Phase I Removal Action
Community Advisory Group Update
Newark, NJ – September 18, 2012

CERCLA Non-Time Critical Removal Action
Lower Passaic River Study Area
Agenda

- Phase I Removal Action Summary and Remaining Work
  - Phase I Work Area (OU-1)
  - Upland Processing Facility (UPF)
- Dredged Material Transportation and Disposal Summary
- Project Highlights
- Questions
Phase I Sediment Removal Operations

1. Sediment Removal
   - Loading Barge
   - Temporary Bushing
   - Diamond Anvil Pumping
   - Silt Curtain

2. Pipeline Transfer
   - Floating Pipeline
   - Temporary Sheet Pile Wall

3. Sediment Processing
   - Water Treatment
   - Underwater Suspension
   - Screening
   - Dewatering

4. Transport and Disposal
   - Loaded onto Railroad
   - Sealed Container
   - Treatment or Landfill

5. Backfill and Restoration
   - Sediment Barge
   - Temporary Bushing
   - Upland Processing Facility

Approximate Route of Floating Pipeline - Pipeline Transfer
Approximate Route of Sediment - Sediment Removal
Approximate Route of Sediment - Transport and Disposal
Temporary Sheet Pile Wall
Upland Processing Facility
Not-to-Scale
Construction – Phase I Work Area (OU-1)

- Project was completed per design:
  - 40,900 cubic yards of sediment removed from enclosure
  - 580 tons of debris (40 lined/sealed EPIC containers) removed at the enclosure prior to off-site transport to Brills Yard

- Remaining Work
  - Enclosure Removal (September/October 2012)
  - Site Demobilization (October/November 2012)
Construction – Upland Processing Facility

- Project was completed per design:
  - >56 million gallons of treated water
  - ~30,000 tons of dewatered sediment (1278 containers)
    - Of which 7,005 tons (300 containers) sent to incinerator
  - ~4,000 tons of screened coarse solids (187 containers)
    - Of which 1,220 tons (60 containers) sent to incinerator

- Remaining Work
  - Demobilization of sediment processing system
  - Removal of site improvements and surfaces
  - Removal of hydraulic pipeline
Sediment Removal
Removed Sediment Placed in Barge
Calibrating Depth of Sediment Removal
Sediment Removal and Screening
Pipeline Transferred Sediment to UPF
Coarse Solids Mechanical Equipment
Coarse Solids in Loaded into EPIC Containers
Membrane Presses Removed Water from Sediment
Dewatered Sediment Placed in EPIC Containers
Dewatered Sediment in EPIC Container
Air Monitoring Sampling Equipment
Marine Traffic Control
Marine Traffic Control

[Image of a river with buoys and a pole, dated 2012/02/16]
Dredged Material – Where did it go?

- Material was safely sent to Utah or Oklahoma depending upon its characteristics (Environmental Media or Hazardous)

Map showing locations:
- Grassy Mountain, Utah
- Aragonite, Utah
- Lone Mountain, Oklahoma
- Passaic River Site

Legend:
- Star: Subtitle C Landfill Facility
- Starburst: Incinerator Facility
Project Highlights

- Removed most concentrated inventory of dioxin-contaminated sediments and associated other contaminants from the river as planned.
- Completed more than 125,000 hours of work at the Site without a single significant worker injury.
- Supported the USEPA Jobs Training Initiative Program providing temporary full-time employment for 14 local community members for the duration of the project. 3 of these local community members were offered full-time employment.
Project Highlights (Continued)

- Monitoring Approach for Construction and Community Health/Safety – Requirements jointly agreed upon by EPA/Federal Agencies/NJDEP with input from CAG

- Monitoring met project requirements
  - Construction Monitoring – Air, Water Treatment, Enclosure Stability, Hydraulic Pipeline, Transport, Backfill, Health and Safety
  - CHASP and Quality of Life Monitoring – Noise, Odor, Light, Street Traffic, Marine Traffic, Underwater Sound, Bird

- Data and information placed onto Website, still online and available
Project Highlights (Continued)

- **Tierra Solutions and its contractors supported EPA-sponsored events to promote transparency, awareness and knowledge transfer.**

- **Site Visits and Access:**
  - Major media event at the site on October 31, 2011 for project kickoff. Elected officials and community representatives attended.
  - CAG member tour of the Lister Avenue (Phase I Work Area) and UPF operations (Spring 2012)
  - International visitor delegation from India
  - Multiple reporter and photographer visits, resulting in NY Times article, numerous local print and broadcast coverage and prominent articles in three major magazines
  - Sediment Management Work Group conducted conference in Newark and visited the site
Project Highlights (Continued)

- Public Meeting conducted in March 2012

- Attended and gave approximately 10 presentations at CAG meetings to obtain input on design and operations.

- Developed Community Health and Safety Plan (CHASP)

- Developed Project Web Site and Community Hotline
  - [www.passaicremovalaction.com](http://www.passaicremovalaction.com)
  - Hotline in English, Spanish and Portuguese
  - No community complaints to the hotline were received
Questions?