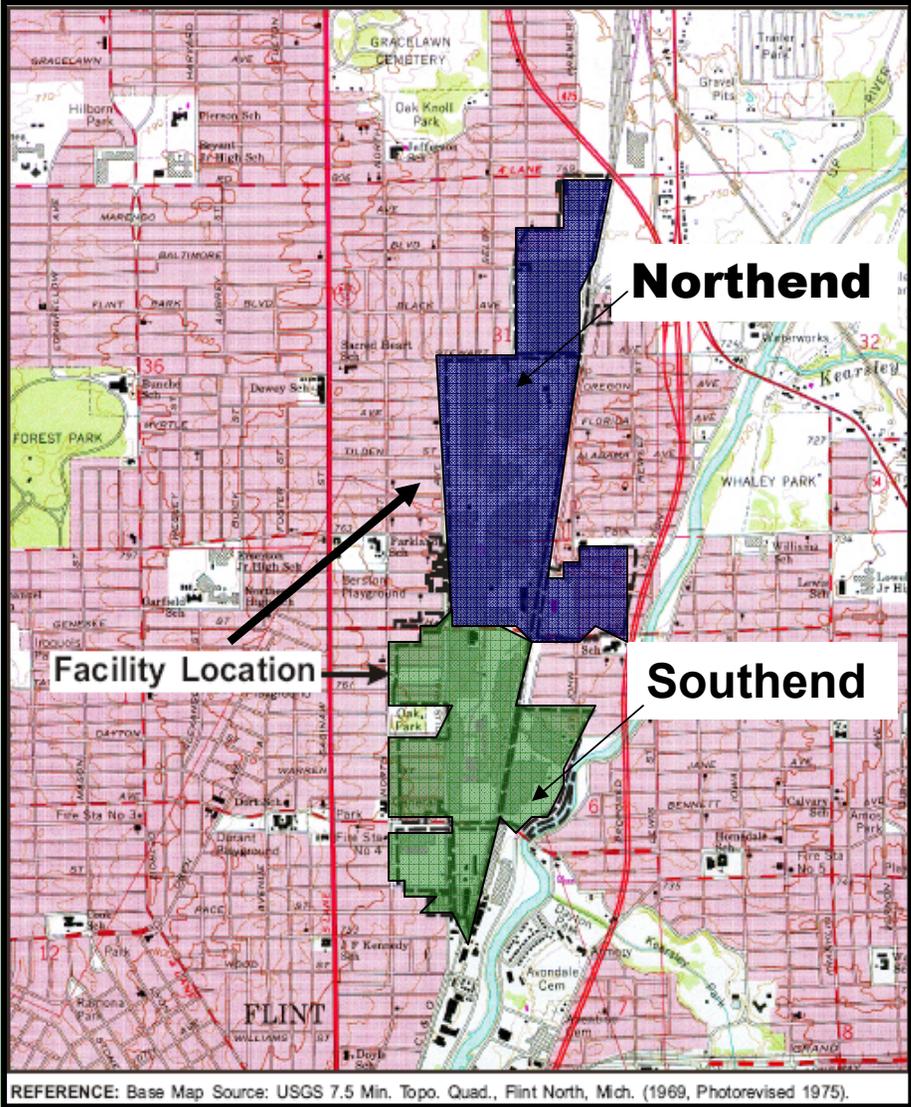
A large, stylized green leaf graphic is centered on the page. The leaf is composed of several overlapping, semi-transparent green shapes that form its outline and internal veins. The background is a solid, light green color.

# **GM-Flint Buick City**

## **Southend Summary and Northend Introduction**

*Presented by EPA Region 5*

# Site Location



# **Review of Southend**

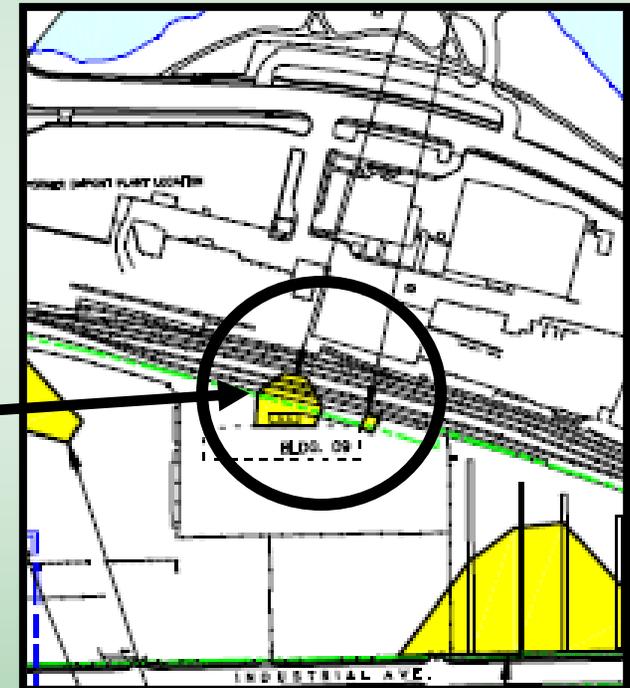
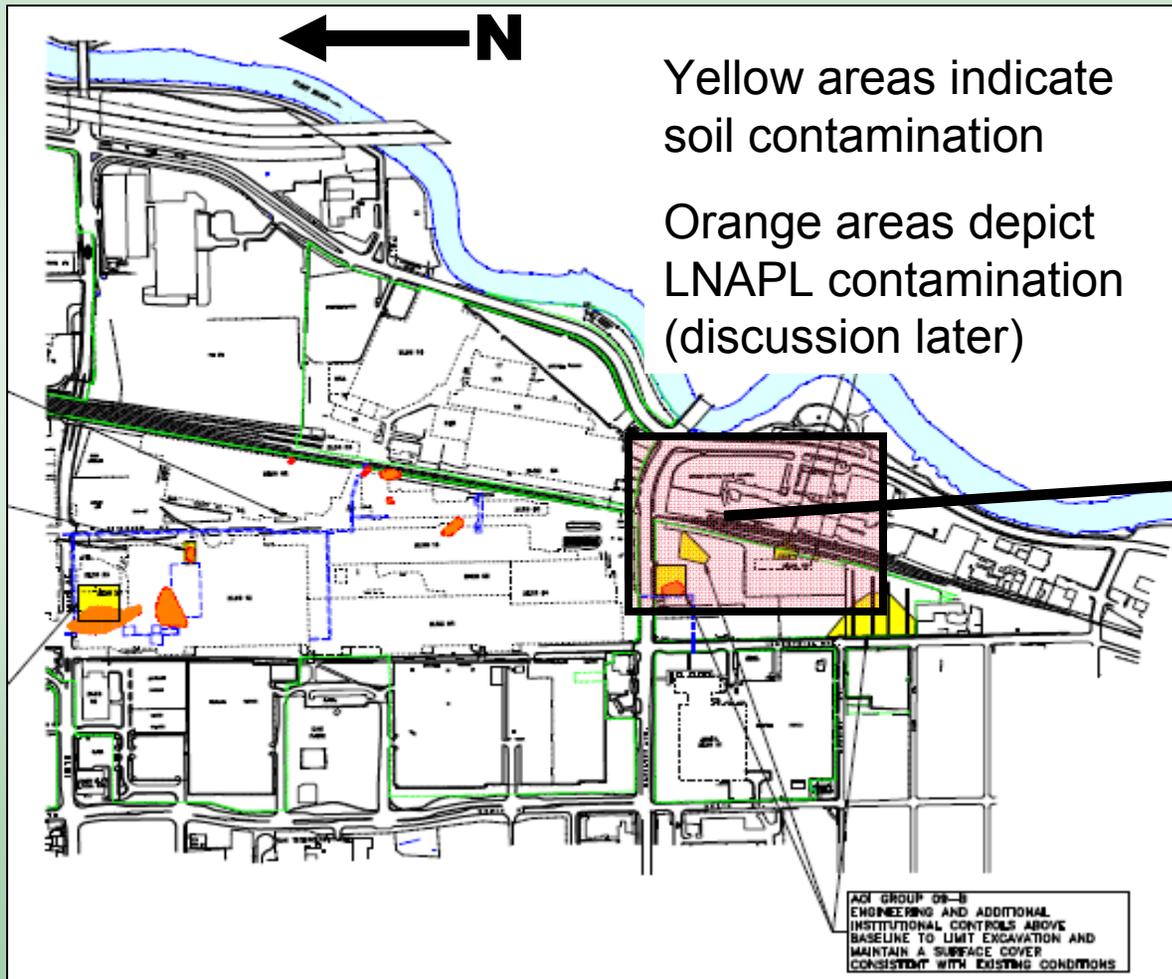


# Soil Remedy

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- ❖ Keep the current building slabs and asphalt intact to serve as a cover for the underlying contamination in six different areas around the facility.
- ❖ Institutional control to limit excavation in those discrete areas with soil contamination without proper protective clothing.
- ❖ Excavate area with soil contamination that is on the CSX property.
  - ❖ Future continued access for maintenance of an engineering control (ex. an asphalt cover) would be problematic.
  - ❖ Putting additional controls on a different property would also be problematic.

# Areas of Soil Contamination (Southend)

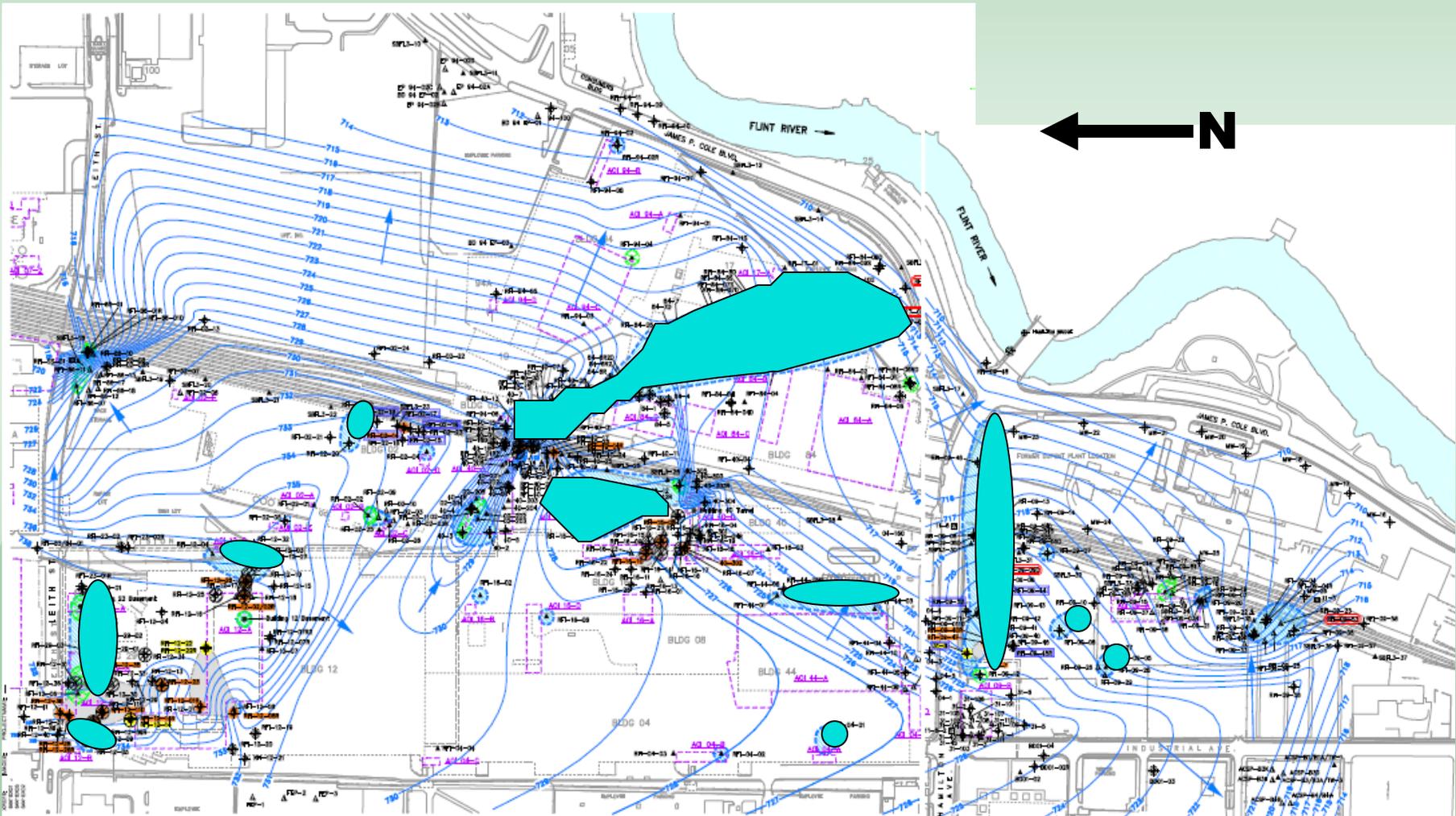


# Groundwater Remedy

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- ❖ Contaminants include: metals and volatile organic compounds (VOCs).
- ❖ Contaminated groundwater plumes have been stable for years and therefore the remedy is for MLC to monitor the groundwater for years to ensure no migration to the Flint River.
- ❖ The groundwater monitoring program and contingency plan will be developed in the Corrective Measures Implementation (CMI) Workplan and will be approved by the EPA.

# Areas with Groundwater Contamination



# LNAPL Remedy

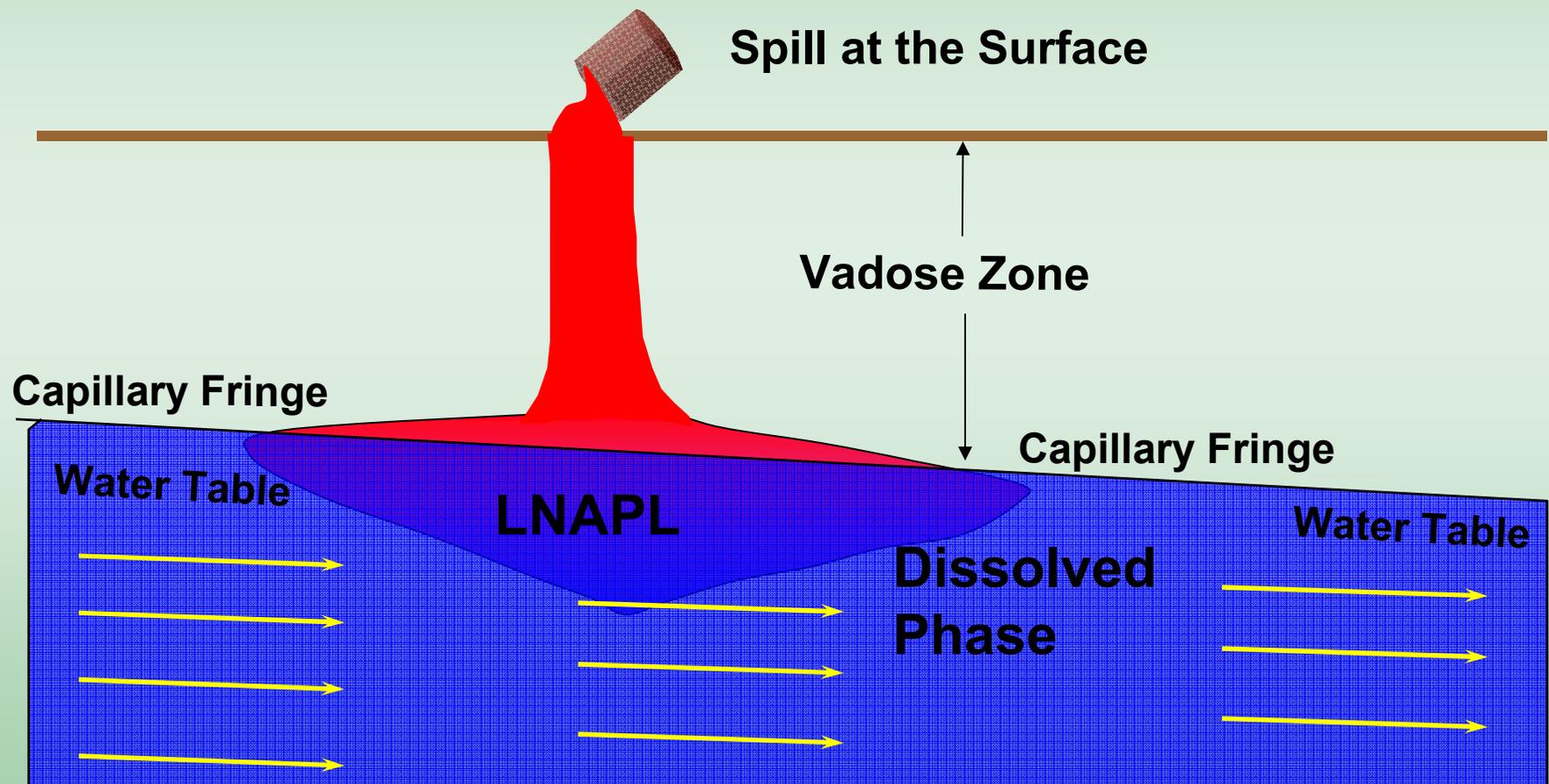
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## Change from the Statement of Basis

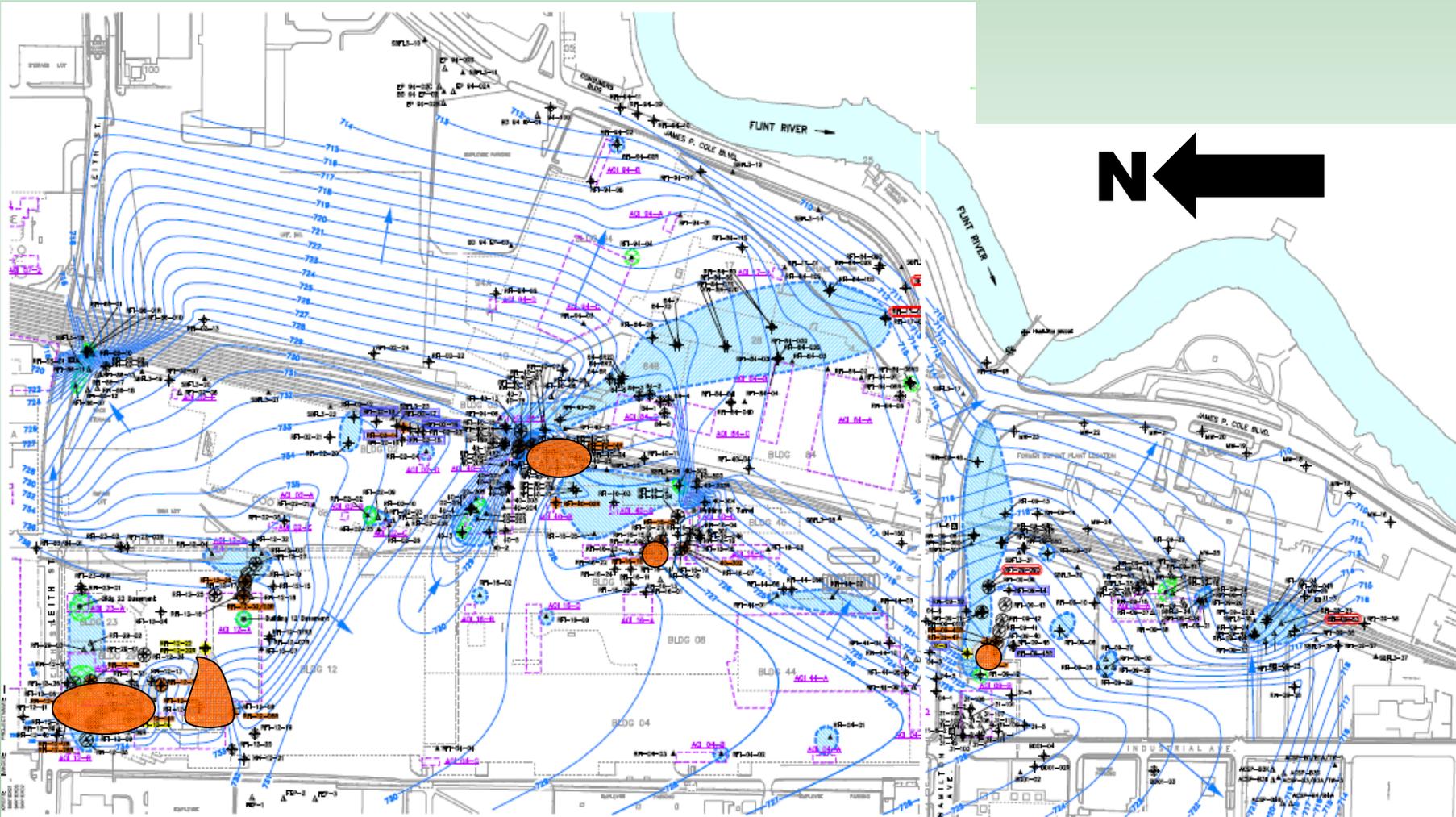
- ❖ Requiring testing of different technologies.
- ❖ The default remedy will be multi-phase extraction.



# Light Non-Aqueous Phase Liquids (LNAPL)



# Areas of LNAPL Contamination



# What's Next for the Southend?

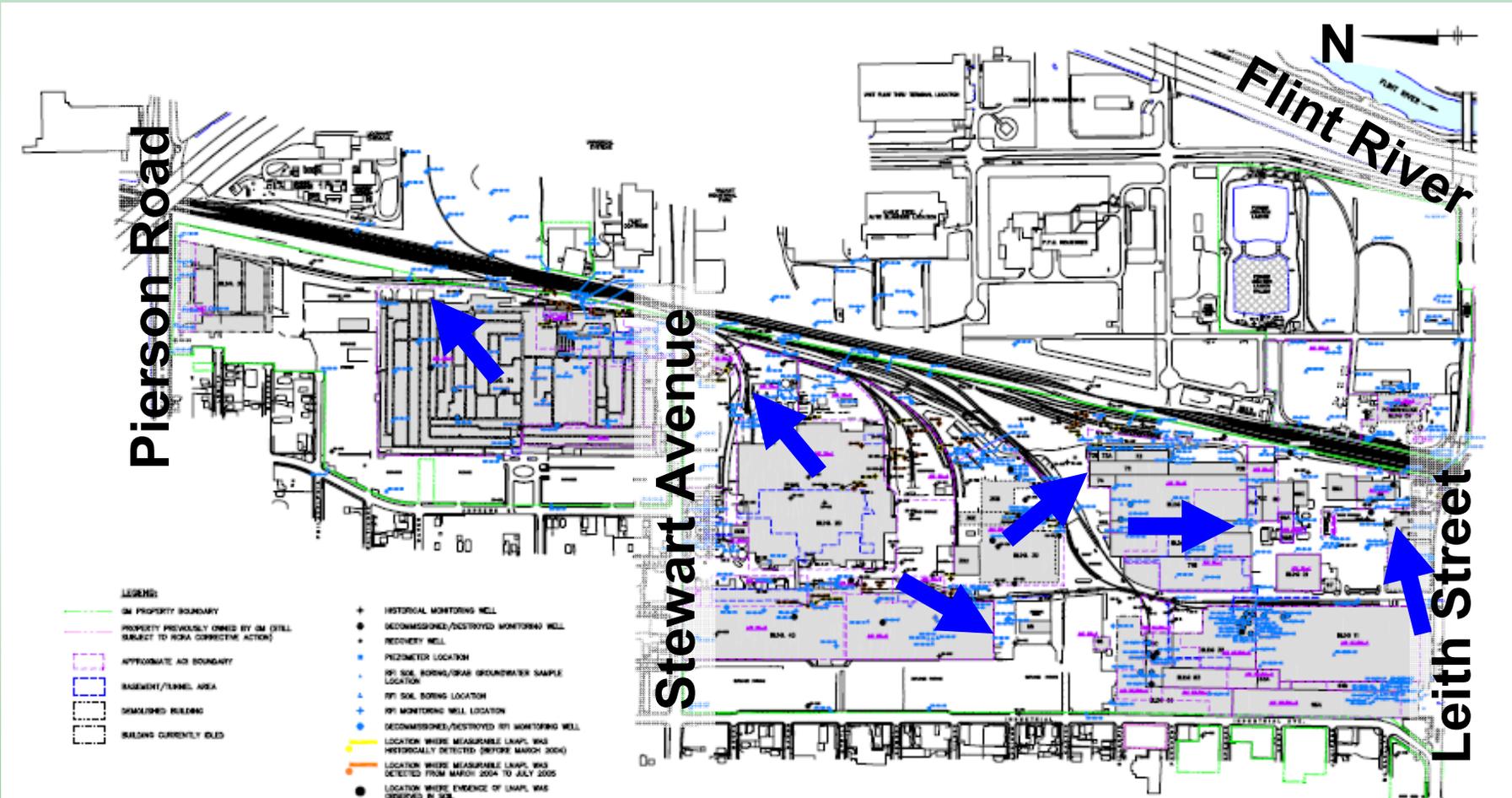
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- ❖ EPA will receive a CMI workplan from MLC detailing how the remedies will be implemented (anticipated by the end of the summer).
- ❖ After EPA's review and approval, construction and testing for the LNAPL remedies will begin.

# **Northend Nature and Extent of Contamination**



# Environmental Setting

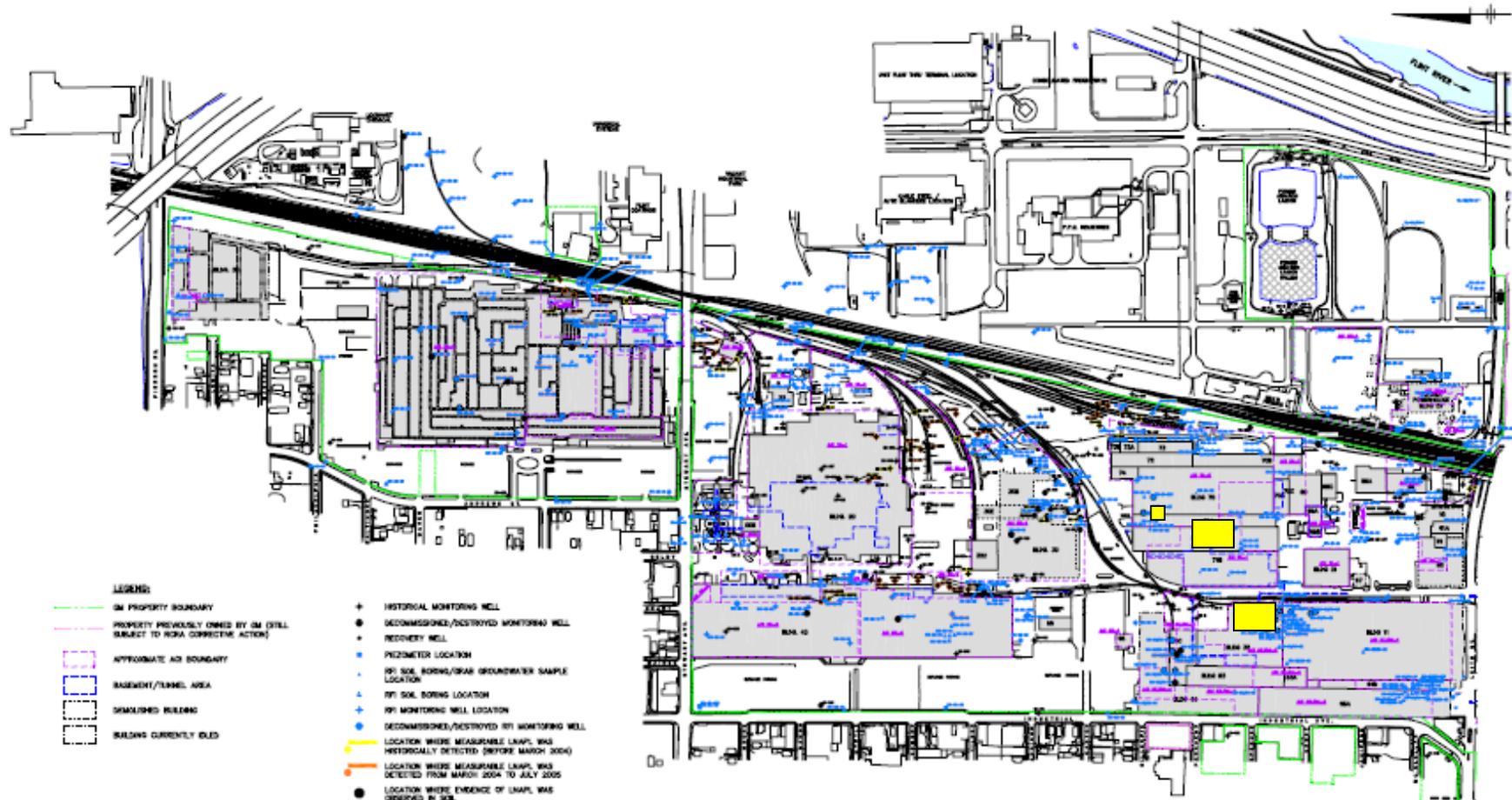


# Contaminants

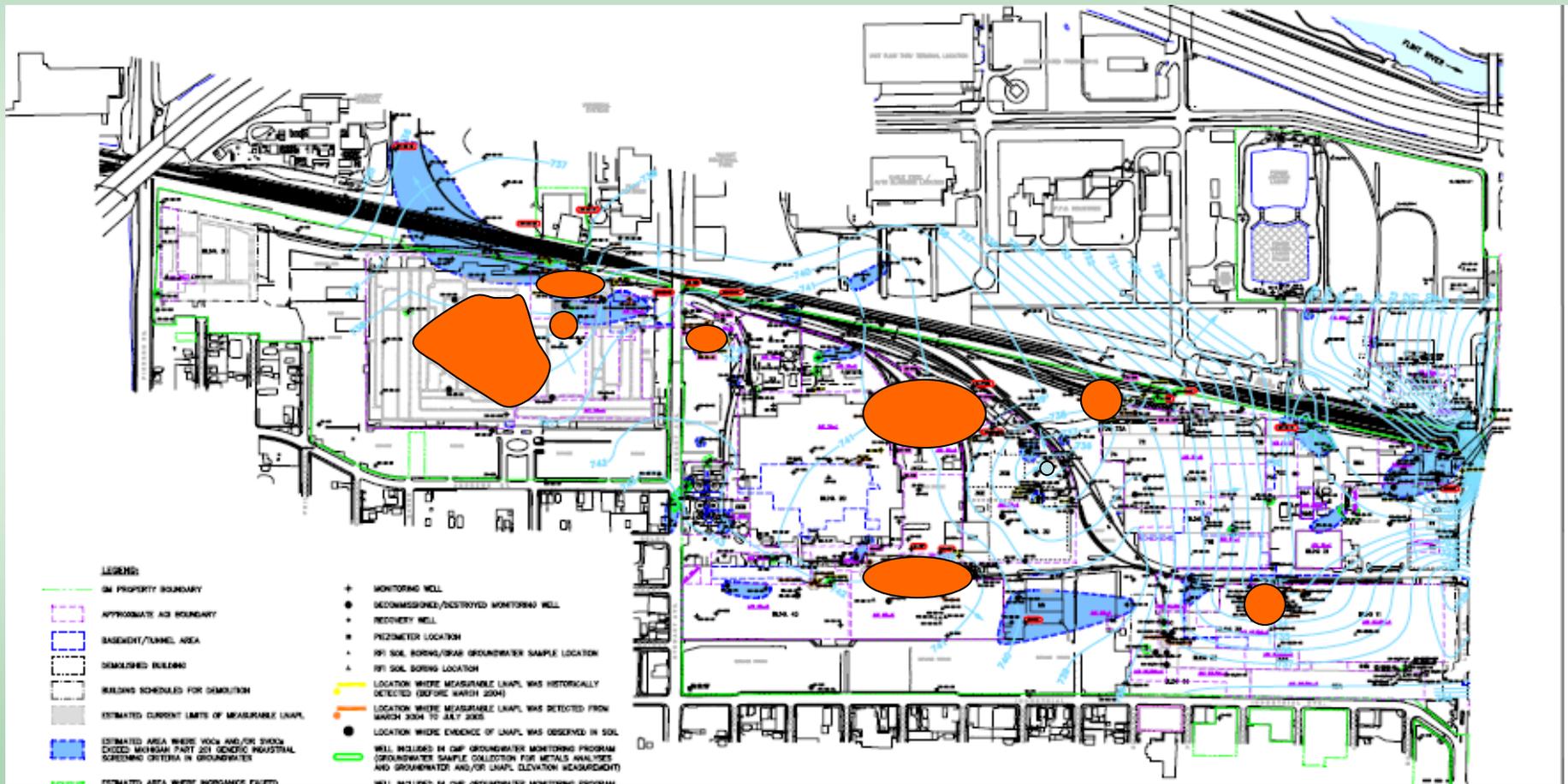
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- ❖ Metals (arsenic, lead, chromium, etc.)
- ❖ Polyaromatic Hydrocarbons (PAHs)
- ❖ Volatile Organic Compounds (VOCs)
- ❖ Light Non-Aqueous Phase Liquids (LNAPL)  
*(gasoline, hydraulic oils, diesel fuel)*
- ❖ Polychlorinated Biphenyls (PCBs)

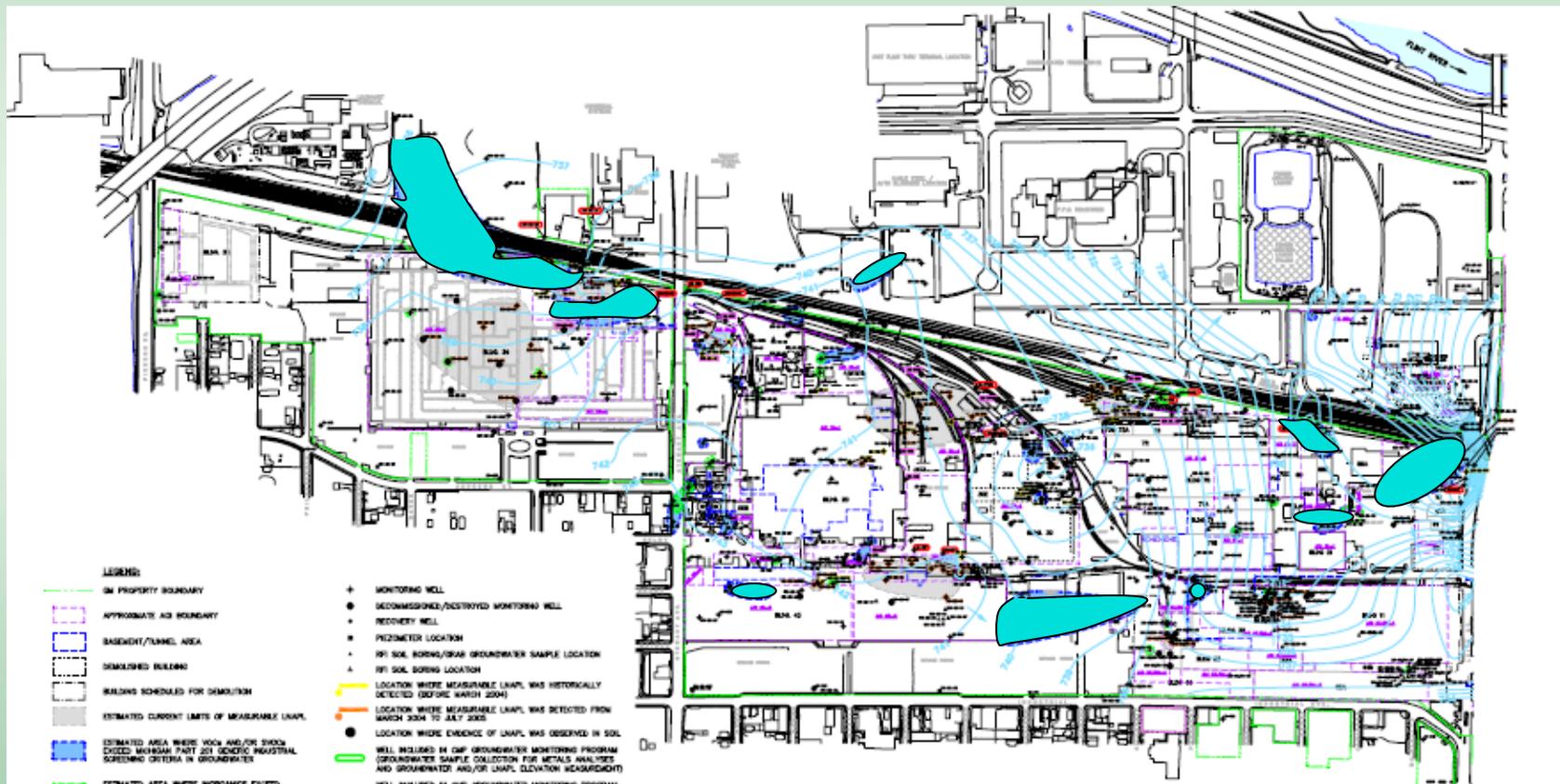
# Soil Contamination



# LNAPL Contamination



# Groundwater Contamination



# Challenges

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- ❖ Hydraulic oils (type of LNAPL) mixed with PCBs
  - ❖ Toxics Substances Control Act (TSCA) disposal
  - ❖ Hydraulic oils are more viscous
- ❖ Buildings are still standing
- ❖ Operations are currently active  
*(planned to cease by the end of 2010)*

# Next Steps for the Northend

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- ❖ MLC will submit to EPA a revised Corrective Measures Proposal for the Northend (by end of July)
- ❖ After EPA review, we will put out the CMP for public input (sometime in the Fall)
- ❖ EPA will issue a Statement of Basis (by the end of 2010)
- ❖ EPA will hold a public hearing on the SB and solicit comments (February/March 2011)
- ❖ EPA will issue a Final Decision (May 2011)



**Questions,  
Comments?**

# Contact Information

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Jill Groboski, Project Manager

[groboski.jill@epa.gov](mailto:groboski.jill@epa.gov)

312-886-3890

Rafael Gonzalez, Community Involvement Coordinator

[gonzalez.rafaelp@epa.gov](mailto:gonzalez.rafaelp@epa.gov)

312-886-0269

