Kerr-McGee Chemical Corp – Jacksonville Superfund Site
Remedial Action Update on Site Cleanup Activities

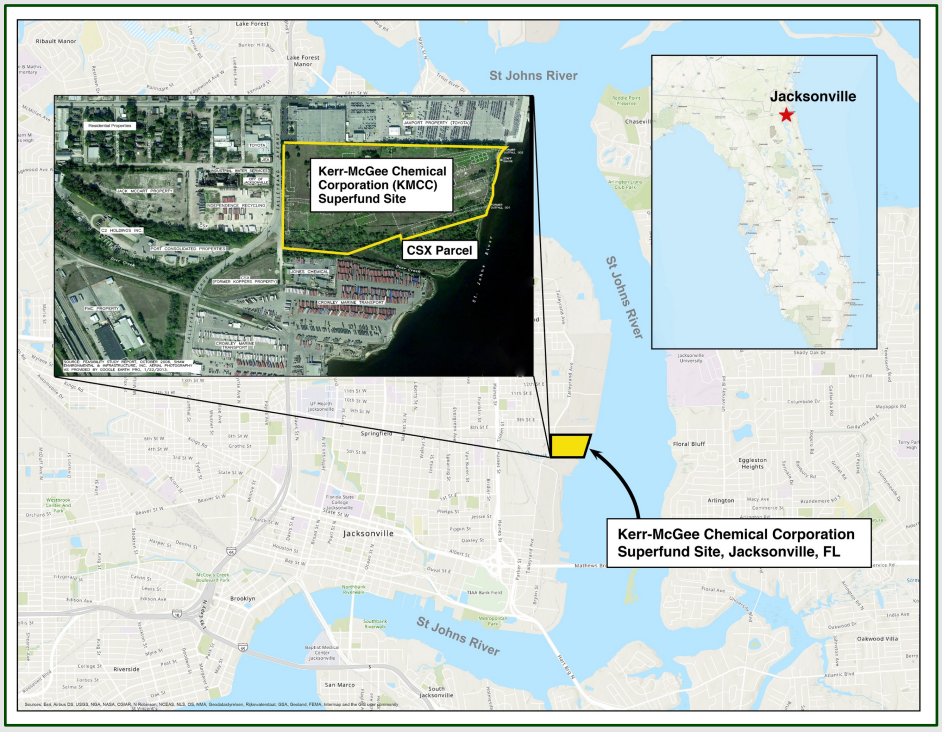
January 2024

The Remedial Action (RA) is a major cleanup phase expected to begin in Spring 2024 at the Kerr-McGee Chemical Corp – Jacksonville Superfund Site in Jacksonville, Florida (the Site). The U.S. Environmental Protection Agency and the Multistate Environmental Response Trust (Multistate Trust) prepared this fact sheet to explain the planned RA at the ±31-acre Site at 1611 Talleyrand Avenue.

Operable Unit 1 Remedial Action

The cleanup activities will address soil, groundwater, sediment, and surface water impacted by Site-related contamination associated with Operable Unit (OU1). The cleanup work will implement the EPA-selected remedy in the 2016 Record of Decision (ROD), and will include:

- On-site consolidation of contaminated soil from the adjacent CSX Transportation property;
- Construction of a low-permeability, multilayered cap covering the footprint of the former Kerr-McGee Chemical Corp property;
- Installation of an environmental bulkhead to contain contaminated sediment in place;
- Dredging of contaminated sediment from outside the bulkhead; and consolidation of the dredged sediment inside the bulkhead;
- In-situ stabilization (in-place immobilization) of contaminated soil in source areas;
- Installation of a groundwater pump-and-treat system; and
- Institutional controls to prevent human exposure to contaminants and ensure long-term protectiveness of the remedy.



A map of the Site, located in Jacksonville, Florida

Operable Unit 1 Remedial Action Activities

Project Timeline

Once this key phase of the OU1 cleanup starts, completion will take approximately two (2) years. The work will typically take place during daylight hours on weekdays.

Health and Safety

- Contractors will be required to follow procedures to control dust and odors.
- Air quality will be monitored continuously to protect the surrounding community from exposure to contaminants at unsafe levels. Work could be temporarily stopped if conditions warrant.
- Stormwater controls will be maintained throughout the project.
- Other measures will be implemented to minimize noise, traffic, and other impacts on the neighborhood.

Site Description

The Site consists of ±31 acres on the west bank of the St. Johns River in the predominantly industrial port of Jacksonville. The Site is secured by a chain-link fence and bordered on the west by Talleyrand Avenue, on the north by Jacksonville Port Authority property leased to JM Family Enterprises, Inc./Southeast Toyota Distributors, and on the south by Deer Creek and an undeveloped CSX Transportation parcel. Homes are located ±300 feet west of the Site, and the Eastside neighborhood is less than ±0.5 mile to the west.

Site Background

From 1893 to 1978, Kerr-McGee and its predecessors used the Site to manufacture, formulate, package, and distribute fertilizers, pesticides, and herbicides. The operations released chemicals, metals, compounds, and low-level radioactive waste into the: soil and groundwater on-site and off-site; St. Johns River surface water; and sediment in the river and Deer Creek. Site contaminants—primarily pesticides and metals—are present in the soil, sediment, and groundwater at concentrations that may pose a threat to human health and the environment.

Kerr-McGee and its subsidiary Tronox conducted certain Site investigations until the Multistate Trust was created in 2011 as part of the Tronox bankruptcy settlement to own, investigate, and clean up the Site.

In 2011–2016, the Multistate Trust performed supplemental Site remedial investigations, assessments of human and ecological risks, and evaluations of cleanup options. In December 2016, the EPA issued a Record of Decision (ROD) documenting the OU1 remedy to address soil, groundwater, sediment, and river surface water impacted by Site contamination.

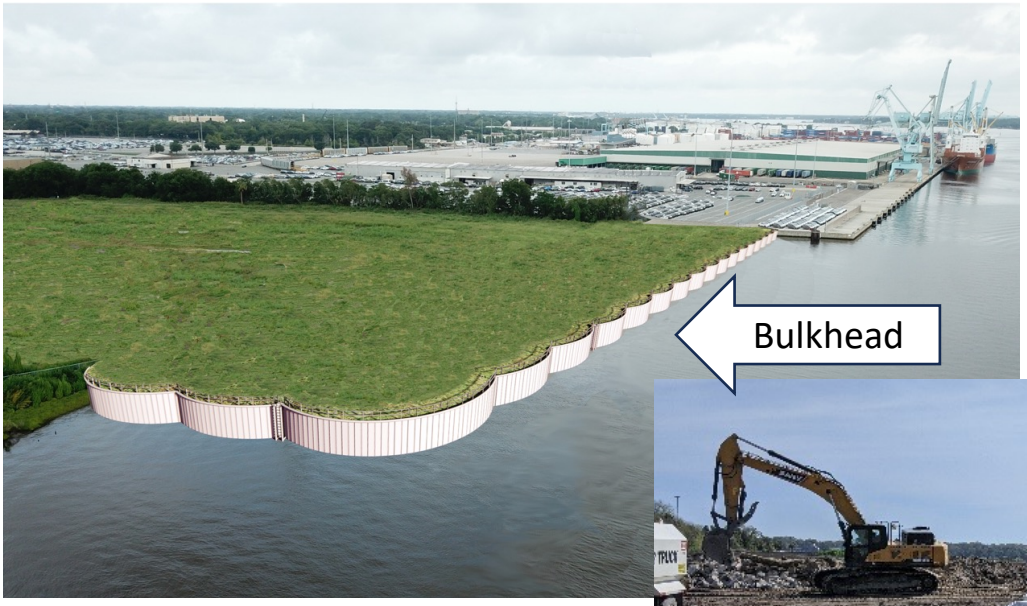
Recent Activities

Since 2017, the Multistate Trust has performed additional Site investigations, groundwater modeling, and fish-tissue and other studies needed to implement the OU1 remedy, and it has completed all three (3) phases of detailed engineering plans for the remedy's design (Remedial Design). In 2019, the Multistate Trust exchanged 14 acres of ecologically valuable, privately owned marsh lands for three acres in the river, owned by the State of Florida, as part of a land swap in order to build the environmental bulkhead for OU1.

From late 2020 through early 2021, an initial phase of cleanup prepared the Site for the upcoming major remedial activities, and included Site clearing and relocating contaminated soil from the adjacent CSX Transportation property onto the Site for consolidation under the low-permeability cap.

Future Activities

The EPA divided the Site into two operable units – OU1 and OU2 – to facilitate cleanup of known contamination. Site-related contamination of sediment and surface water in Deer Creek (OU2) will be addressed by an OU2 Remedial Investigation (RI) expected to begin in Spring 2024 and to continue into early 2025.



*Left: T*he environmental bulkhead will be installed to contain contaminated and dredged sediment behind the bulkhead's steel wall and to protect St. Johns River receptors.

Right. This mobile real-time air monitoring unit will capture emissions from active construction areas, during the cleanup work planned to begin in 2024. Three additional air monitors, positioned at fixed locations on the Site's perimeter, will measure dust particles in the air.

The Multistate Trust

The Multistate Trust is a private, independent entity established by a federal bankruptcy court to assume responsibility for the Site, including facilitating safe reuse and long-term stewardship.

The Multistate Trust performs its work under the oversight of the EPA in consultation with the Florida Department of Environmental Protection (FDEP). The Multistate Trust's beneficiaries include the United States (represented by the EPA) and the State of Florida (represented by FDEP). The transfer or sale of any portion of the Site must be approved by the beneficiaries.

Site cleanup funds were paid by Kerr-McGee and other companies responsible for Site contamination. The Multistate Trust owns and manages hundreds of contaminated, former Kerr-McGee sites across the country. Greenfield Environmental Multistate Trust LLC is the court-appointed Trustee of the Multistate Trust. Visit multistatetrust.org.

Contact Us for More Information

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Visit

Multistate Trust website:
https://jacksonville.greenfieldenvironmental.com

Kerr-McGee Jacksonville Superfund Site webpage:
https://www.epa.gov/superfund/kerr-mcgee-chemical-llc

Kerr-McGee Jacksonville Superfund Site Information Repository
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