Kerr-McGee Chemical Corp. Navassa, North Carolina Superfund Site

Public Meeting March 26, 2019

U.S. Environmental Protection Agency
N. C. Department of Environmental Quality
Greenfield Environmental Multistate Trust LLC,
Trustee of the Multistate Environmental Response Trust







Public Meeting Agenda

- ✓ Introductions
- ✓ Update on EPA Information Repository
- ✓ NCDEQ and Navassa Trustee Council Update
- ✓ NCEERC Update
- ✓ Focused Feasibility Study
- ✓ Timeline for ROD
- ✓ Remediation Investigations (RI) Highlights and Plans
- ✓ Questions and Discussion







Introductions

Tonya Spencer, EPA







Introductions

- ✓ Navassa Superfund Site Cleanup Team
 - ✓ U.S. Environmental Protection Agency (EPA)
 - ✓ N.C. Department of Environmental Quality (N.C. DEQ)
 - ✓ Multistate Environmental Response Trust (Multistate Trust)
- ✓ Navassa Town Council
- ✓ Navassa Community Environmental and Economic Redevelopment Corporation (NCEERC)
- ✓ Navassa Trustees Council Natural Resource Damage (NRD) Restoration
- ✓ Other Partners
 - ✓ N.C. Department of Health and Human Services/N.C. Division of Public Health (N.C. DPH) – Health education and outreach
 - ✓ University of North Carolina Wilmington (UNCW) College / Underserved Community Partnership Program (CUPP)







Update on EPA Information Repository

Public Meetings Every Quarter

Next Meeting June 25th







NCDEQ and Navassa Trustee Council Update

Anjie Ackerman, NCDEQ







Navassa Trustee Council

NATURAL
RESOURCE
DAMAGE
ASSESSMENT
AND
RESTORATION

A legal and scientific process

A collaborative process led by Trustees

Includes public involvement

NRDAR's goal is to restore the injured environment and services







Navassa Trustee Council

Kerr McGee NRDAR Trustee Activities

August 18, 2015 Public Scoping Meeting

September 27, 2017 Community Meeting

Continue to receive and review project proposals

• 25 projects have been submitted to date

Developing a Draft Restoration Plan

- Public Comment Period (likely 45 days)
- Trustees plan to present the Draft Restoration Plan and included projects to the community during this time

Restoration will take place in phases

- At this point no final decisions have been made and no funds have been allocated to particular projects
- Project funding decisions are not final until the public has had the opportunity to comment
- NRDAR Trustee activities are not completed until all restoration funds have been exhausted







Navassa Trustee Council

Kerr McGee NRDAR Trustees

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- Anjie Ackerman
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Navassa Community Environmental and Economic Redevelopment Corporation (NCEERC) Update

Chris Graham, NCEERC







Superfund Process and Record of Decision (ROD) Update

Erik Spalvins, EPA







How we got here

- √ 2005, Kerr McGee created "Tronox", which went bankrupt in 2009
- ✓ EPA took over investigation in 2010
- ✓ Tronox Bankruptcy Settlement Agreement finalized in February 2011
 - ✓ Multistate Trust funds can only be used for cleanup
 - ✓ Navassa Trustees Council Natural Resource Restoration by NOAA, N.C. DEQ, FWS
- ✓ Multistate Trust created in 2011







Prioritizing Areas for Remediation

Remedial Investigation (RI)



Feasibility Study (FS)



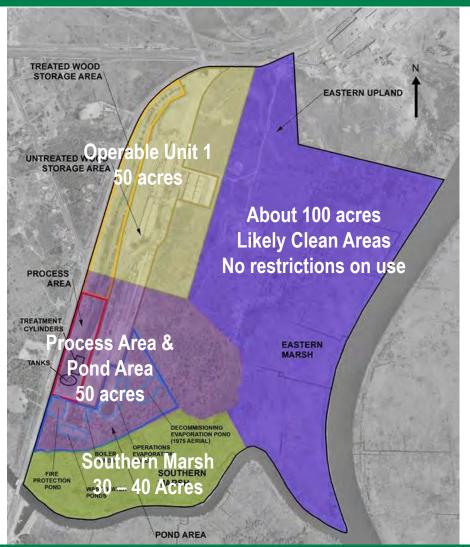
Proposed Plan (Record of Decision)



Remedial Design (RD)



Remedial Action (RA)









Remediation Investigations Highlights and Plans

Richard Elliott, Multistate Trust







Remedial Investigations (RI)

Purpose of Remedial Investigations (RI):
Identify areas of contamination on and around the Site that need
to be remediated to protect people and the environment

- ✓ Investigate all potentially contaminated media on- and off-Site soil, sediment, groundwater and surface water
- ✓ Determine the limits and concentrations of Site contaminants
- ✓ Use RI results to evaluate potential risks to people and the environment and identify remediation actions (Feasibility Study)







RI Highlights

- ✓ Constituents of Concern (COCs)
 - ✓ Polycyclic Aromatic Hydrocarbons (PAHs) (creosote-related SVOC contaminants)
 - ✓ Inorganics (Arsenic)
- ✓ Extent of Contamination
 - ✓ Surface Soils
 - ✓ Subsurface Soils
 - ✓ Terrestrial Sediment
 - ✓ Marsh Sediment
 - √ Groundwater
- ✓ Human Health Risk Assessment
- ✓ Baseline Ecological Risk Assessment







Key Activities 2018 and First Quarter 2019 Progress

Complete Reports

- RI Report
 - Final Draft Near Complete, Middle of the Year
 - Awaiting Finalization of Human Health Risk Assessment (HHRA)
- HHRA
 - Final Draft has been Submitted to EPA and NCDEQ and comments have been received.
 - Final Submittal Planned by April 2019
- BERA
 - BERA has been Approved and Posted by EPA
- Complete Feasibility Study and Proposed Plan
 - Focused Feasibility Draft has been Reviewed and Commented on by the EPA and NCDEQ. There is a major change in approach directed by EPA that will require additional work and time.
 - Final Draft to be Submitted to EPA and NCDEQ, after EPA decides on a preferred strategy







Key Activities 2018 Progress

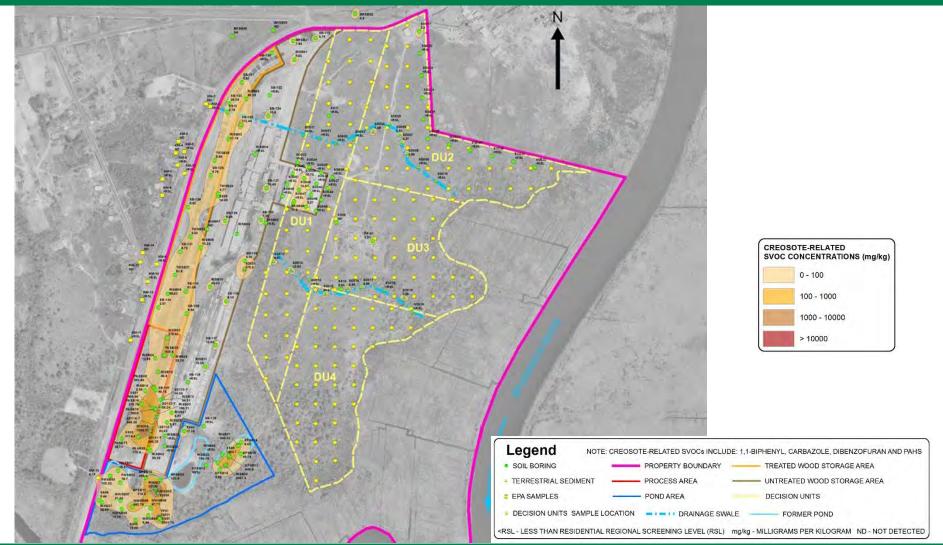
- OU1 (Original OU1)
 - Completed Trench Study
- Marsh
 - Additional Sampling
 - Sampling and Analysis Completed in 2018
 - Additional Sampling to Support Toxicity Testing Planned for 2019
 - Marsh Study Plan
 - Draft proposal was reviewed with EPA and NCDEQ Process and Pond Area
 - Initiate Feasibility Study
- Groundwater
 - Two Sampling Events Completed
 - Initial Plume Studies are Completed
- Completed Redevelopment Planning Initiative
- Started Marketing of the Site







Distribution of Creosote-Related SVOCs in Surface Soil and Terrestrial Sediments







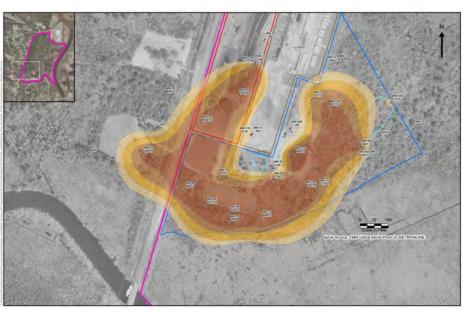


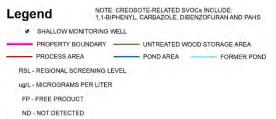
Distribution of Creosote-Related SVOCs in Groundwater

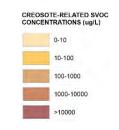
March 2017 Results

November 2018 Results







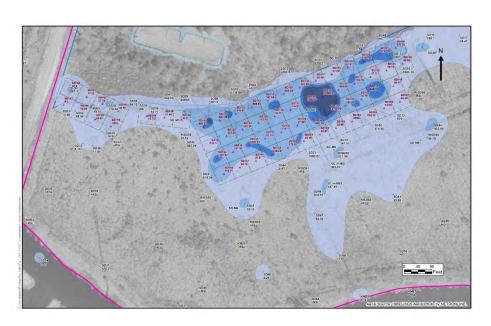


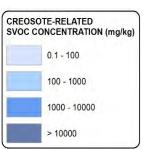






BERA Results for 35-Acre Southern Marsh





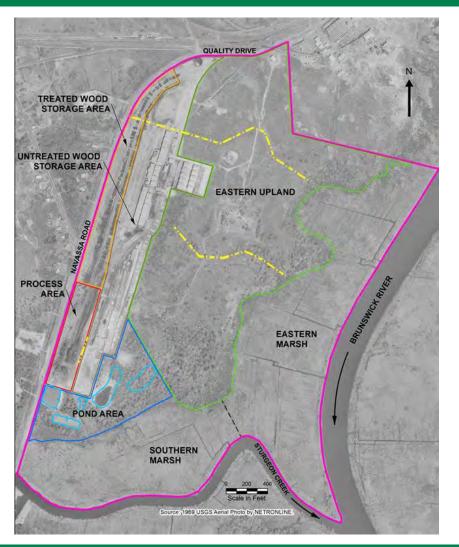
- Approximately 31.5 acres had samples with TUs < 1
- Approximately 3.5 acres had samples with TUs > 1
- Additional sampling and toxicity testing recommended to:
 - better quantify the threshold for ecological impacts
 - determine the concentration threshold for taking a remedial action







HHRA Results



- No unacceptable risk from soils in Treated and Untreated Wood Storage Areas or Eastern Upland Area
- Unacceptable risk to residential and industrial receptors identified for soils in Pond and Process Areas
- Unacceptable risk to residential and industrial receptors identified for groundwater
- No unacceptable risk identified in Southern Marsh







Key Activities 2019 Plan

- Key RI Reports
 - Complete HHRA
 - Complete RI Report
- OU1
 - Complete Focused Feasibility Study
 - EPA to prepare Proposed Plan and ROD
 - Initiate Remedial Design
- Marsh
 - EPA to Approve Action Levels
 - Sampling and Toxicity Testing
 - Completed Addendum to BERA
 - Start Marsh Area Feasibility Study
- Pond and Process Area
 - Complete Feasibility Study
- Groundwater
 - Complete Two Sampling Events
 - Conduct Plume Studies and Issue Report
 - Initiate Feasibility Study
- Site Property Activities
 - Market the Site
 - Work with Town Council to Rezone the Property
 - Initiate Institutional Controls Activities







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Questions and Discussion





