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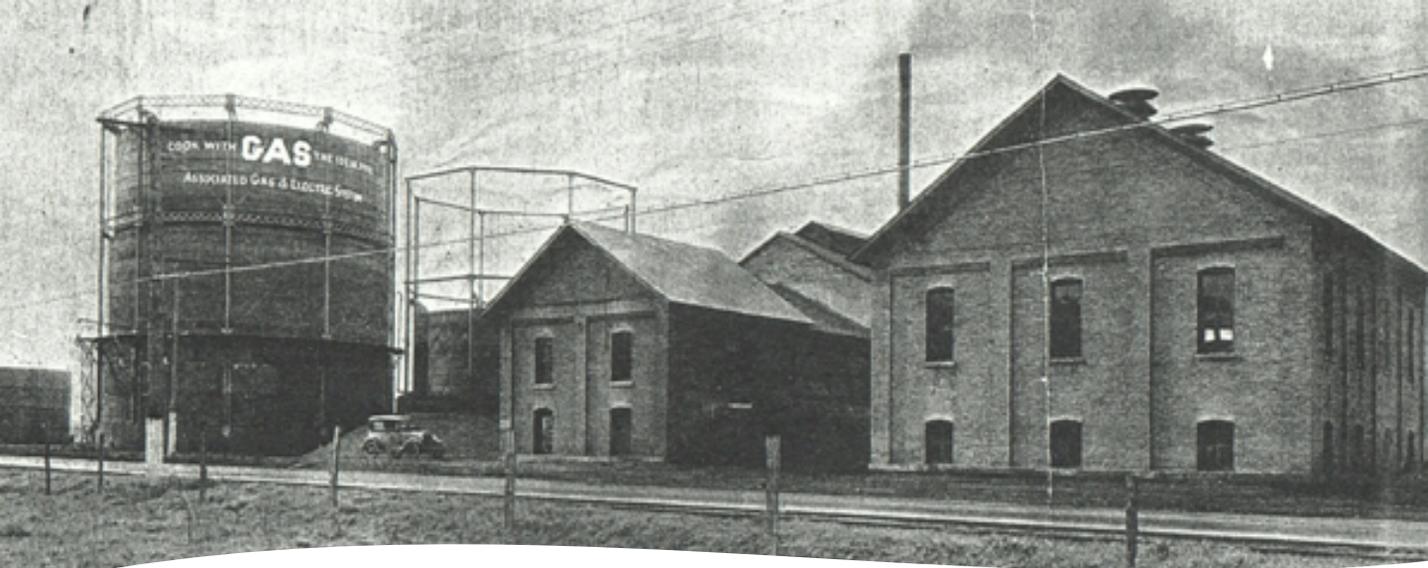
**Equity Former Manufactured Gas
Plant (MGP) Site 224050
Interim Remedial Measure
222 Maspeth Ave Parcel
Public Meeting
November 18, 2021**

Introduction

Goals of Tonight's Meeting

- Brief Discussion of NYSDEC MGP Program
- Overview of Site
- Discussion of Remediation Activities
 - Interim Remedial Measures (IRM)
- Questions and Comments





MGP Overview

MGPs Used Coal and Oil To Make Gas
Lighting—The Gaslight Era, late 1800s
Cooking and Heating
MGPs Replaced by Natural Gas
Consolidation in 1930s
Most Closed by 1955
Last NY State Plant Closed 1972



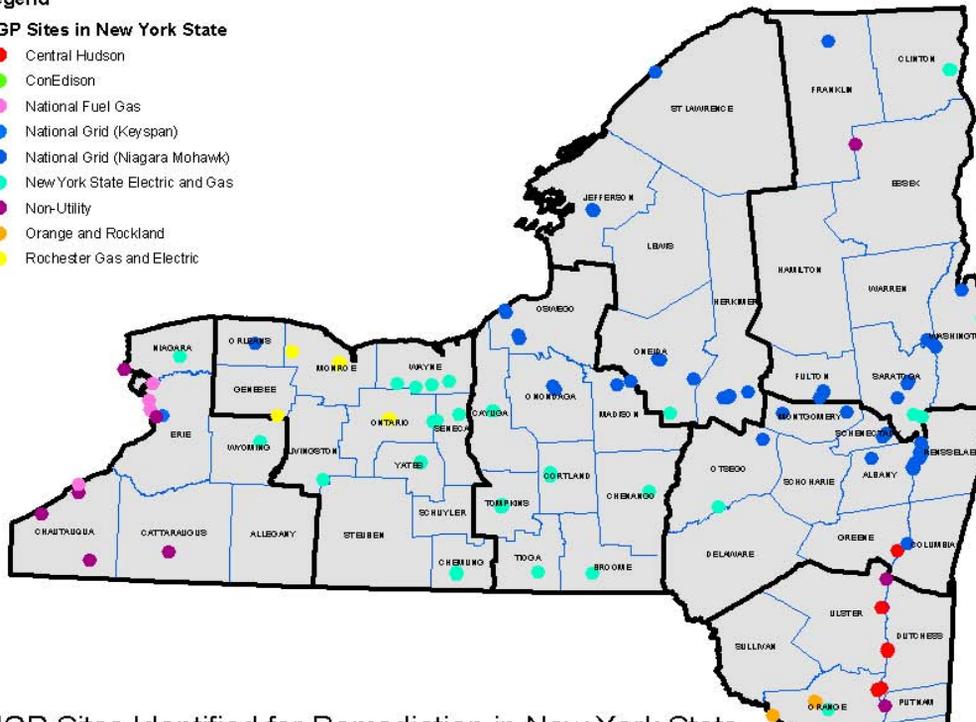
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Legend

MGP Sites in New York State

- Central Hudson
- ConEdison
- National Fuel Gas
- National Grid (Keyspan)
- National Grid (Niagara Mohawk)
- New York State Electric and Gas
- Non-Utility
- Orange and Rockland
- Rochester Gas and Electric

Over
250
MGPs in
NYS



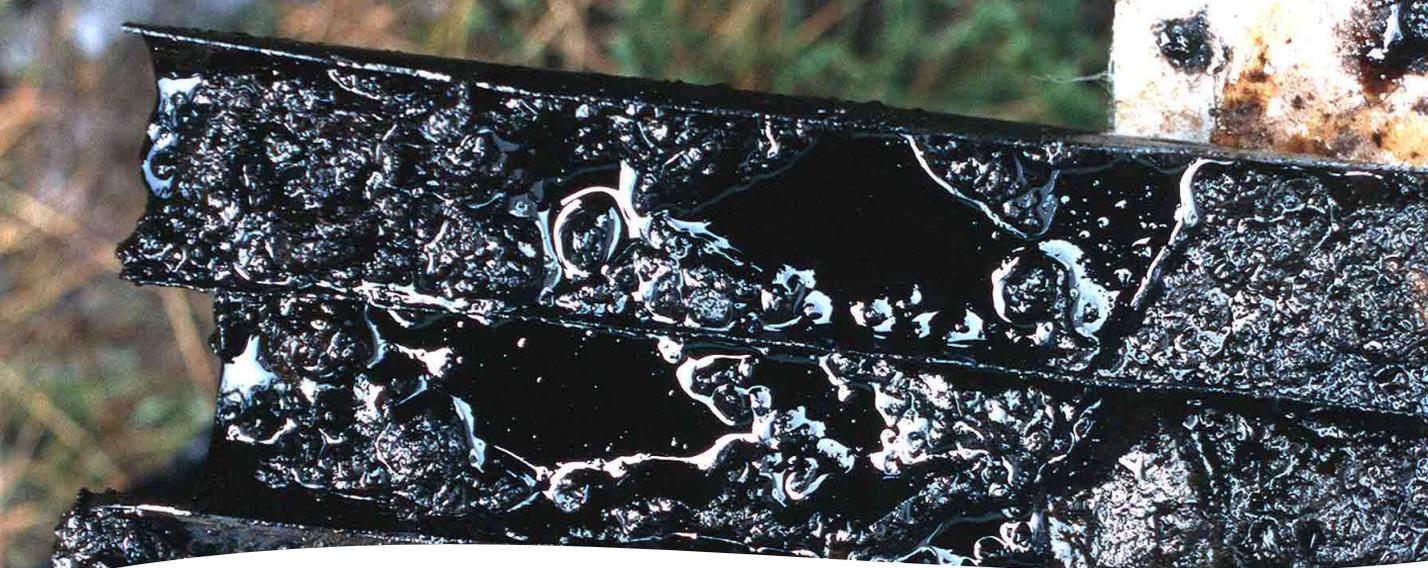
MGP Sites Identified for Remediation in New York State as of September 2009

These are the MGP sites identified to date by the NYSDEC.
An effort to identify additional utility and non-utility sites is ongoing.

0 350,000 700,000 Feet



Closeup Available



MGP Contamination

“Coal Tar”

Not Really a Tar

Not Very Viscous

Oily Consistency

Slightly More-Dense than Water

Industrial Uses

Objectionable Odors

Contains Compounds Such As:

Benzene/ Toluene/ Ethylbenzene/ Xylenes

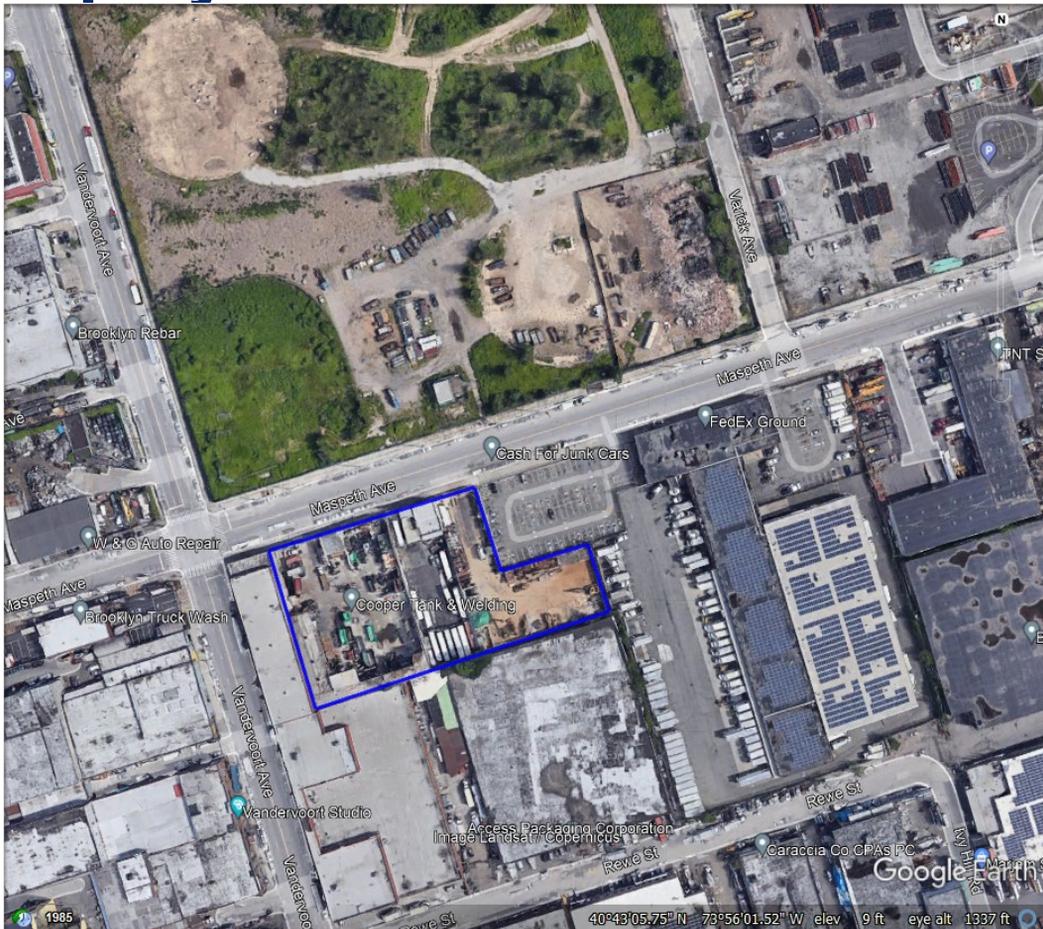
Polycyclic Aromatic Hydrocarbons



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Equity MGP Location – Brooklyn, NY

Former
Equity
property
boundary



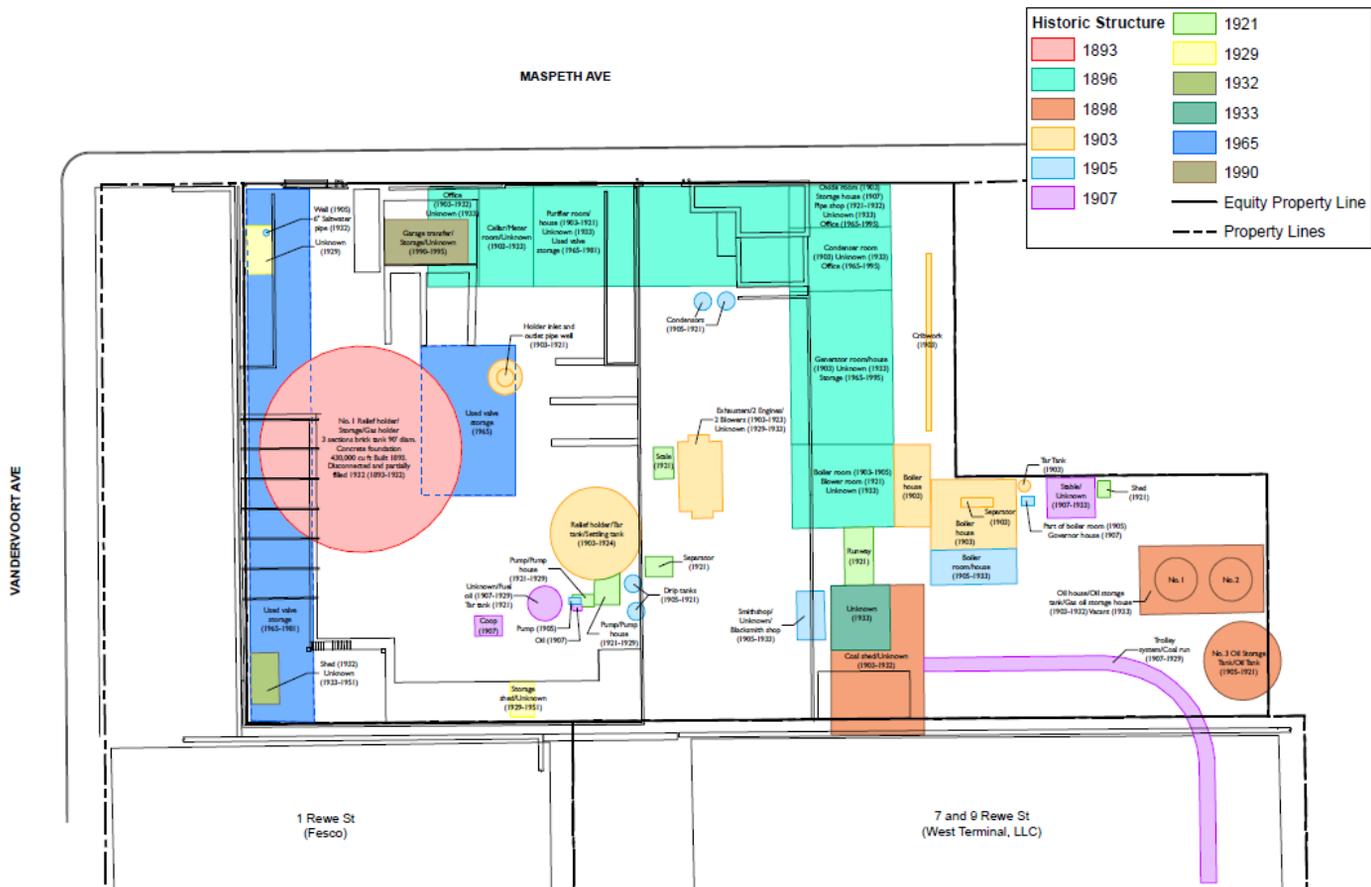
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Remedial History

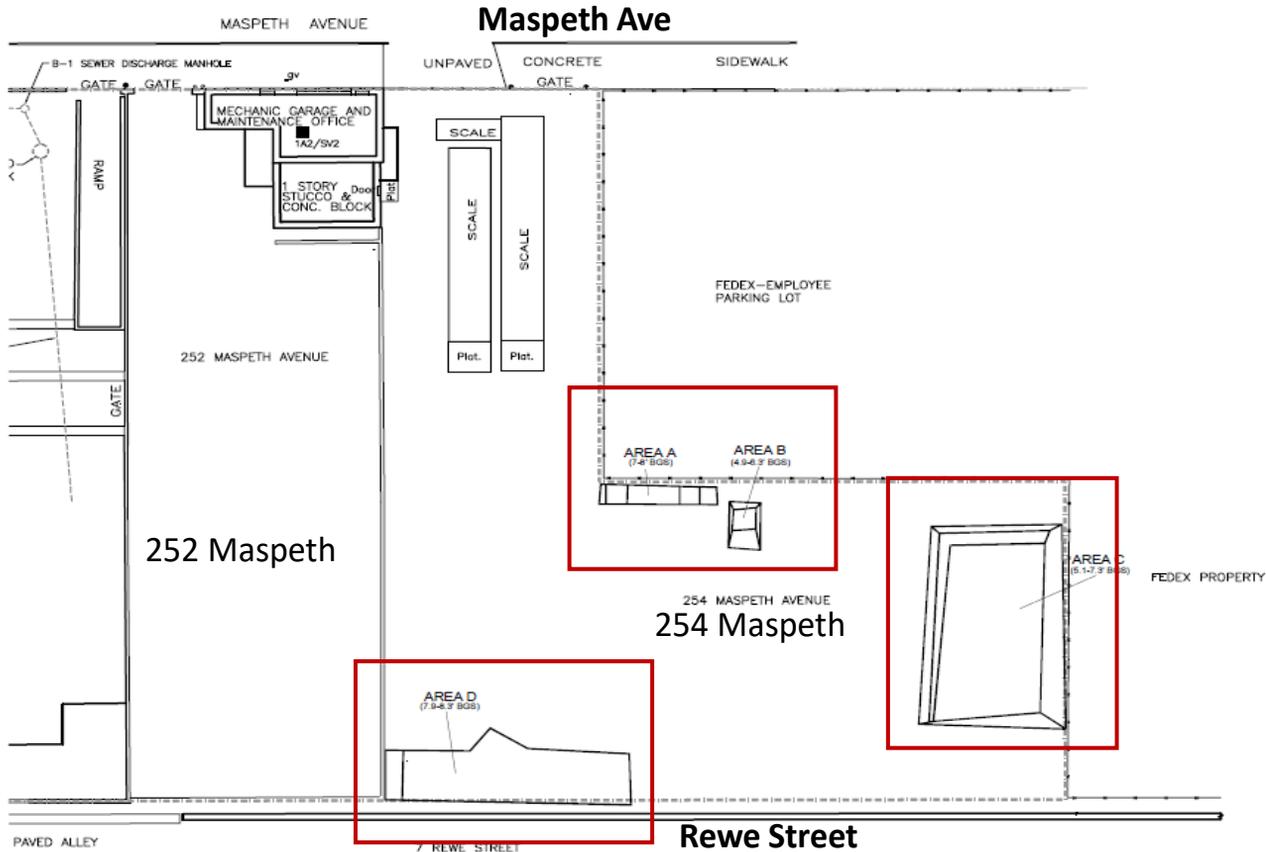
- Sitewide RI conducted 2009-2015
- Interim Remedial Measure (2012) Shallow Soil Excavation
- Interim Remedial Measure (2013) Non-Aqueous Phase Liquid (NAPL) Recovery System



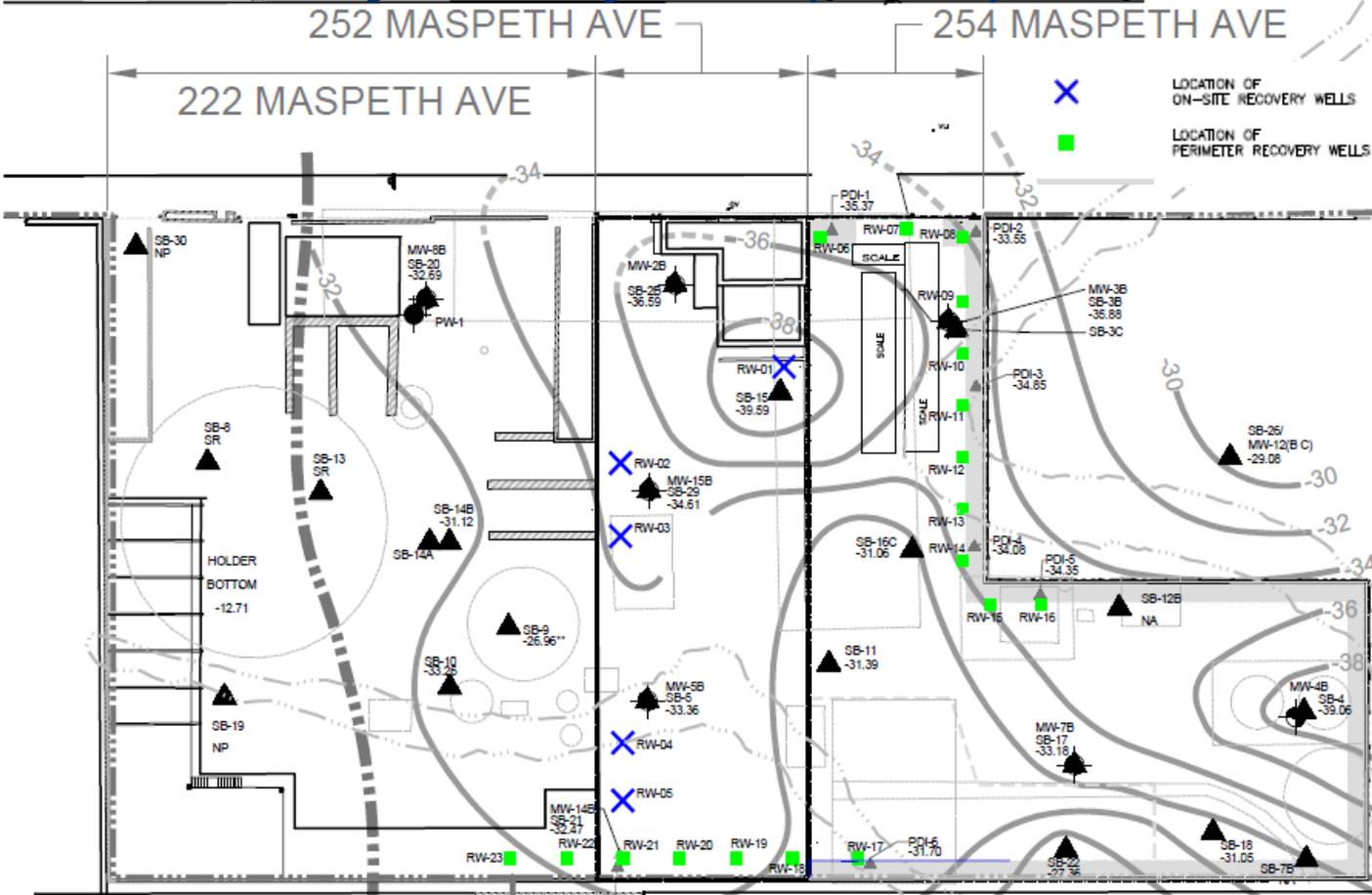
Equity Former MGP Structures



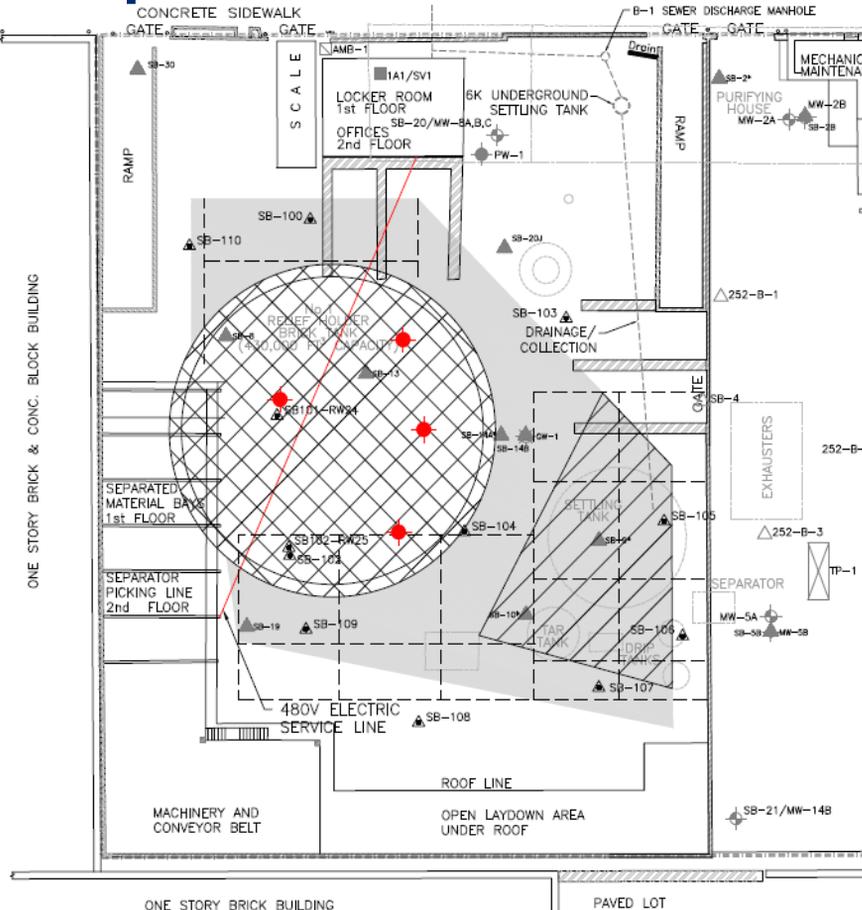
IRM Shallow Soil Excavation 2012



IRM Recovery Well System (NAPL) 2013



Proposed IRM Remediation



- In-Situ Solidification
- Excavation of Holder Tank Contents
- Pilot Test- Four deep NAPL Recovery wells Beneath Holder

LEGEND:



LOCATION OF PROPOSED DEEP NAPL RECOVERY WELL FOLLOWING EXCAVATION OF HOLDER CONTENTS



SOLIDIFY NAPL TO INTERMEDIATE CLAY (~45 FT BGS)



EXCAVATE HOLDER CONTENTS TO 26 FT BGS



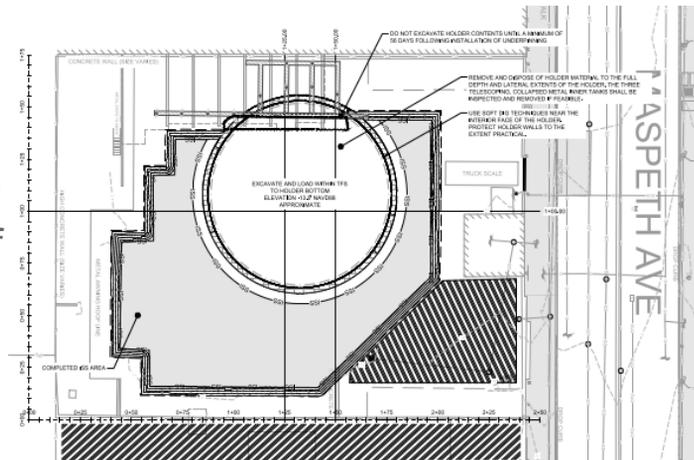
ISS PRE-EXCAVATION TO 10 FT BGS



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IRM Scope of Work

- In-Situ Soil Stabilization/Solidification (ISS)
 - Proven remedial technology applied at several MGP sites across NYS
 - Safe alternative to excavation
 - Provides durable treatment of MGP impacted soils
- Gas Holder Excavation
 - Performed within a Temporary Fabric Structure (TFS) to control odors and vapors



IRM Scope of Work – In-Situ Soil Stabilization/Solidification



- Excavate ISS Platform
- Remove Obstructions
- Complete Soil Mixing to Design Grades

IRM Scope of Work - Gas Holder Excavation



- Underpin Bin Structures
- Install TFS
- Dewater Gas Holder
- Excavate Gas Holder Contents (Off-site Disposal)
- Backfill Holder
- Remove TFS

Construction Methods

In-situ solidification (ISS)



ISS is an established remediation treatment technology used to prevent migration of and exposure of MGP contaminants in media including soil.

It involves the mixing of reagents with contaminated soil to create a low permeability mass which encapsulates the contamination in the soil in place



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Excavation:



Prepares area for
ISS equipment.

Removes
Obstructions

Excavation aids ISS
treatment to meet
design depth.



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Construction Controls



Air Monitoring



During the IRM work a site-specific Community Air Monitoring Plan (CAMP) will be required.

The CAMP identifies measures and/or actions to ensure that the public living and working near the site are protected from exposure to site contaminants during intrusive activities



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Temporary Structure



**Temporary
Structures for
Odor Control**

Odor and Vapor
Control.

Ventilation is treated
prior to discharge



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Decontamination



Decontamination of:

- Vehicles
- Equipment
- Personnel

Decontamination
Residuals
Management



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Role of the NYS Department of Health

- Work with NYSDEC to identify nature and extent of contamination to evaluate potential exposures
- Evaluate data and make recommendations to address any potential exposure and evaluate the need for additional information
- Ensure that remedy selected is protective of public health



What is exposure?

- Physical contact with a chemical or substance
 - Inhalation (breathing)
 - Direct contact (touching)
 - Ingestion (eating/drinking)
- One or more of these physical contacts must occur before a chemical has the *potential* to cause a health problem
- Exposure does not necessarily mean that health effects will occur



Potential Exposure Pathways

Inhalation

Direct Contact

Ingestion



Questions/Comments?

COMMENT PROCEDURES

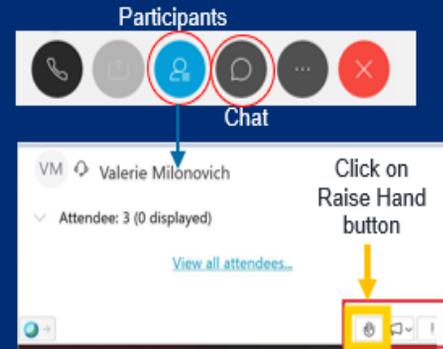
- To type in a question or comment, or if you're having technical difficulties, you can use the 'Chat' feature during the meeting.
- To indicate that you would like to make an oral comment, select the 'Raise Hand' button. The host will call on you and unmute your audio to make your statement.

**Note: This requires audio connection.*

- Call-in Users: Press *3 to raise your hand.
- You can also call **518-402-5969** if you're having technical difficulties.

From a PC/Desktop Computer

At bottom of screen:



From the Webex Mobile App

Click button at upper right to open Participants Panel, then Chat button at bottom.



Click button at bottom to find the Raise Hand button.



Who To Contact

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