NuHart State Superfund Site: Remedial Investigation Review

NAG NEIGHBORS ALLIED FOR GOOD GROWTH

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Environmental Stewardship Concepts, LLC
November 2, 2015

This evening

- Superfund
- The NuHart Site
- Remedial Investigation
- Health issues with the site chemicals
- Questions
- Comments from DEC
- Adjourn 8:30

Involving the Community



NuHart Superfund Site

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Neighbors Allied for Good Growth applies for Technical Assistance Grant

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Technical Advisor Hired: Environmental Stewardship Concepts, LLC

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The Technical Advisor helps the community understand the technical reports and the cleanup process, and provides comments to the State on behalf of the community

New York State Superfund Site

- NuHart: State Superfund Site
- Cleanup managed by NY State Department of Environmental Conservation (DEC)
- Located in the Greenpoint community in Brooklyn



Photo Credit: greenpointers.com



Photo Credit: NAG

NuHart Superfund Site Map



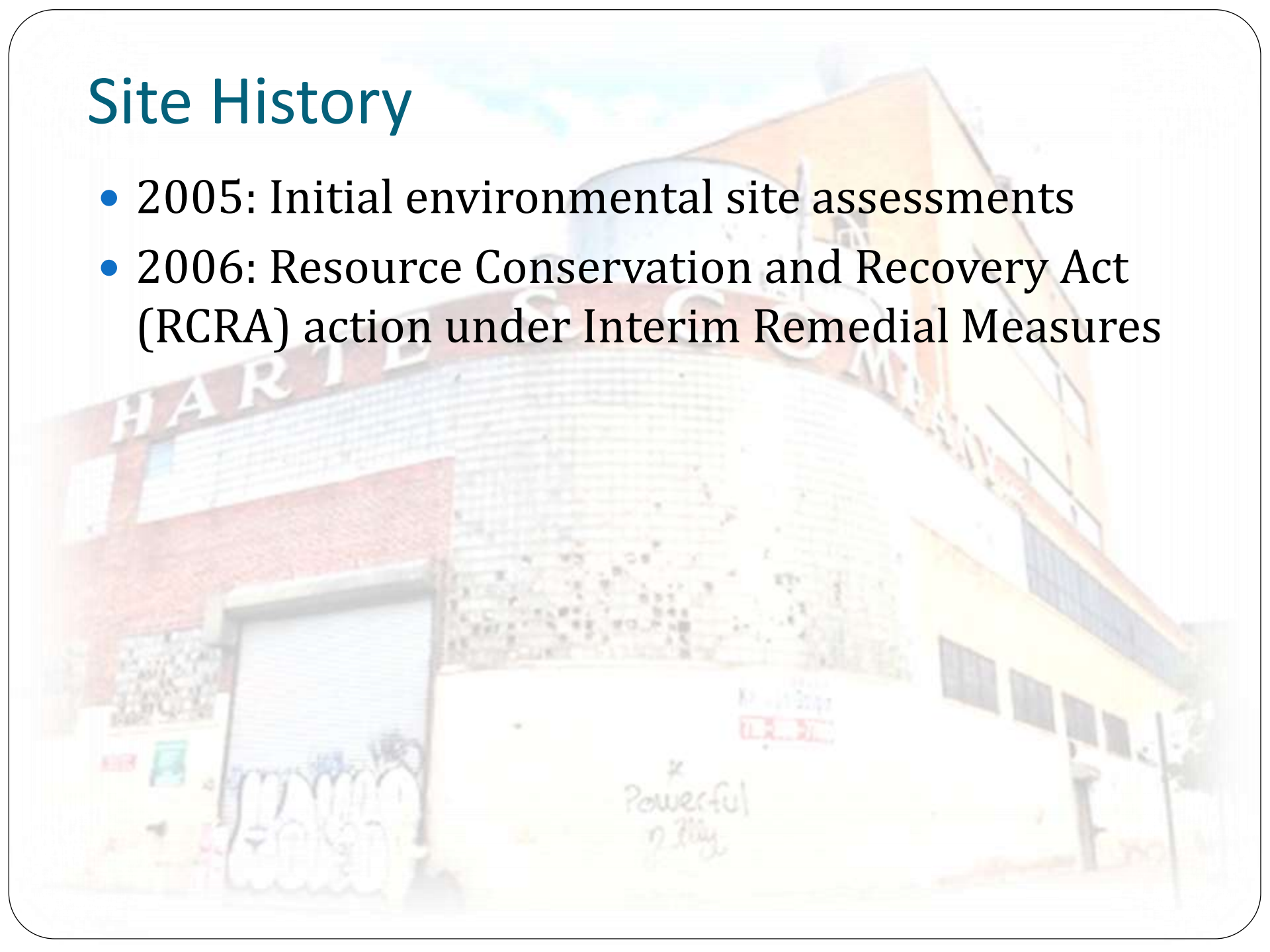
Site History

- Long industrial history at the site
- Before 1950: Manufacture of metal, soap, and water-proofing materials.
- After 1950: production, storage, and shipping of plastic and vinyl products
- Operations ceased in 2004



Site History

- 2005: Initial environmental site assessments
- 2006: Resource Conservation and Recovery Act (RCRA) action under Interim Remedial Measures

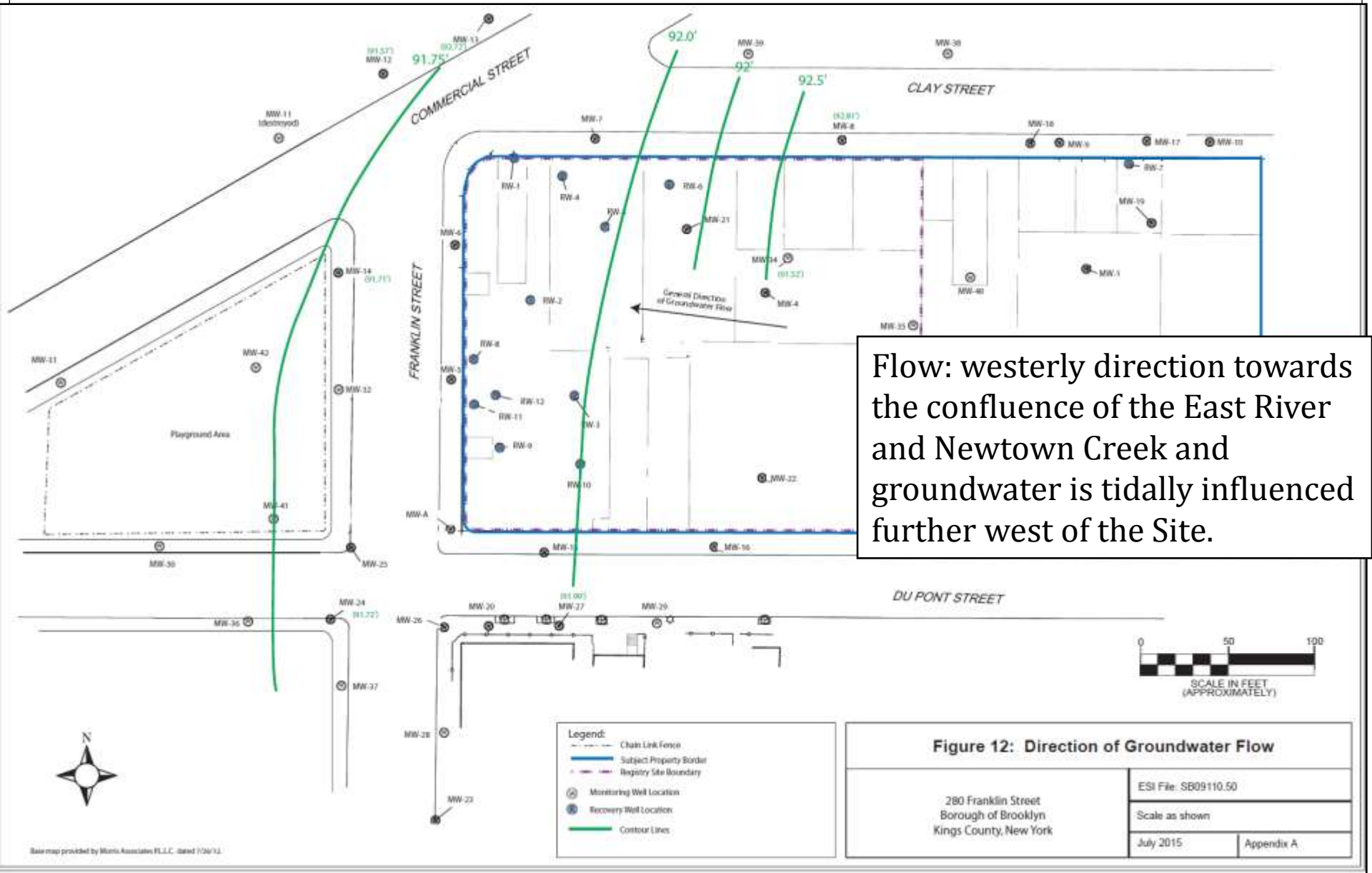


NuHart State Superfund Site



- July 2010: Identified as a NYS Superfund Site
- Site Characterization
- Remedial Investigation
- Feasibility Study
- Proposed Remedial Action Plan
- Record of Decision
- Remedial Design and Construction

Groundwater Flow



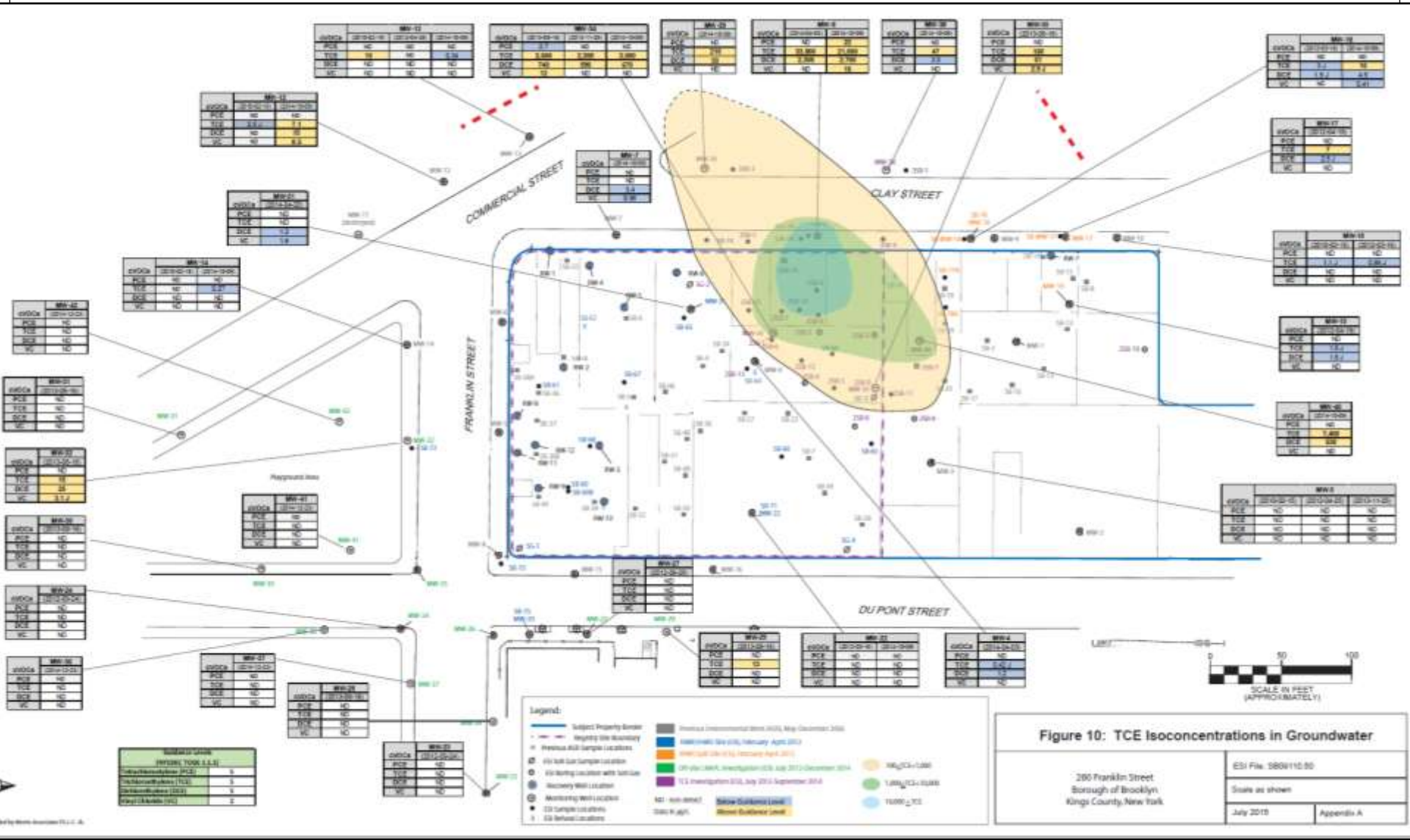
Flow: westerly direction towards the confluence of the East River and Newtown Creek and groundwater is tidally influenced further west of the Site.

Contaminants of Concern

- Tricloroethylene (TCE) is a volatile organic compound (VOC) impacting groundwater, soil, and soil vapor, on and off site.

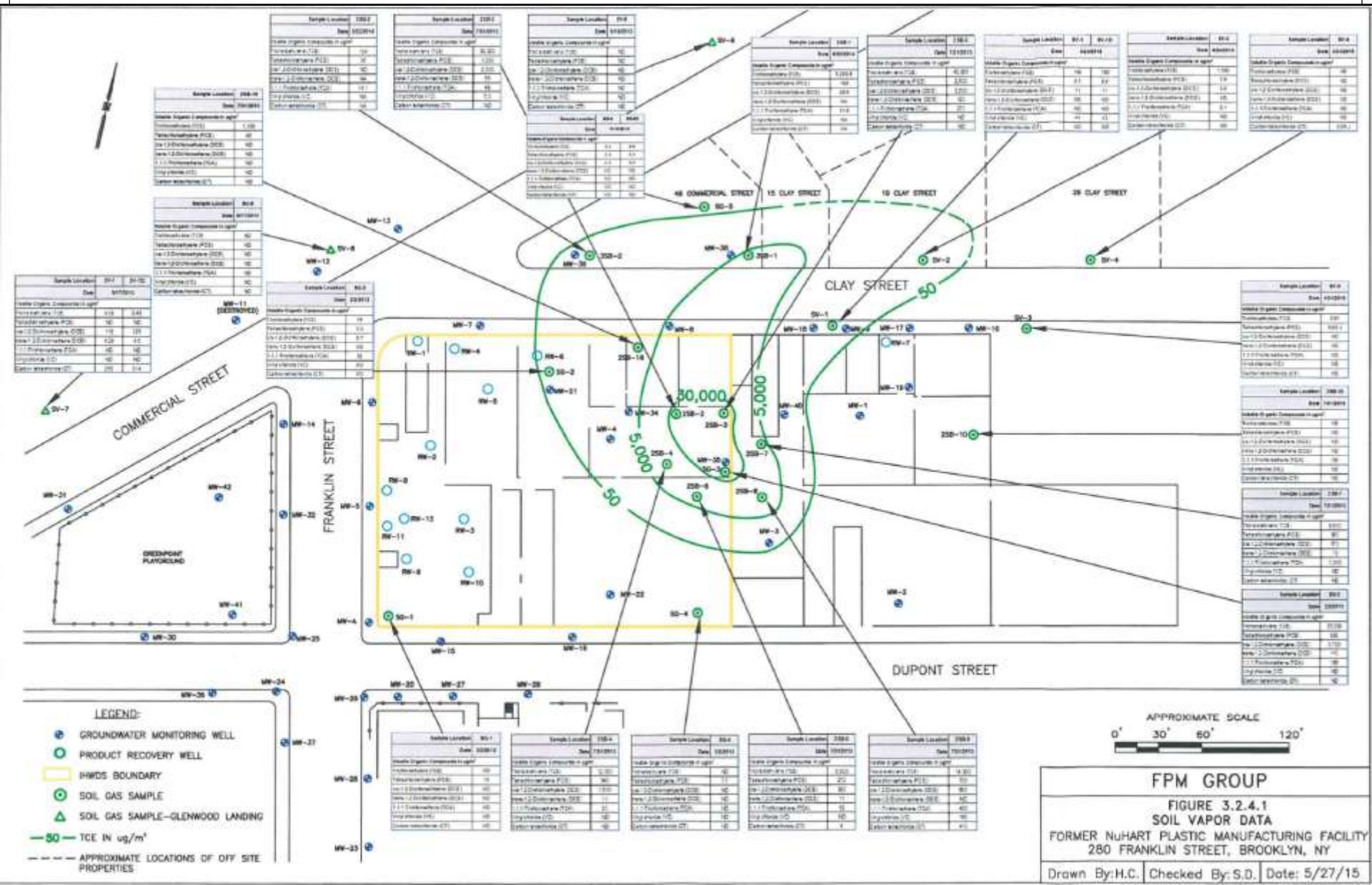
- Light non-aqueous phase liquid (LNAPL) consists of phthalate and oil mixtures released from tanks and pipes. LNAPL is impacting soil and interacting with groundwater on and off site

TCE in Groundwater

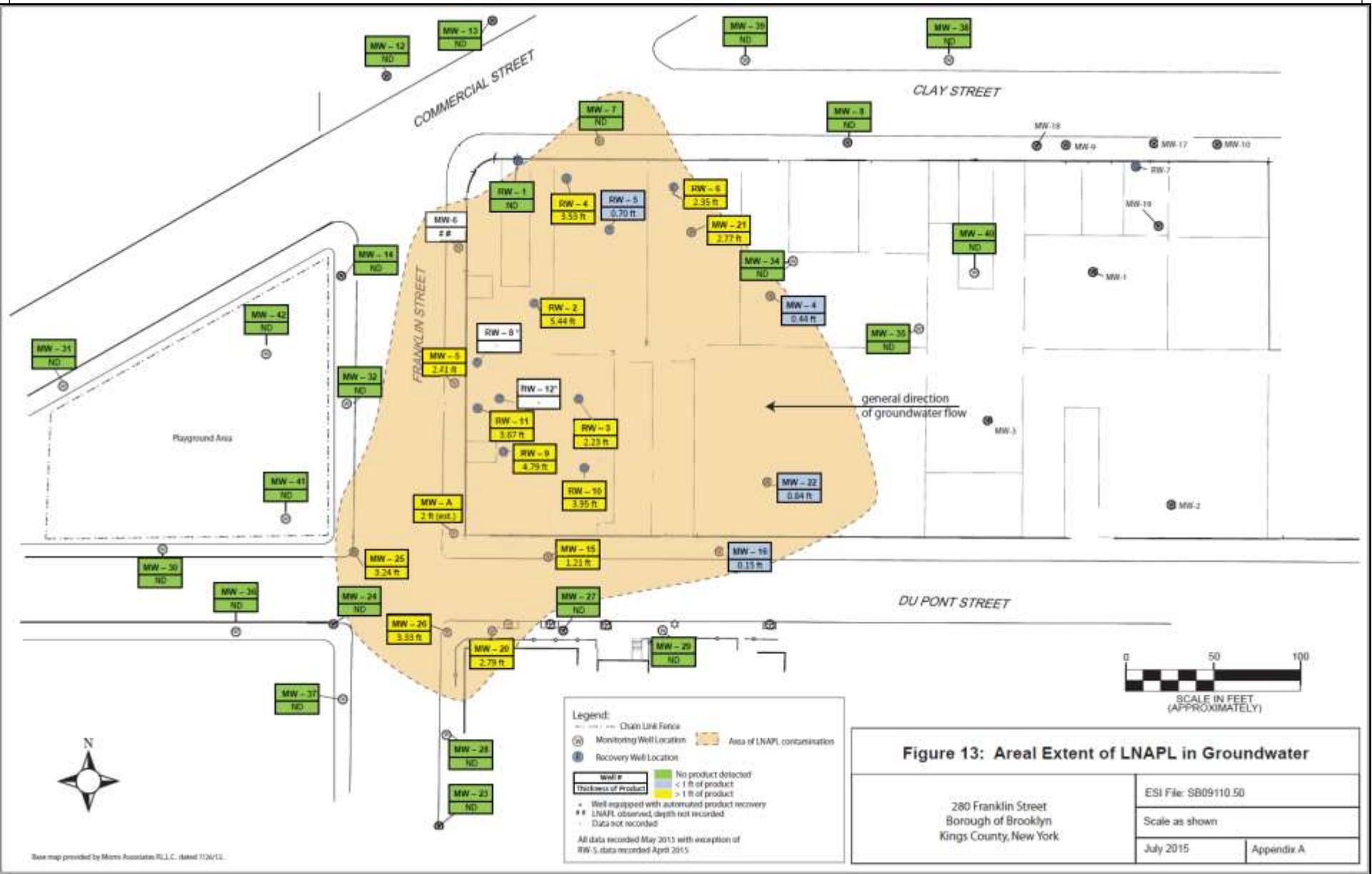



These are the locations where co-located indoor air and sub-slab soil vapor samples be collected
These are the locations where soil vapor samples will be collected
TCE concentrations in soil vapor
Commercial St
Commercial
New Residential
Vacant
134
SSB-02
6130
SSB-01
Clay St
Residential
ND
59
43000 (peak)
5600
12000
14000
6800
IHWDS
Vacant Commercial
Dupont St
Greenpoint Playground
Eagle St

TCE Soil Vapor



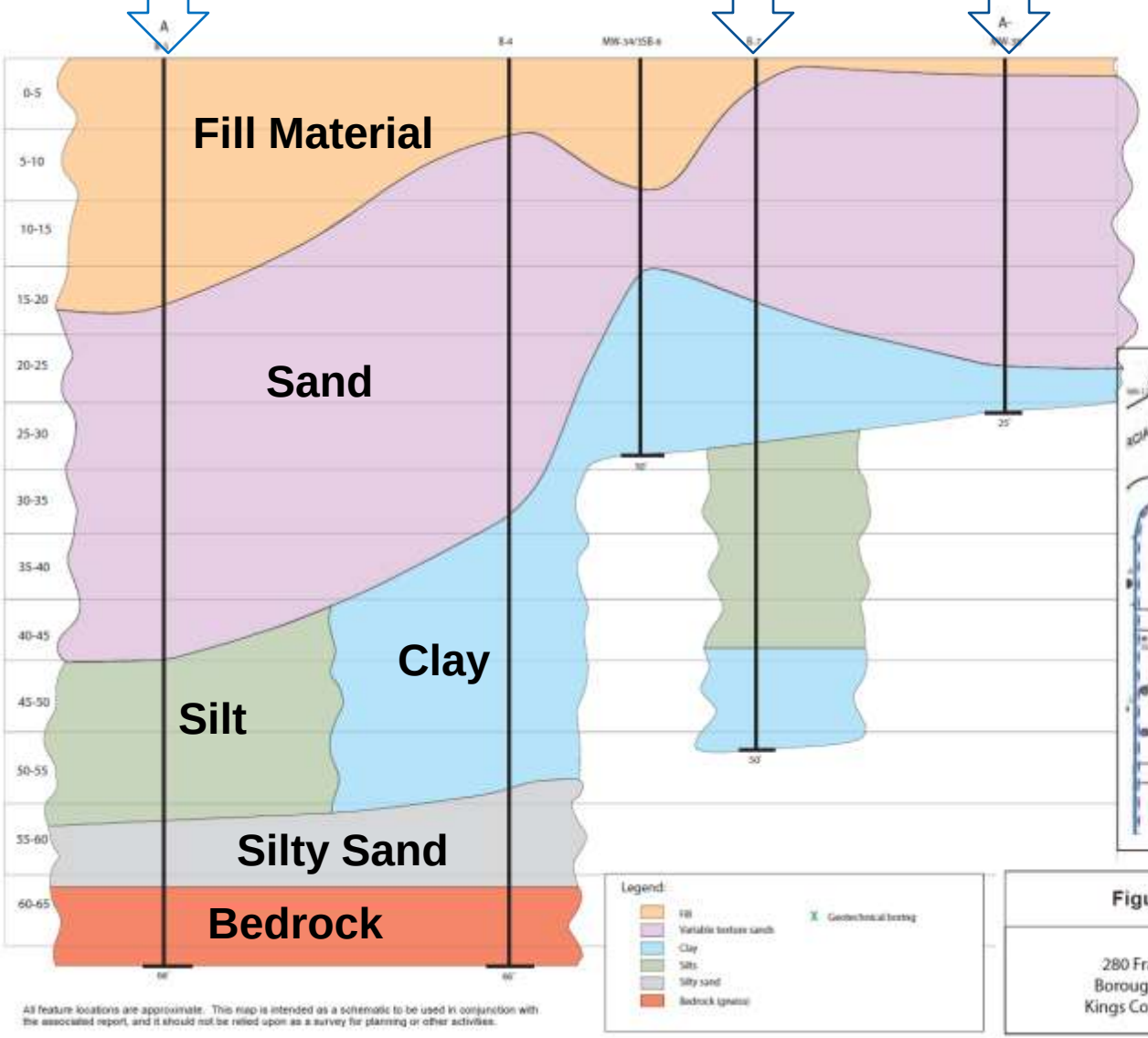
LNAPL in Groundwater



Southwest Corner

Northeast Corner

Offsite



Cut a cross-section of the Site

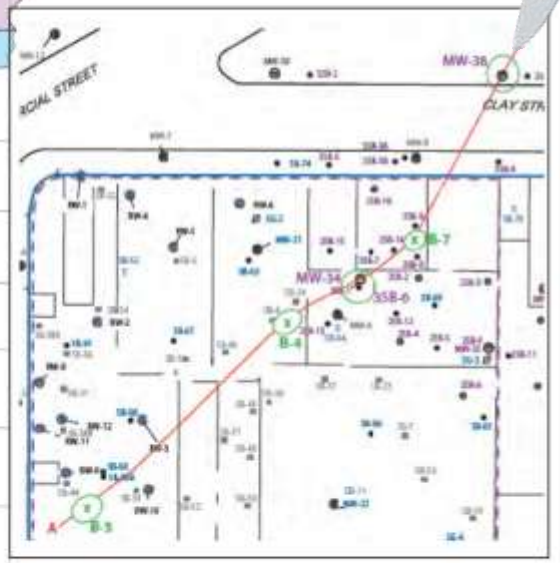
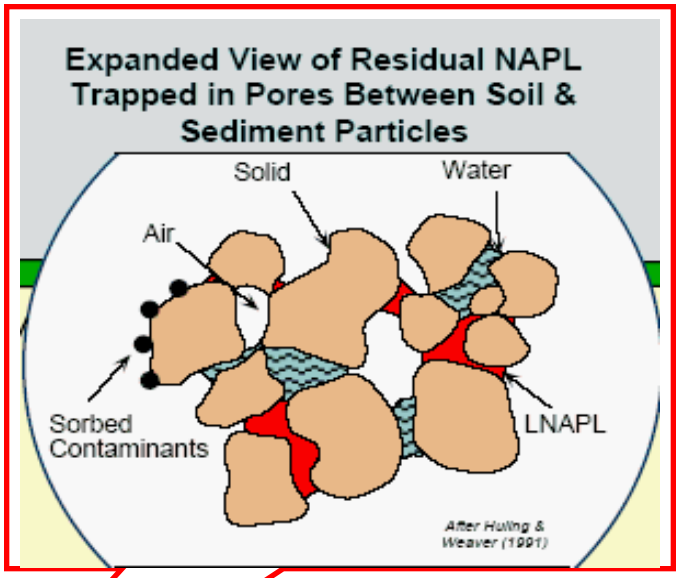


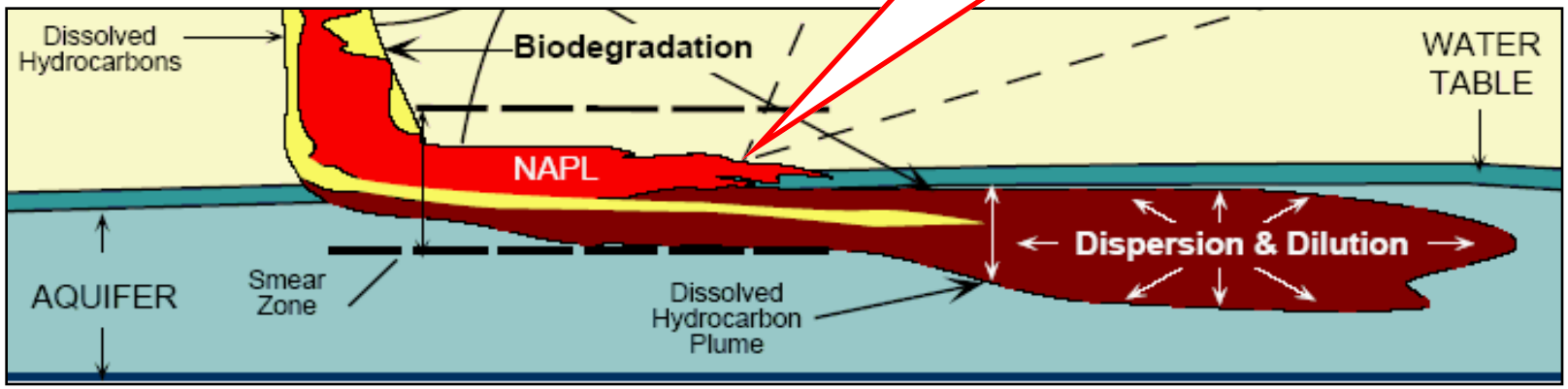
Figure 4: Geological Cross Section

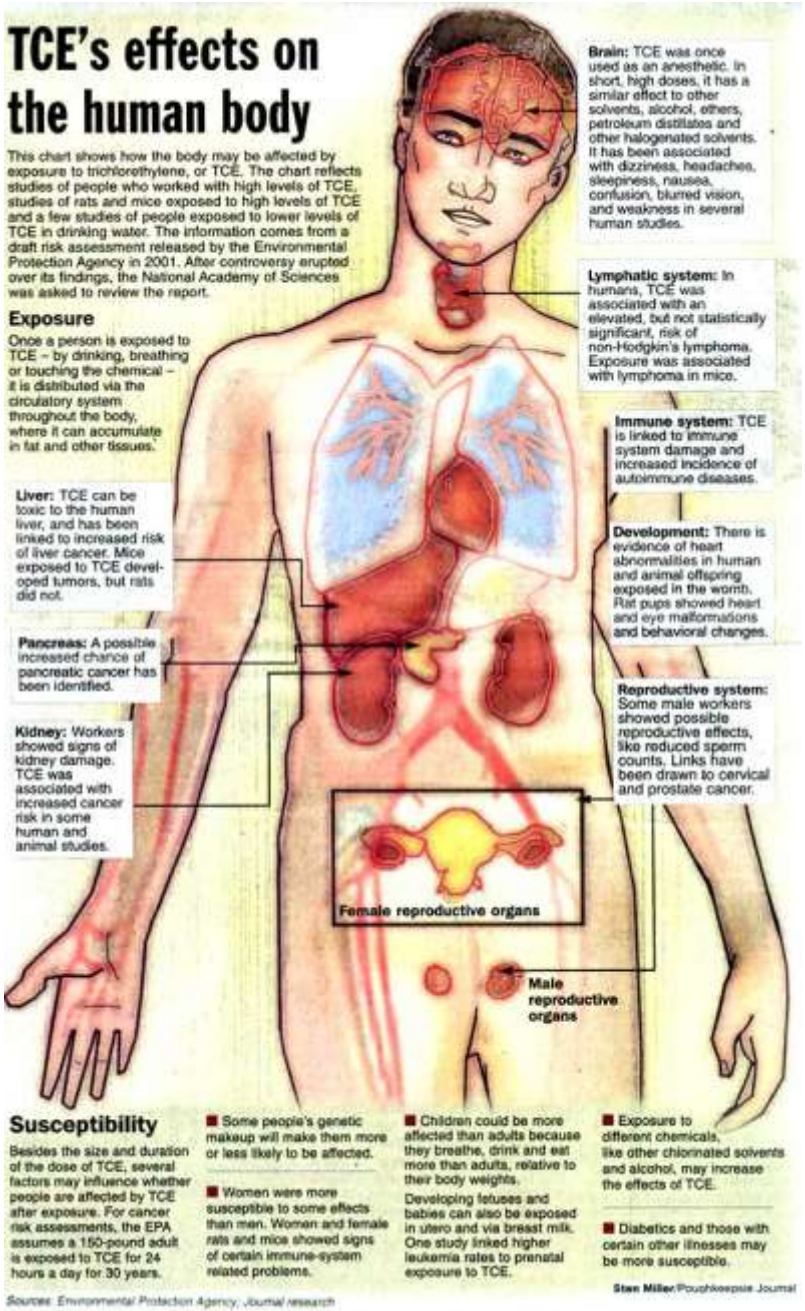
280 Franklin Street Borough of Brooklyn Kings County, New York	ESI File: SB09110.50	
	Not to scale	
	July 2015	Appendix A

How does LNAPL interact with groundwater?









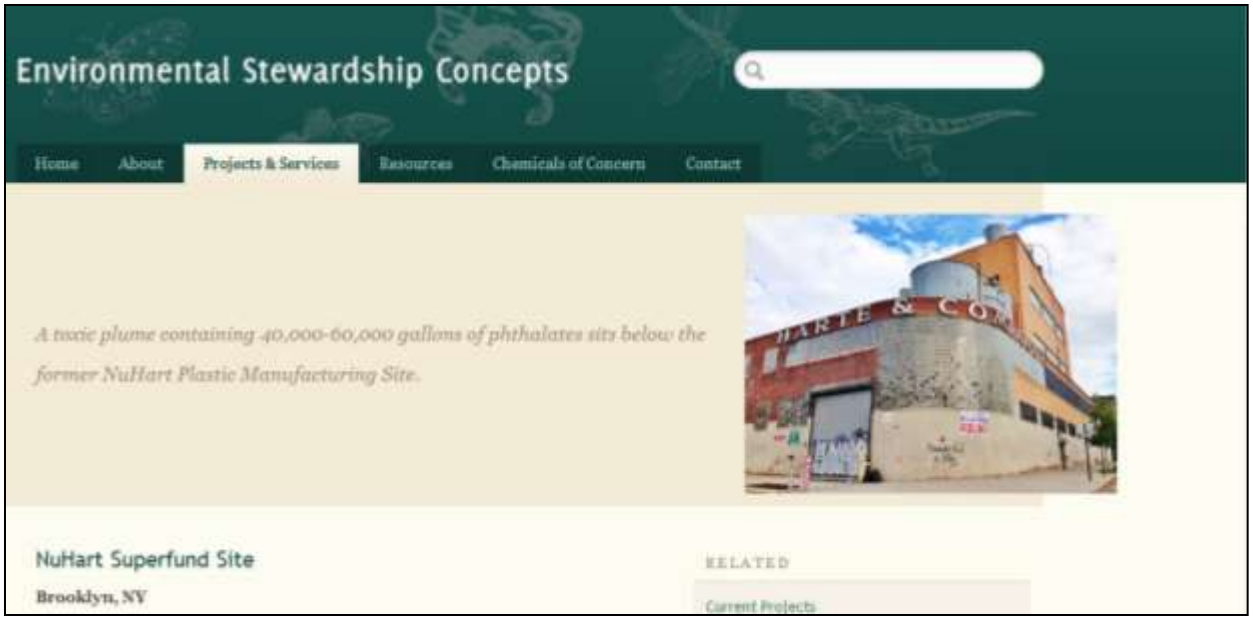
http://frobbi.org/watershed/media/images/PoJo_02_20_05-1s.jpg

Future Use of the Site

- The Site's future use is expected to be either "restricted-residential" or "mixed use" but no specific redevelopment designs have been determined.
- ESC recommends cleanup to a residential standard because the developer indicates this site is intended to be a residential property. Cleanup to a residential standard is more stringent than a cleanup standard that includes commercial and industry.

Information Repository

- NuHart Site information: a section of community oriented resources accessible online
  - Factsheets
  - Presentations
  - References
  - Websites



http://www.estewards.com/services/current-projects/nuhart-site/

NAG NEIGHBORS ALLIED FOR GOOD GROWTH

Next Meeting and Other Updates…

Go to the document repository at the Greenpoint Library to read the Remedial Investigation and other reports

Sign up to get email updates

Neighbors Allied for Good Growth:

http://nag-brooklyn.org/