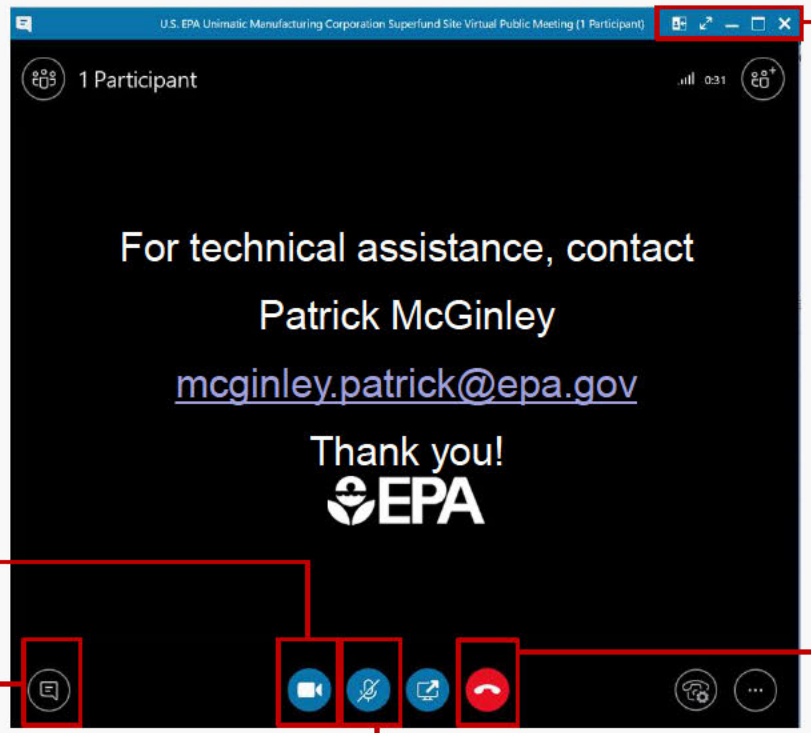
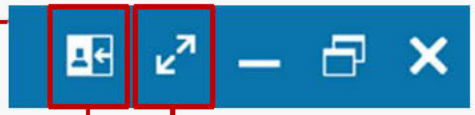
Skype Meeting Controls





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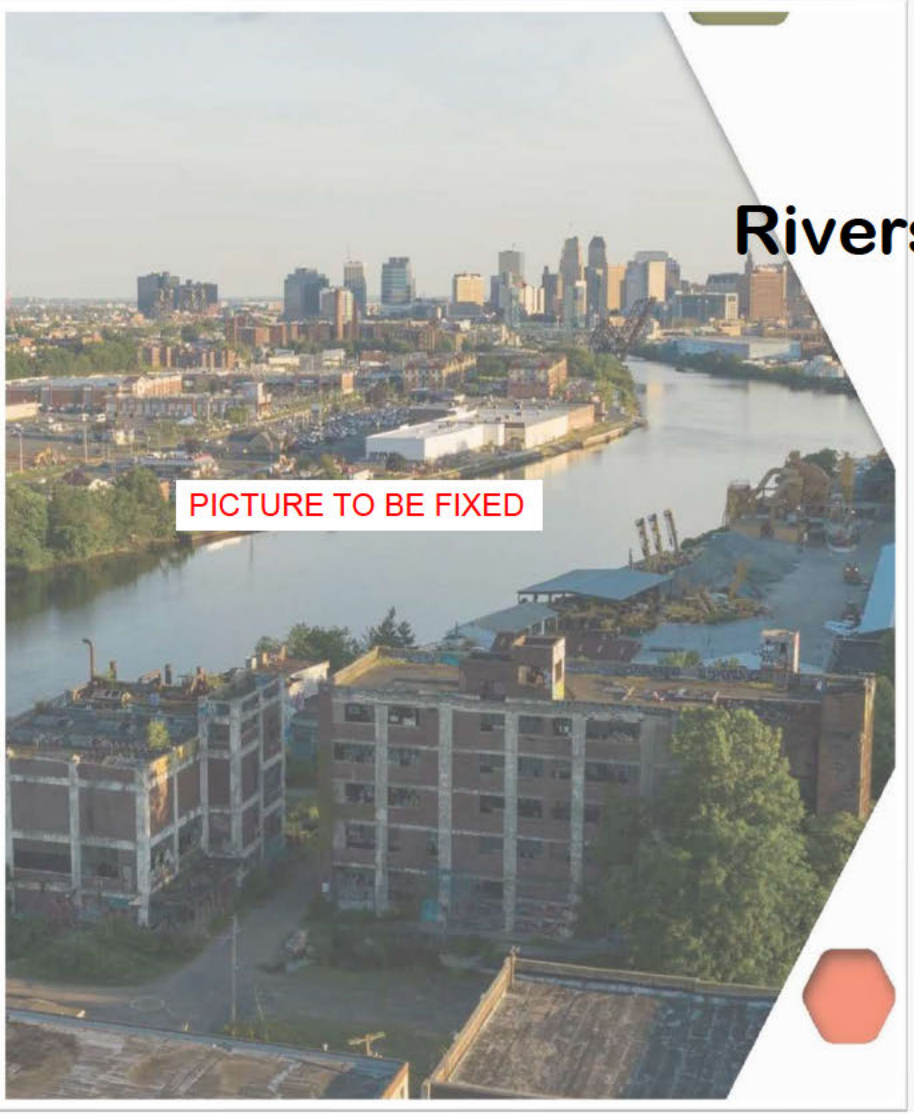

Riverside Industrial Park Superfund Site

Proposed Plan
Virtual Public Meeting

Wednesday, August 5, 2020
7:00 PM to 9:00 PM

Agenda

Introductions . . . . . .Shereen Kandil

Presentation. . . . . Josh Smeraldi

Questions and Comments . . . . . EPA Team

Closing Comments . . . . . .Shereen Kandil

Who's Who at EPA

Josh Smeraldi
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EPA relies on public input to ensure that the concerns of the community are considered in selecting an effective remedy for the Superfund site. EPA encourages the public to review the Proposed Plan and submit comments.

Meet Our Team

Agenda

Introductions . . . . . .Shereen Kandil

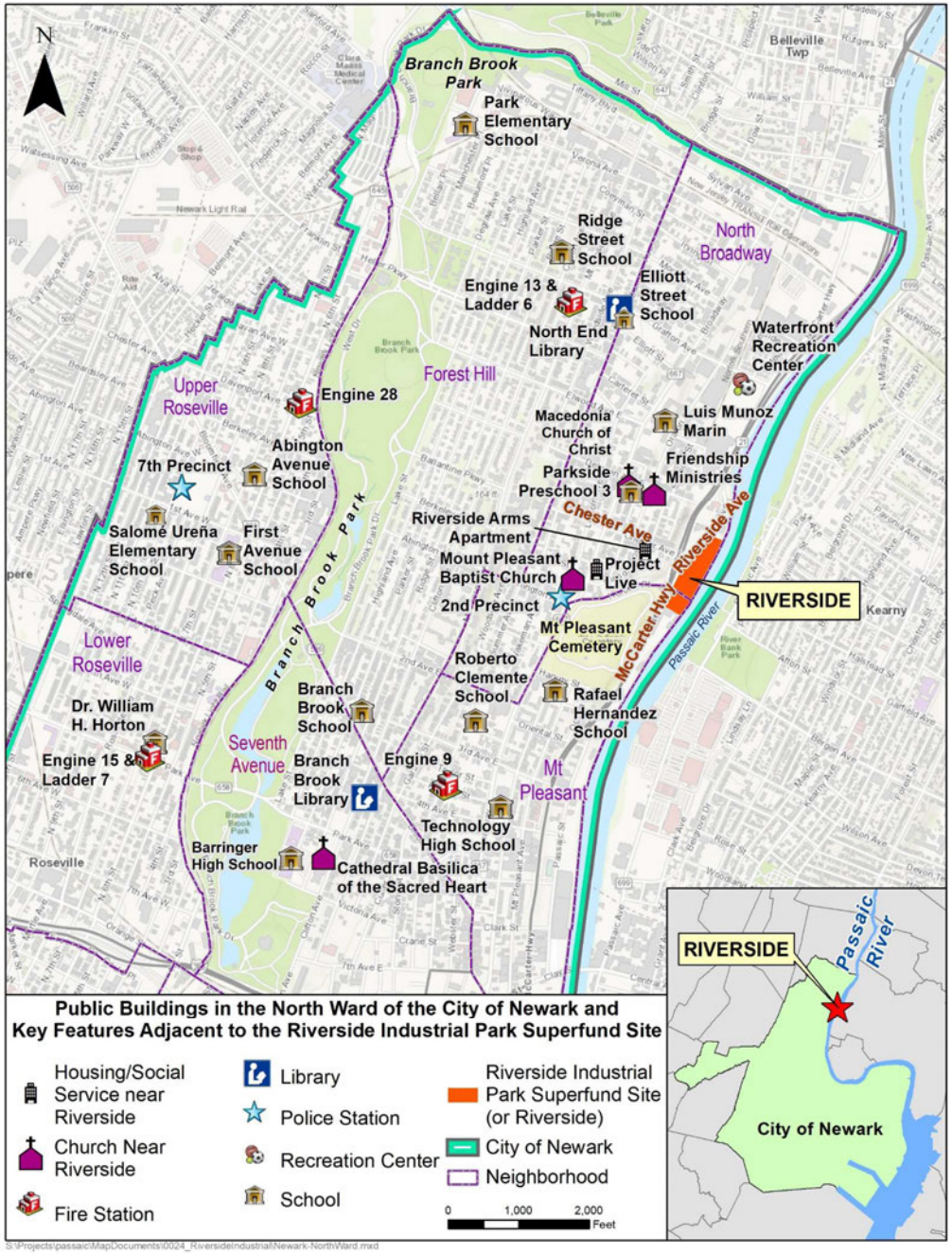
Presentation. . . . . Josh Smeraldi

Questions and Comments . . . . . EPA Team

Closing Comments . . . . . Shereen Kandil

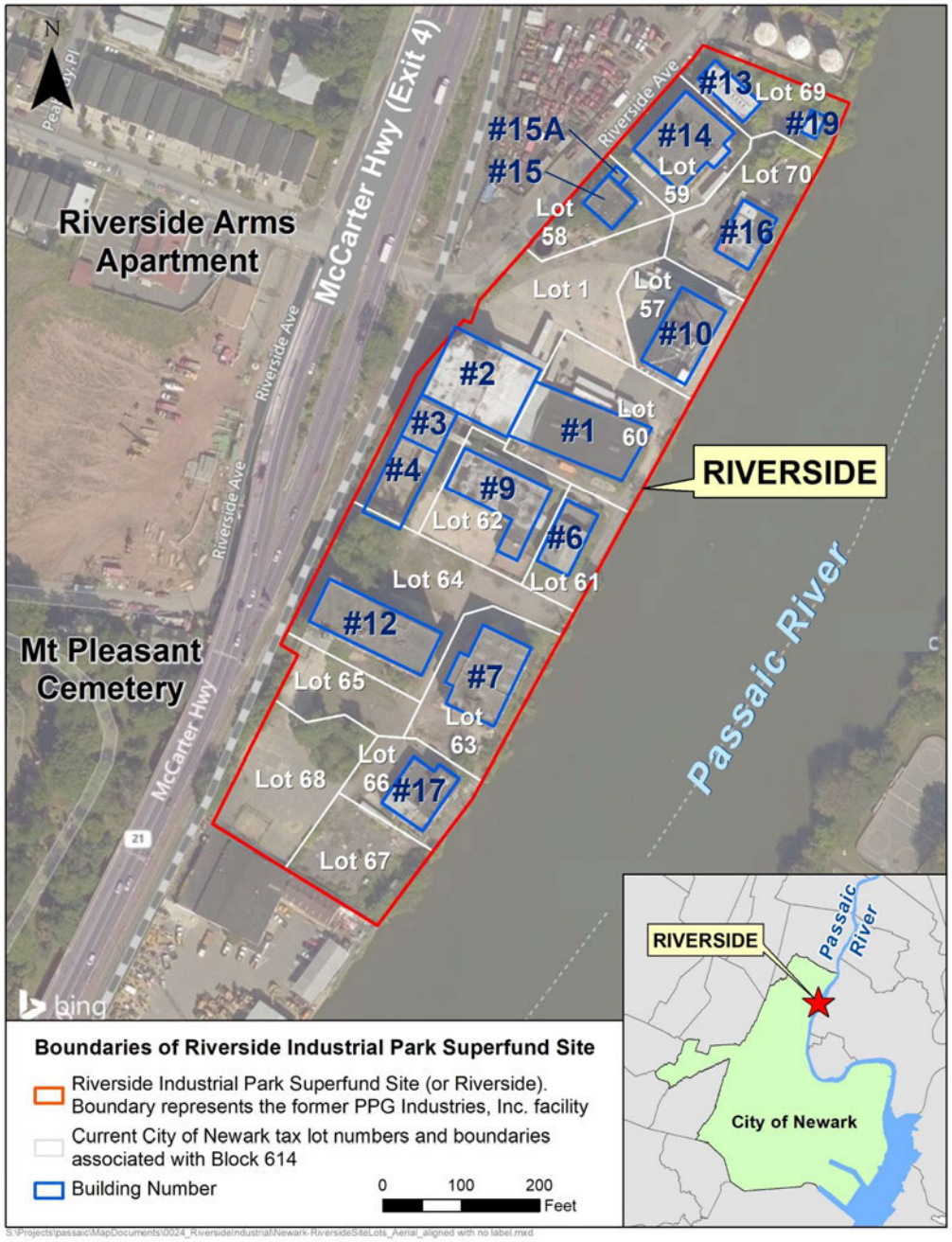
Location of Riverside Industrial Park in Your Community

- ❑ Located in City of Newark, North Ward, off Chester Avenue
- ❑ Bordered by the Passaic River on the east and Riverside Avenue and McCarter Highway (Exit 4) on the west
- ❑ Near the Mount Pleasant Cemetery

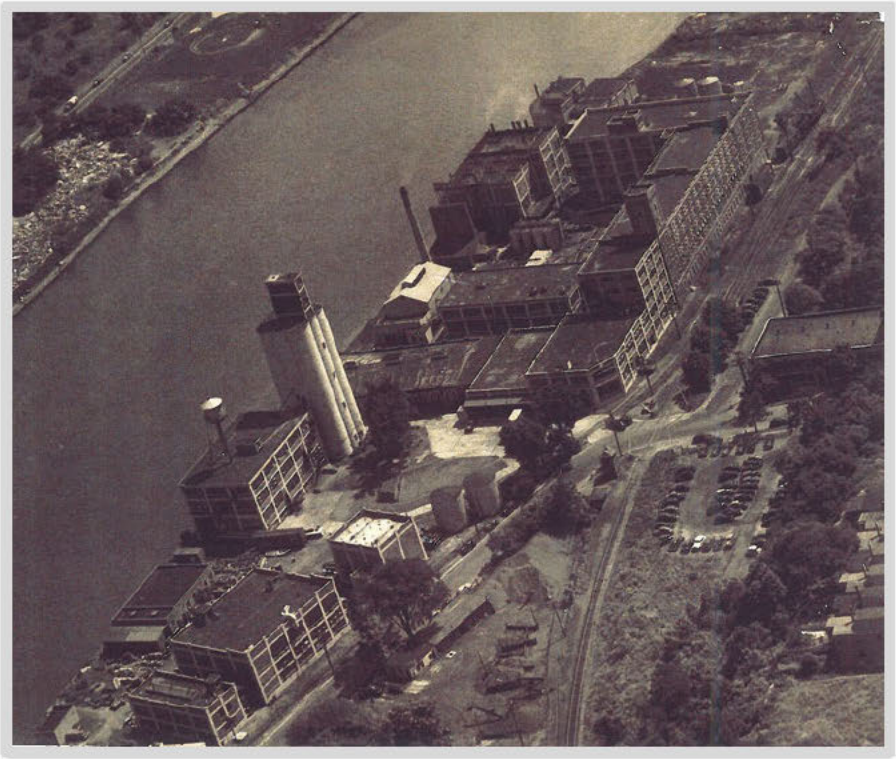


Map of Riverside Industrial Park

- Blue lines outline the buildings; white lines outline the tax lot numbers
- Site is 7.6-acre industrial/commercial complex
- North side consists of active businesses; south side is mostly vacant
- Anticipated future use of property is to remain industrial



Time Line of Riverside Industrial Park



Patton Paint Company, circa 1955

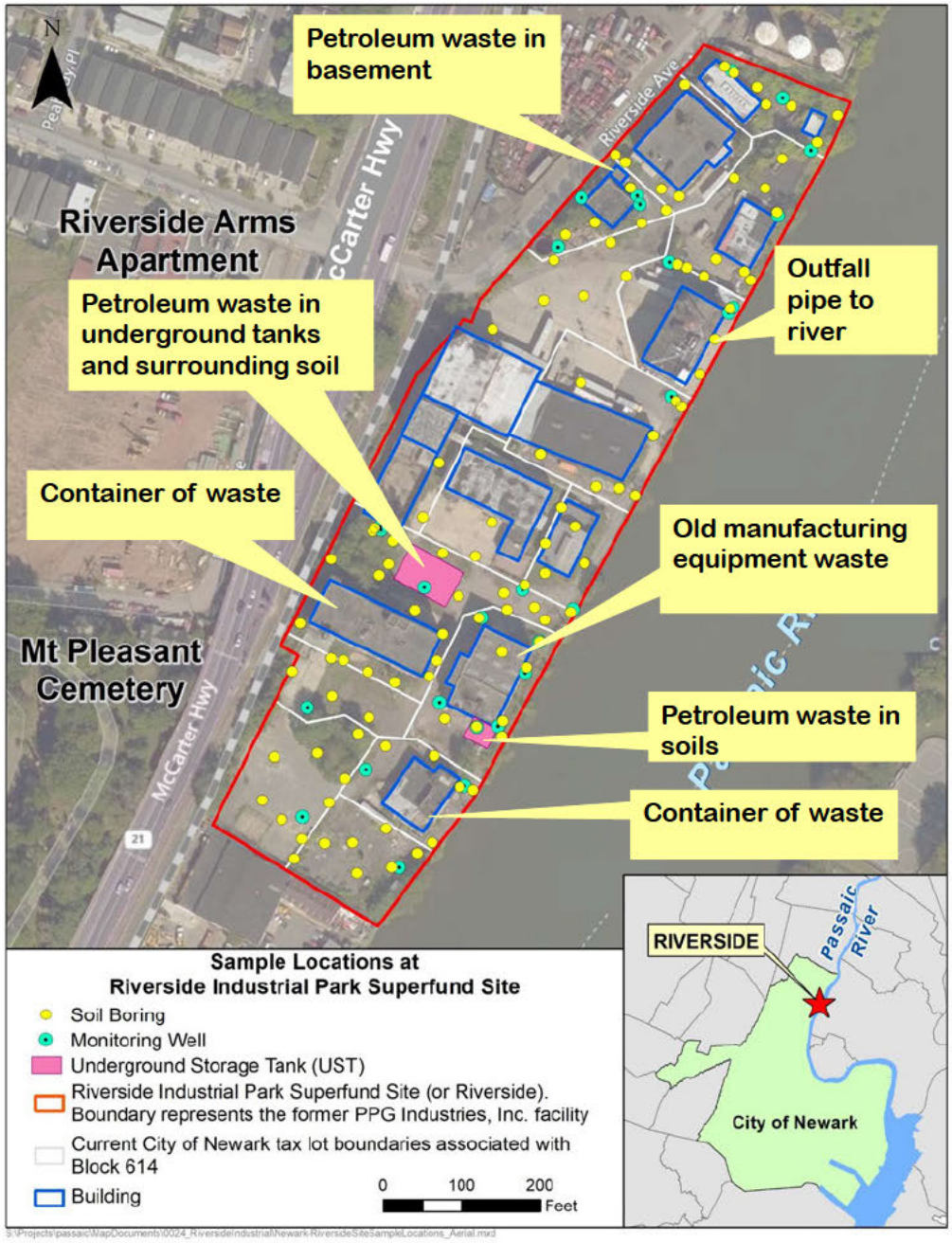
- 1903 Patton Paint Company constructed their plant on land reclaimed from the river
  - The plant used metals as pigment including lead-based raw materials
- 1920 Patton Paint Company merged with Pittsburgh Plate and Glass, which has been known as PPG since 1968
- 1971 PPG ceased operations

Following PPG, Various Companies Operated (and continue to operate) at the site from 1971 to 2020

- Frey Industries, Inc. / Jobar
- Baron Blakeslee, Inc.
- Universal International Industries
- Samax Enterprises
- HABA International, Inc. / Davion Inc.
- Roloc Film Processing
- Gilbert Tire Corporation
- Chemical Compounds, Inc. / Celcor Associates, LLC
- Teluca
- Gloss Tex Industries, Inc.
- Ardmore, Inc.
- Monaco RR Construction Company
- Federal Refining Company
- Midwest Construction Company

Listed on EPA's National Priority List in 2014. Following agreement with PPG, study conducted in 2017.

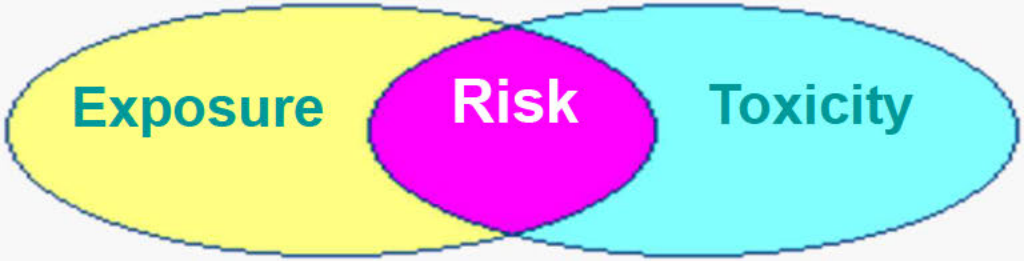
- Soil samples
- Groundwater samples
- Indoor air samples
- Sample waste containers and tanks
- Sample contents of manholes



Why Risk Assessment?

- Risk Assessments (human health and ecological) provide a framework to understand the:
  - Nature and magnitude of the risk
  - Adversity of the risk
  - Confidence or reliability in estimates
  - Areas of uncertainty
  - Evidence supporting the decision.

EPA Superfund Risk Assessment Process



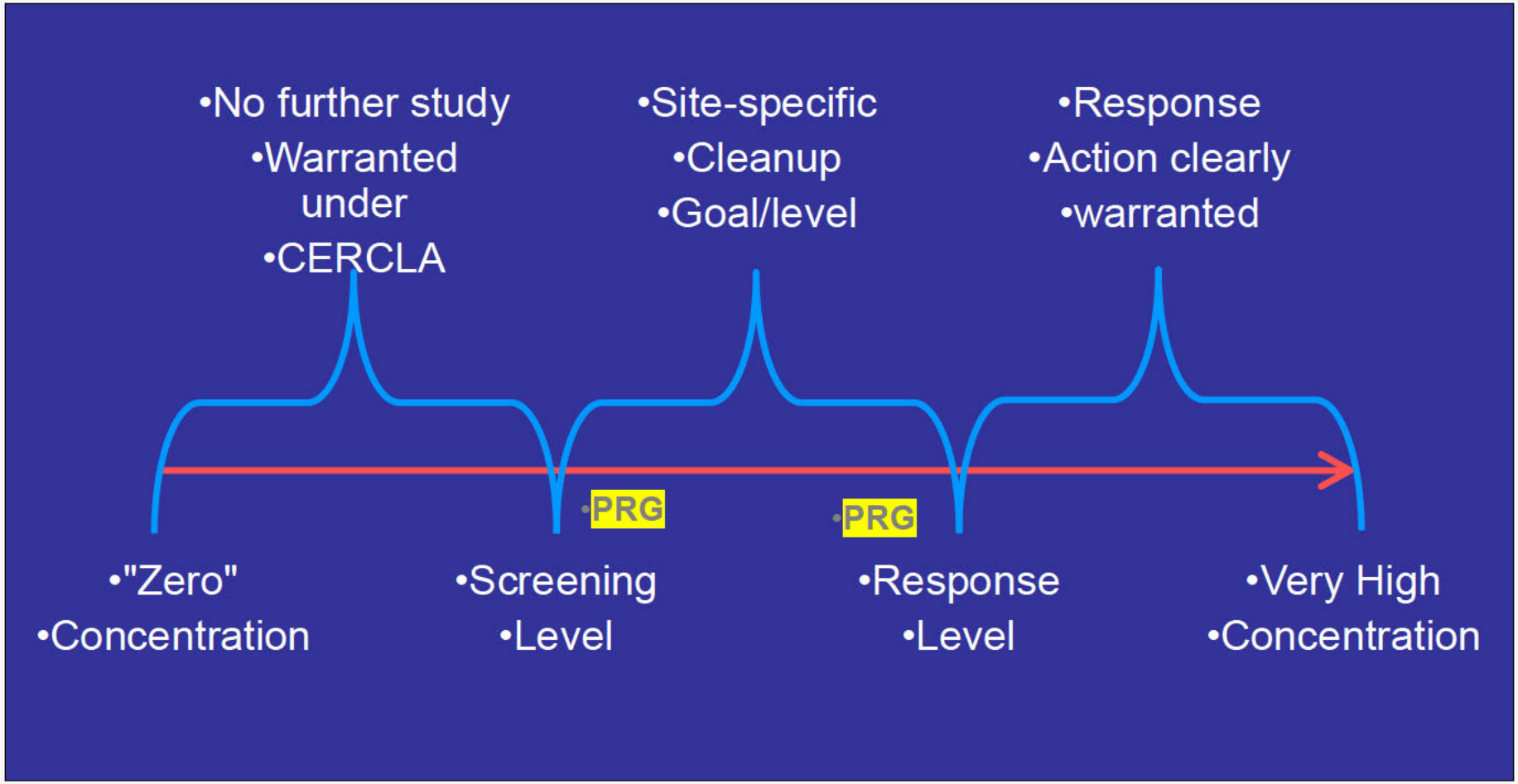
- Evaluated under current (baseline) and future conditions
- Baseline conditions evaluated in the absence of institutional or other controls
- Goal is health protection under reasonable maximum exposures

The Risk Assessments concluded:

- Human health
  - Soil: unacceptable risk to construction workers, utility workers, outdoor workers, trespassers, and child visitors due to metals and Volatile Organic Compounds (VOCs)
  - Indoor air: unacceptable risk to indoor workers due to VOCs
  - Groundwater: unacceptable risk due to VOCs and Semi-volatile Organic Compounds (SVOCs)
    - *groundwater is not a source of drinking water*
- Ecological
  - Unacceptable risk to terrestrial or land based species due to contaminated soil (metals, VOCs, and SVOCs)

• RISK MANAGEMENT

Evaluation of Contaminants in Various Media



The Remedial Investigation Study concluded:

- Soil
  - Contaminated with lead at levels that exceeded EPA's acceptable range
  - Contaminated above New Jersey's acceptable levels for an industrial/commercial property (see next slide)
- Groundwater
  - Contaminated above New Jersey's acceptable levels
- While there is no current risk to persons working indoors on-site, the soil contains contaminants that could potentially enter buildings as vapors in the future.

Contaminants of Concern

Soil

Metals

Polychlorinated Biphenyls (PCBs)

Volatile Organic Compounds
(ex: benzene)

Semi-Volatile Organic Compounds
(ex: hydrocarbon)

Ground water

Metals

Volatile Organic Compounds
(ex: acetone)

Semi-Volatile Organic Compounds
(ex: hydrocarbon)

Groundwater is currently not used as drinking water.

Soil Gas

Volatile Organic Compounds
(ex: naphthalene)

Soil gas is vapor originating from soil or groundwater that that can potentially migrate into buildings.

EPA's Objectives for the Cleanup

- **Soil/Fill**
  - Minimize contaminant concentration
  - Minimize exposure to contaminated soil
  - Minimize off-site transport of contaminated soil
  - Minimize leaching of contaminants to groundwater and river
- **Groundwater**
  - Minimize contaminant concentrations and restore groundwater quality
  - Prevent exposure to contaminated groundwater
  - Minimize migration of contaminated groundwater
- **Soil Gas**
  - Minimize contaminants in soil that may migrate to indoor air
- **Waste**
  - Secure or remove waste
  - Prevent an uncontrolled release
  - Minimize exposure to waste material
- **Sewer Water**
  - Prevent exposure to material in manhole
  - Minimize contaminant concentration
  - Prevent an uncontrolled release

Nine Evaluation Criteria

Threshold Criteria

1. Overall protection of human health and the environment
2. Compliance with ARARs (applicable or relevant and appropriate standards)

Primary Balancing Criteria

3. Long-term effectiveness and permanence
4. Reduction of toxicity, mobility or volume
5. Short-term effectiveness
6. Implementability
7. Cost

Modifying Criteria

8. State acceptance
9. Community acceptance

Waste Alternatives that EPA Considered

- No Action
- Removal and Off-Site Disposal: Various containers, underground storage tanks (including content in tanks and surrounding soil), and petroleum in basement of Building 15

[redacted]

Sewer Water Alternatives that EPA Considered

- ❑ No Action
- ❑ Removal and Off-Site Disposal: Deposited solids and water in inactive manhole and power-wash connecting inactive sewer line

[redacted]

Soil Gas Alternatives that EPA Considered

Alternative 1	Alternative 2	Alternative 3
• No action taken • Required by EPA for comparison	• Deed notices to restrict use • Air monitoring in existing occupied buildings • Future buildings would be constructed with controls • Continue investigation on vapor intrusion	• Same as Alternative 2, except soil within 100 feet of occupied buildings would be treated

How do the Soil Gas Alternatives Compare?

[redacted]

EPA's Preferred Alternative for Soil Gas – Alternative #2

JOB NO.: 0013620 DATE: June, 2020 1 inch = 100 feet SHEET: OF	RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE	Soil Gas Alternative 2 - Institutional Controls, Air Monitoring or Engineering Controls (Existing Occupied Buildings) and Site-Wide Engineering Controls (Future Buildings)	© 2020 Microsoft Corporation © 2020 Maxar ©CNES (2020) Distribution Airbus DS
FIGURE 5-13	Newark, New Jersey		Spatial Reference Name: NAD 1983 StatePlane New Jersey FIPS 2900 Feet

N

0 25 50 100 Feet

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.

Soil/Fill Alternatives that EPA Considered

Alternative 1	Alternative 3	Alternative 4	Alternative 5
• No action taken • Required by EPA for comparison	• Same as Alternative 2 • Plus site-wide asphalt cap • Repair of bulkhead	• Same as Alternative 3 • Plus removal of lead in soil around Building 7	• Same as Alternative 3 • Plus stabilization in place (using cement)

How do the Soil/Fill Alternatives Compare?

[redacted]

EPA's Preferred Alternative for Soil/Fill – Alternative #4

Legend

- Soil Boring
- Footprint of Engineering Controls (Bulkhead)
- Underground Storage Tanks
- Site Boundary
- Site Lots
- Insitutional Controls
- Excavation and Off-Site Disposal - UST and Soil/Fill NAPL
- Footprint of Soil Alternative 4 for Focused Lead Removal
- Engineering Control (Cap)

Note: Building demolition is not required or incorporated in this alternative

MAY NEED TO REMAKE THIS MAP BECAUSE COLORS ARE TOO DARK

JOB NO.: 0013620 DATE: June, 2020 1 inch = 100 feet SHEET: OF	RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE	Soil Alternative 4 - Institutional Controls, Engineering Controls, Focused Removal with Off-Site Disposal of Lead and NAPL Removal	© 2020 Microsoft Corporation © 2020 Maxar ©CNES (2020) Distribution Airbus DS
FIGURE 5-3	Newark, New Jersey		Spatial Reference Name: NAD 1983 StatePlane New Jersey FIPS 2900 Feet

N

0 25 50 100 Feet

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Groundwater Alternatives that EPA Considered

Alternative 1	Alternative 2	Alternative 3	Alternative 4
• No action taken • Required by EPA for comparison	• Deed notices to restrict use • River wall to prevent migration • Pump groundwater and treat for disposal	• Deed notices to restrict use • Injections to treat groundwater	• Deed notices to restrict use • Pump groundwater and treat for disposal • Periodic injections to treat groundwater as needed

How do the Groundwater Alternatives Compare?

[redacted]

Need to include a better groundwater map for public

Summary of EPA's Preferred Alternative

- Waste Alternative 2: includes removing and disposing of underground storage tank, petroleum, and containerized waste
- Sewer Water Alternative 2: includes cleaning out and closing inactive manhole and associated inactive sewer line
- Soil Gas Alternative 2: includes air monitoring in occupied buildings and requiring future buildings to be constructed with controls
- Soil/Fill Alternative 4: includes excavating lead-contaminated soil around Building #7 with off-site disposal along with a site-wide cap and bulkhead repairs
- Groundwater Alternative 4: includes site-wide pumping system to extract and treat groundwater for disposal with periodic injections

Summary of EPA's Preferred Alternative

Type	Estimated Cost	Construction Time
Waste	$1,580,700	1-2 months
Sewer Water	$24,900	Less than 1 month
Soil Gas	$449,800	1-2 months (plus continuous monitoring)
Soil/Fill	$12,633,300	8-12 months
Groundwater	$24,234,400	8-10 months (plus operation and maintenance)

Total for remedy $38,923,100

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Questions and Comments

Please keep your lines muted

Chat box ⟶ Phone lines

- To unmute phone use (*6)
- To unmute computer mic please follow the skype control shown on next slide

Categorically (elected officials, residents, businesses, general public) and in alphabetical order (A-G, H-N, O-T, U-Z). *For example: residents with last names A-G*

Before your question/comments, please state your name and affiliation followed by your question or comment. *For example: "Jane Doe, resident: Where is the Riverside site located?"*

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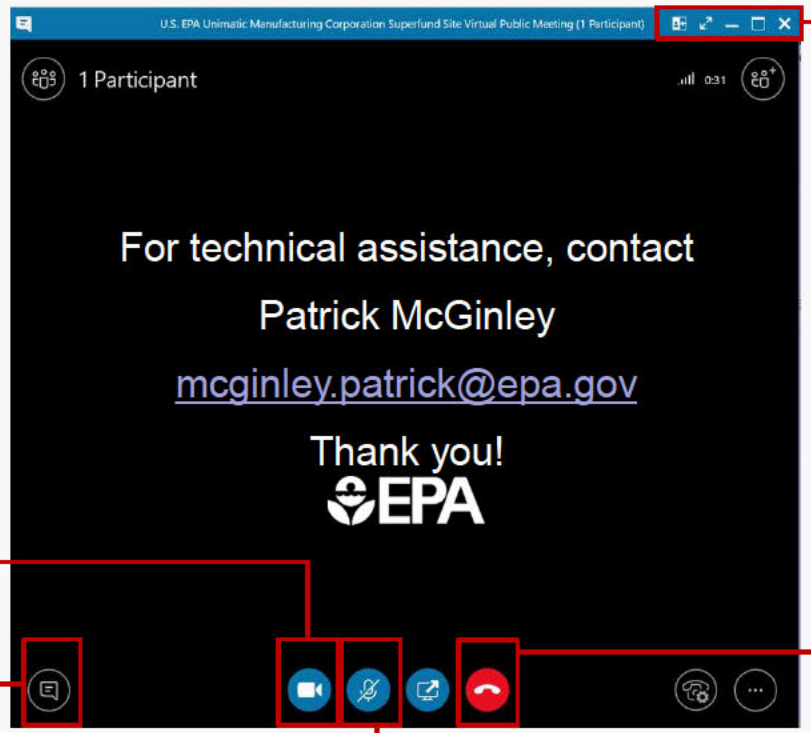

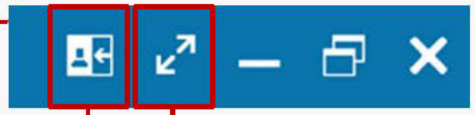

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Public comment period on Proposed Plan ends August 21, 2020

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All information related to the Riverside Industrial Park Superfund site can be found electronically at:

www.epa.gov/superfund/riverside-industrial

or by contacting Shereen Kandil

Shereen Kandil
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US Environmental Protection Agency

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Thank you!