

PROPOSED PLAN
AMENDMENT
INFORMATIONAL MEETING

Centredale Manor Restoration Project Superfund Site
July 2012

Agenda

- Welcome /Meeting Purpose
- Brief Site Overview
- Why Issue an Amendment
 - ▣ EPA's Dioxin Reassessment
 - ▣ Exposure Pathways and Potential Health Risks
- Modifications to Action Areas
- Precautionary Measures
- Opportunities for Commenting
- Questions & Answers
- Formal Hearing



Brief Site Overview

Woonasquatucket River

Industrial Legacy

- Past Uses
 - Chemical Manufacturing
 - Drum Recycling
- Resulting Contamination
 - Dioxin
 - PCBs
 - PAHs
 - Metals
- Other Background Industrial and Urban Sources

Why Issue a Proposed Plan Amendment?

Centredale Manor Restoration Project Superfund Site

EPA's Dioxin Reassessment

- October 2011 EPA issued Proposed Cleanup Plan
- February 2012 EPA released final non-cancer toxicity value for dioxin
- Spring 2012 EPA revised site-specific human health risk assessment
- Spring 2012 EPA re-calculated site-specific residential soil cleanup level

Dioxin Non-Cancer Health Impacts

Adverse non-cancer health effects from dioxin exposure may include:

- Reproductive effects (decreased sperm counts and mobility)
- Disruption to the Endocrine System (increased level of thyroid stimulating hormone)

Dioxin in the Environment

Dioxin does not readily:

- ❑ Volatilize in air
- ❑ Dissolve in water
- ❑ Get taken up by plants

Where dioxin is found:

- ❑ Dioxin accumulates in fish and wildlife, especially in fat
- ❑ Dioxin adheres to soil and sediment particles

How Exposure Can Happen

Site-Specific Exposures that Add to Risk:

- Eating contaminated fish from river
- Accidentally ingesting contaminated soil

Potential Exposures & Risks

Who is potentially exposed?

- Residents and Recreational Visitors in Allendale and Lyman Mill Ponds
 - Eating fish from river (2 meals a month)
 - Swimming in river (4 days a week, June-August)
 - Visiting recreational areas 26 days a year
 - Living in the floodplain for 30 years
- Residents in Source Area, if caps did not exist

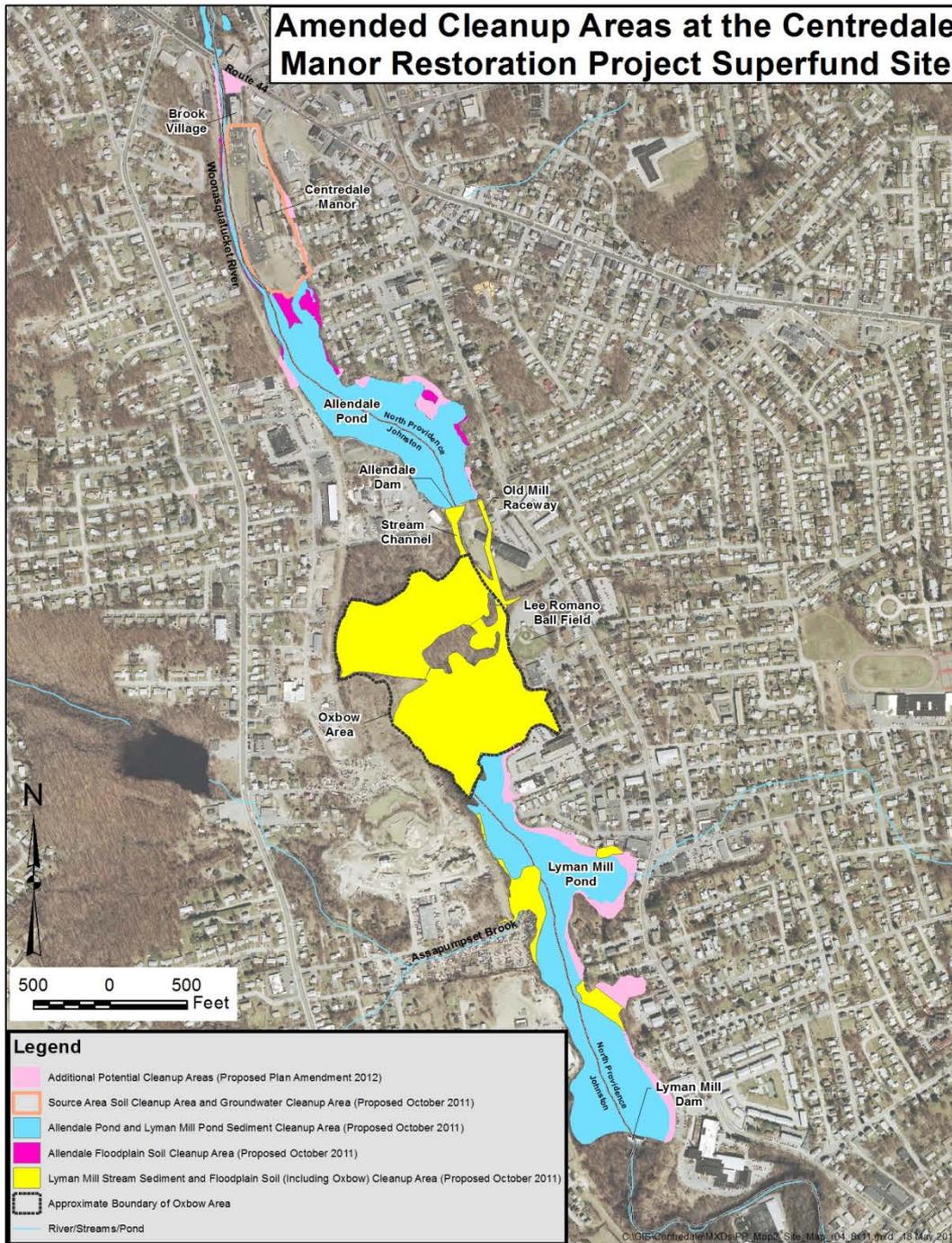
Revised Dioxin Cleanup Level

Proposed changes in dioxin cleanup levels based on new risk calculations

Residential-use floodplain soil: Lower from 1,000 parts per trillion to site-specific 50 parts per trillion.

Recreational-use areas: Lower from 1,000 parts per trillion to a site-specific level of 680 parts per trillion.

Amended Cleanup Areas at the Centredale Manor Restoration Project Superfund Site



Modifications to Action Areas

How are Cleanup Action Areas Affected by Additional Risks?

Proposed Plan Amendment Overview



- Additional potential 10,200 cubic yards of soil to be addressed
- Alternatives cost increase between \$3.5 million and \$12 million
- Cleanup Plan still expected in Fall of 2012

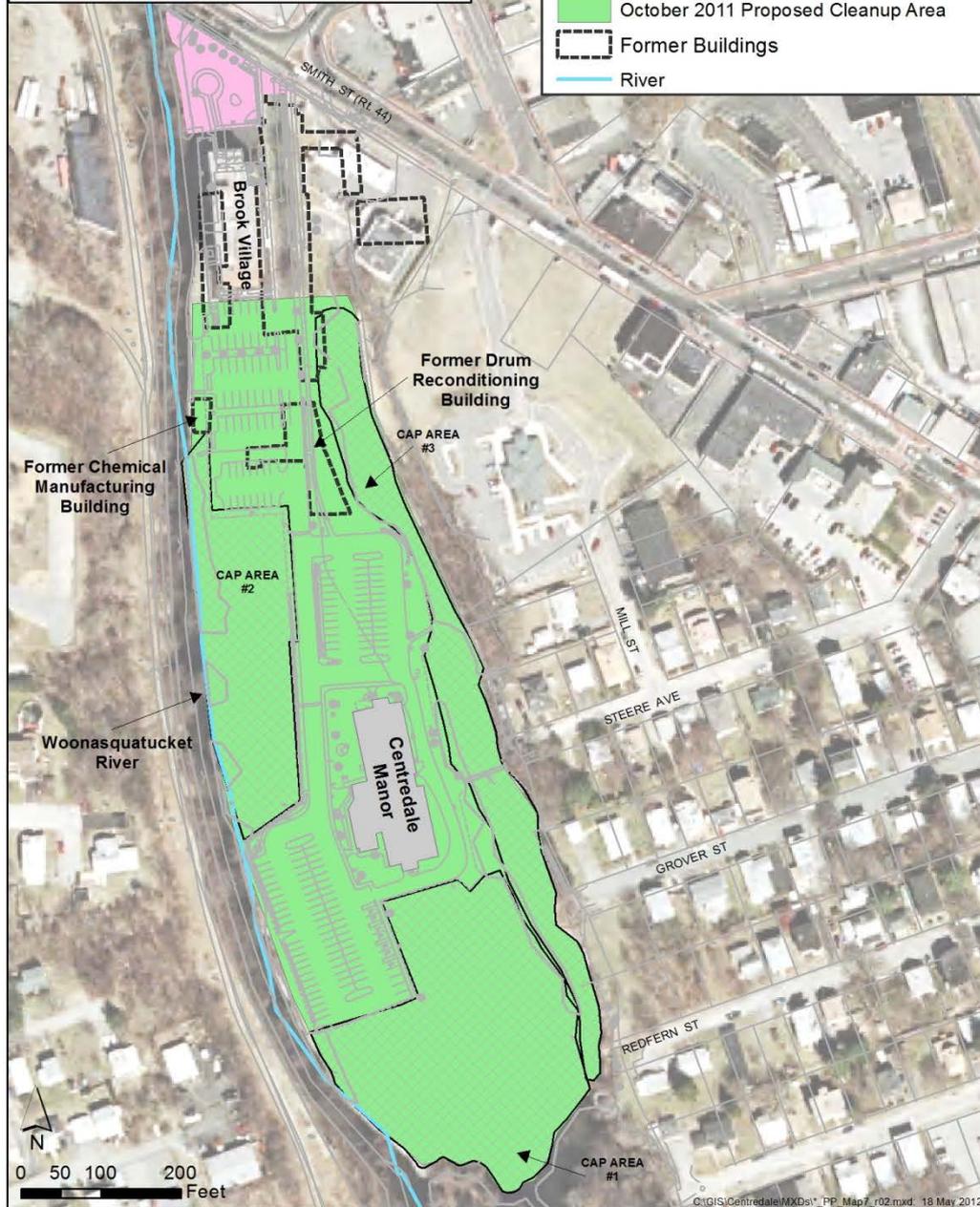
Impact on Action Areas

- **Source Area:** Extend cap over an additional 0.3 acres or excavate and remove additional 430 cubic yards of soil
- **Allendale Pond & Lyman Mill Pond Sediment:** This action area is not impacted by proposed amendment

Amended Proposed Cleanup Area for Source Area Soil

Explanation:

- Additional Cleanup Area
- October 2011 Proposed Cleanup Area
- Former Buildings
- River



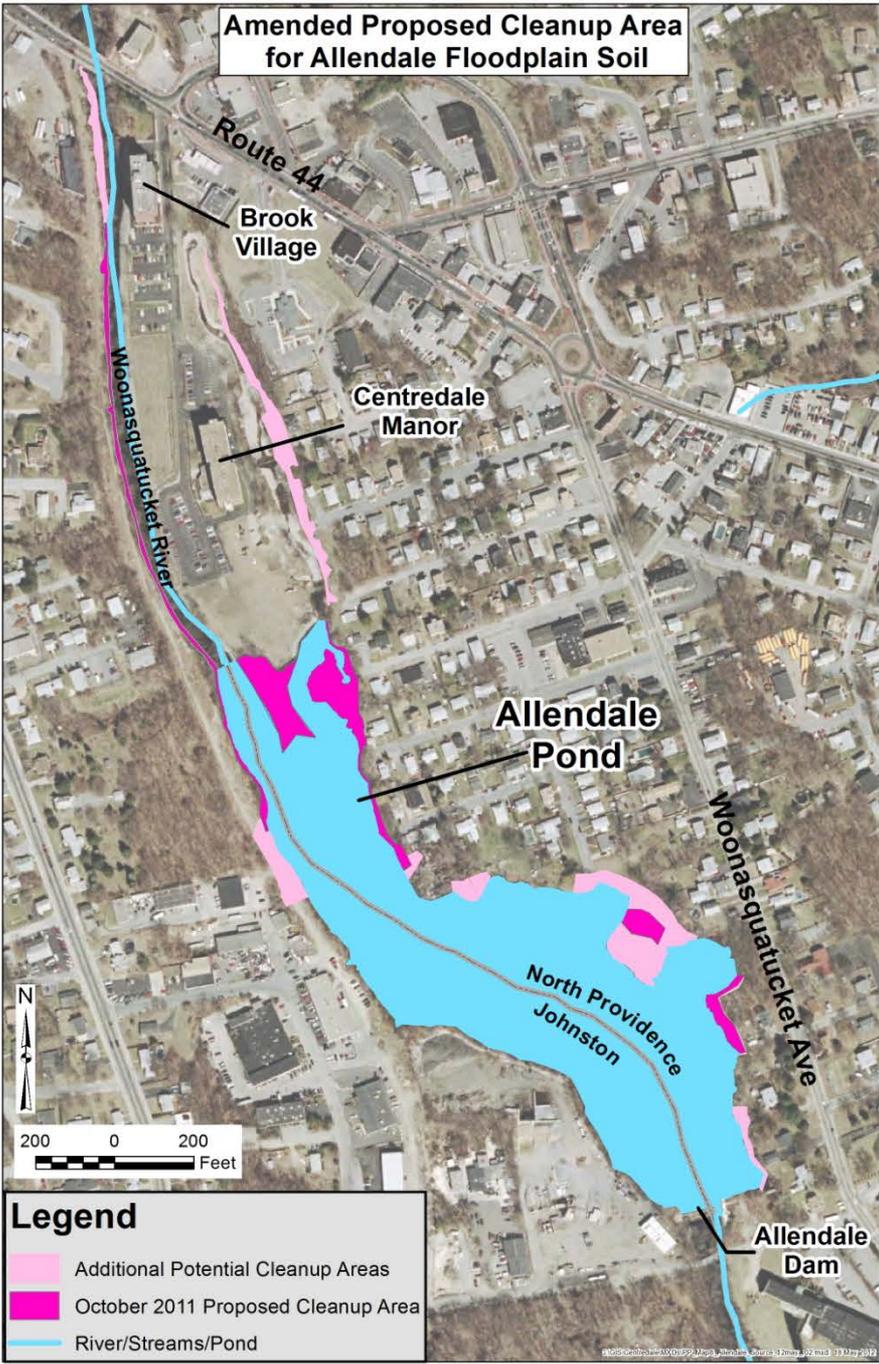
Impact on Action Areas

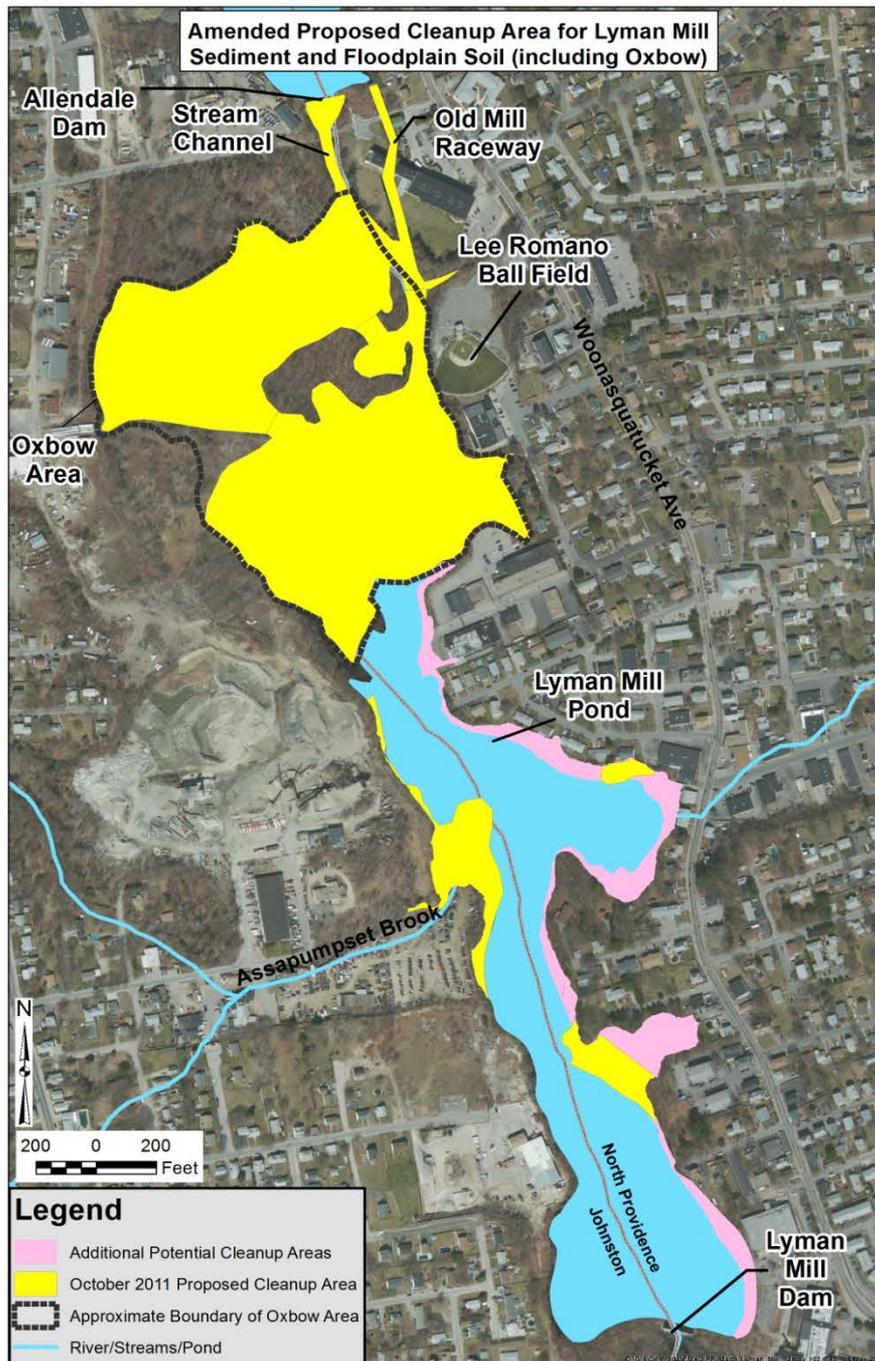
For both:

Allendale Floodplain Soil and Lyman Mill Floodplain Soil

- Precautionary interim measures to prevent exposure on approximately 48 residential properties once cleanup plan is issued this fall
- Additional sampling to determine if representative composite samples from each property exceed cleanup levels
- Excavation of up to 9,800 cubic yards from residential properties

**Amended Proposed Cleanup Area
for Allendale Floodplain Soil**





Interim Precautionary Measures

- Measures to prevent access to potentially contaminated areas along the ponds prior to start of long-term cleanup plan
- Work to be done in consultation with property owners
- These measures are expected to take place after the cleanup plan is issued in Fall 2012

Precautionary Measures That Residents Can Take

- Keep your house clean of dirt and soil from outside by:
 - ▣ Taking off shoes before entering the house
 - ▣ Washing clothing used when doing yard work
- Keep yourself clean, and avoid ingesting soil by:
 - ▣ Washing hands with soap and water before cooking, eating, drinking or smoking
 - ▣ Washing hands with soap and water after playing or working outside
- Wash fruits and vegetables before cooking/eating

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Warning • Aviso



EPA (800) 372-7341

In the Meantime...

DON'T

- Don't Eat Fish, Eels, Turtles, other Wildlife or Plants
- Don't Swim or Wade
- Don't Dig into River Banks

Use the River Wisely

DO:

- ❑ Walk, run, or bike along the river
- ❑ Paddle a canoe or kayak
- ❑ Wash thoroughly after any contact with river water or sediment



Ways to Comment

Have an opinion?

Submit Your Comments

Orally at a Scheduled Hearing

July 30, 2012

- 7 pm Pocasset Bay Retirement Living

July 31, 2012

- 3 pm Centredale Manor

Or:

- 7 pm North Providence Town Hall, second floor, Council Chambers

In Writing by Aug. 17, 2012

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Questions & Answers

What are your questions?



Formal Hearing

Provide Oral Comments into Formal Record