RM 10.9 Removal Action
Community Health & Safety Plan

LPR CAG Meeting
March 14, 2013
CHASP Development

This CHASP is based on and complements several RM10.9 Removal Action design documents, and includes input from EPA, NJDEP, USACE, the Passaic River Community Advisory Group, and others.

This document focuses on preventive measures, monitoring, and response to project-related conditions that may affect neighborhoods surrounding the work areas.
## CHASP Components

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CHASP Overview

**RM 10.9 Removal Action Quick Facts:**

**What** – Remove and dispose of approximately 20,000 cubic yards of sediment and construct an isolation cap on the Removal Area.

**Why** – Surface sediment contains dioxins, PCBs, and other contaminants at elevated concentrations

**Where** – Approximately 5.6-acre area of the Lower Passaic River next to Riverside Co. Park in Lyndhurst

**How** – Working entirely from the River; ensuring Community Health & Safety by communicating with the Public

**When** – Construction is expected to begin in July 2013 and be completed in October 2013

**Who** – Based on an agreement with EPA, the Cooperating Parties Group is funding and performing the Removal Action, while EPA is providing project oversight
RM 10.9 Removal Action Guiding Principles

Guiding principles that will direct the work & activities of the CPG and its contractors:

- Coordinate & communicate to ensure on-water activities are conducted safely and minimize interference & inconveniences with the local communities & river users
- All work (dredging, capping & transportation) at RM 10.9 will be conducted on the River
- Dredging & capping will not cause flooding & not increase the likelihood of flooding
- No untreated or treated sediment or capping materials will be staged in Lyndhurst or be moved using local streets or highways

CPG will work with Local Community Groups & Govt Agencies to ensure community health & safety and a well-informed community
Removal Action Overview

**Sediment Removal**
- Remove top 2 feet of sediment and debris from the removal area
- Load debris & sediment into watertight barges
- Verify progress and removal depth with surveys

**Barge Transport**
- Barge sediment and debris to Stabilization Facility
- Traveling at night to reduce impact of a few open bridges on local traffic

**Sediment Stabilization**
- Pump excess water to storage tanks
- Remove large debris
- Remove sediment for stabilization processing
- Stabilized sediment cures for 24-48 hours

**Transport and Disposal**
- Load stabilized sediment into sealed containers
- Truck transport to rail yard
- Rail transport to out-of-state landfill
- Transport water to off-site treatment facility

**Capping**
- Load barges with aggregate for cap
- Barge transport materials to RM 10.9
- Place cap materials in layered sequence
- Verify cap placement with surveys
## Removal Action Schedule

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<th>Date</th>
<th>Activity</th>
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| May – June 2013       | - Baseline monitoring for surface and air quality  
                        - Small boats and moorings will be upstream, downstream, and within the Removal Area collecting water quality measurements |
| June 2013             | - Mobilization of the equipment  
                        - Barges and dredging equipment will be mobilized from NJ harbor areas to RM 10.9 |
| July – August 2013    | - Dredging and barge transport, sediment stabilization, transportation and disposal at an out-of-state landfill  
                        - Dredging at RM 10.9 Removal Area from dawn to dusk six(6) days per week (~12 hours/day) for about approximately 6-8 weeks  
                        - Barge transport for dredged sediments from Removal Area to the stabilization facility in the NJ Harbor area once a day and probably at night so that bridge openings will have minimal impact on the local traffic  
                        - Sediment stabilization at treatment facility  
                        - Train/truck transportation of treated sediment to an approved out of state landfill for disposal  
                        - Surface water and air quality monitoring |
| August – October 2013 | - Barge transport of cap material to Removal Area from construction support area throughout the day  
                        - Cap construction at Removal Area from dawn to dusk six(6) days per week  
                        - Surface water and air quality monitoring; bathymetry surveys using small boats  
                        - Demobilization; removal of equipment from Removal Area out of the LPR |
Hazard Assessment

• Potential for risk is assessed by:
  – Identifying the hazard
  – Evaluating the hazard for the likelihood of occurrence and potential impact
  – Identifying proactive activities that can be undertaken to reduce hazards and limit or mitigate the impact of an accident should it occur
  – Establishing prevention steps for each risk to insure that any hazard potential has been managed
Potential Hazards

- Collision Involving Project Vessel on Passaic River
- Damage to Public Utilities, Bridges and Other Structures
- Collision Involving Project Vehicle on Local Roadway
- Spill or Release During In-River Activities
- Security of Project Property and Equipment
Mitigation/Monitoring

• Navigation Safety
  – Notice to Mariners
  – Navigation Lights, Shapes & Signage
  – Transportation Plan – Available to river users & community

• Air/Odor Monitoring
  – COPC Sampling
  – Odor/Dust Monitoring

• Surface Water Monitoring
  – Solids & COPC Monitoring

• Physical Security
  – “Around the Clock” Security
  – Equipment Security
Quality of Life Issues

- **Noise levels** - Expected to be below local regulatory levels but will be monitored & preventative measures will be taken to insure acceptable levels.
- **Project lighting** - Not expected to affect the community because night-time operations are expected to be minimal.
- **Vapors/Odors/Dust** – Not expected to be issues, but
  - Real-time air monitoring supplemented by air sampling and analysis for target COPCs will be conducted.
  - Off-site odor conditions will be monitored based on multiple sources of information including community concerns.
- **Weather Monitoring** - precipitation, wind, & thunderstorms can affect the work schedule, warranting extra precautions or necessitating temporary shutdown of operations