# Garfield Avenue Cleanup Status Report Public Meeting

March 21, 2013 6:30 p.m.

Fred W. Martin Center for the Arts Jersey City, N.J.

Chromium Cleanup Partnership

N.J. DEPARTMENT OF ENVIRONMENTAL PROTECTION CITY OF JERSEY CITY PPG INDUSTRIES COURT-APPOINTED SITE ADMINISTRATOR

## **Meeting Overview**

- Welcome / Introduction
- 2009 Settlement Review / Revised Master Schedule
- Garfield Avenue Cleanup Activity To Date
  - Berry Lane Park Cleanup
  - Garfield Avenue Main Site
  - Coal Tar Waste Cleanup
- What's Next?
- Blood Results / Air Quality
- Residential Inspection Program
- General Q&A / Open Information Session



## **Welcome / Introduction**

- Remarks Deputy Mayor Tayari
- Program Format
- Introduction of Presenters
- Presentation led by independent Site Administrator Mike McCabe



## **Settlement Overview**

- On June 26, 2009, DEP, Jersey City and PPG signed a settlement in Superior Court where they agreed to work together to clean up PPG's chromium sites in Hudson County
- **The agreement:** 
  - Established a 5-year goal to clean up all 20 PPG sites with special emphasis on the former chrome ore processing plant and surrounding sites on Garfield Avenue
  - Required sites to be remediated in accordance with the DEP Commissioner's Chromium Policy and "Applicable Remedial Provisions"
  - Required sites to be remediated to permit redevelopment consistent with Jersey City's redevelopment plan
  - Required a "judicially enforceable" Master Schedule be developed to prioritize site cleanups within the 5-year goal

## **Settlement Overview**

#### The agreement (continued):

- Created new position of an independent, court-appointed Site Administrator with responsibility to develop a Master Schedule and to facilitate cleanup-related activities among the parties
- Created new position of an independent Technical Consultant to assist Site Administrator and provide technical review and work plan evaluation in support of DEP regulatory responsibilities

# **20 Cleanup Locations**



### **Master Schedule**

- Initial Schedule submitted to Court with December 1, 2009 Start Date / December 31, 2014 Completion Date
- Main Garfield Avenue site (114) cleanup encountered a number of delays, including:
  - Technical issues, requiring additional review;
  - Permitting issues, requiring additional submissions;
  - Property ownership and control issues;
  - Coordination and planning for coal tar waste site;
  - Erosion along Carteret Avenue, requiring assessment, redesign and repair;
  - Sandy-related slowdown
- Cleanup of sites south of Carteret delayed because of property access and ownership issues
- Following action by DEP, a revised schedule was entered into court in February with ambitious plan to meet completion goal

# Garfield Avenue and Berry Lane



## **Garfield Avenue and Berry Lane**



### Berry Lane Park Chromium waste completely removed



Phase I construction includes: site remediation, demolition, drainage structure installation, grading and ballpark construction

## **Berry Lane Park**



- DEP-approved Remedial Action Work Plan for all cleanups
- Full removal of all chrome waste and soils to DEP standard
- A total of 49,095 tons of chrome material was excavated from the site
- PPG reimbursed JCRA for costs of chromium removal
- One mobilization to address all contaminants















### Main Garfield Avenue Site 1/3 Cleanup to Date



- Dark green area shows cleanup activity where 1/3 of chrome waste has been removed
- 202,000 tons of material removed, including highly contaminated "Green-gray mud"
- Backfilled with clean fill
- Cleanup meets or exceeds DEP environmental standards

### **Garfield Avenue Excavation Process**

PPG digs up and removes sources of chrome waste to a minimum depth of 20 feet and a maximum of 35 feet or until reaching meadow mat.

Meadow Mat

10

15

20 -

25 -

30 -

35 -

Naturally occurring layer of peat reduces hexavalent chromium into a harmless trivalent state.

Excavator

Green Gray Mud -Highly Contaminated Waste

CCPW - Soil Mixed with Contaminated Waste

Subsoil

Morris Canal

05011

Chromium Cleanup Partnership

Street



## Water Treatment System



 Water treatment plant decontaminates water on site and reduces high volume of groundwater

More than

 Million gallons
 decontaminated and
 piped to sewer system
 under required permits

### Former Manufactured Gas Plant PSE&G / PPG Coordinated Cleanup



Rich Blackman, P.E.
 Project Manager
 PSE&G

### **Next Steps: Cleanup Moving Forward**



- Work continues in dark green areas
- Light green areas are being prepared within weeks for next phase of cleanup
- Area closest to light rail line will start first
- Building demolition planned at corner of Garfield and Carteret
- Multiple crews will be at work throughout site



### Next Steps: Cleanup Pending Resolution of Property Issues



- Areas in dark blue south of Carteret Avenue are subjects of ongoing negotiations over property access and acquisition
- Property issues need to be resolved before clean up can begin

### **Exposure Prevention/Air Monitoring** Hex chrome remains below DEP limits

- Dust and hexavalent chromium levels stayed well below DEP-approved air-quality limits
   Air monitoring conducted 24/7
  - Two full-time air monitoring technicians on-site

 Multiple prevention and protection plans
 Dust Control – Continuous Management and Rapid Response Suppression
 Air Monitoring – Independent Verification
 Traffic Safety and Control
 Site Health & Safety

### **Cleanup to Date Average Concentrations**

Hexavalent chromium



### **Blood Tests Round #3** No hex chrome changes due to cleanup

- Third round of blood samples were taken from 30 residents living near the Garfield Avenue site who had previously participated
- As in Round #2, results showed no changes in blood that would indicate exposure to contaminated waste, despite increased excavation activity
- Exposure no different from other urban areas without chromium sites
- Samples analyzed by independent, certified lab
- Program administered by EOHSI
- Round #4 blood tests for existing participants will start in late spring



### **Residential Inspection Program** No chromium waste found to date

- Residents of specific areas can have their property inspected for the presence of chromium
- If found above health action levels, contamination will need to be cleaned up
- No cost to property owner, PPG pays
- 74 eligible properties have been examined under the program to the owners' satisfaction
- PPG has voluntarily remediated one property and is working on a second where low levels of chromium were found but are not attributed to PPG operations



### **Public Information Center**



- Located at 90 Forrest St.
- Hours are 10 a.m. to 2 p.m. Tuesdays and Thursdays, and by appointment
- Contains maps and other documents about cleanup sites





### **How to Reach Us**

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