

Update on Chromium Activities to

Jersey City Community

NJDEP

Division of Science, Research & Technology
February 15, 2006

Tonight's Meeting

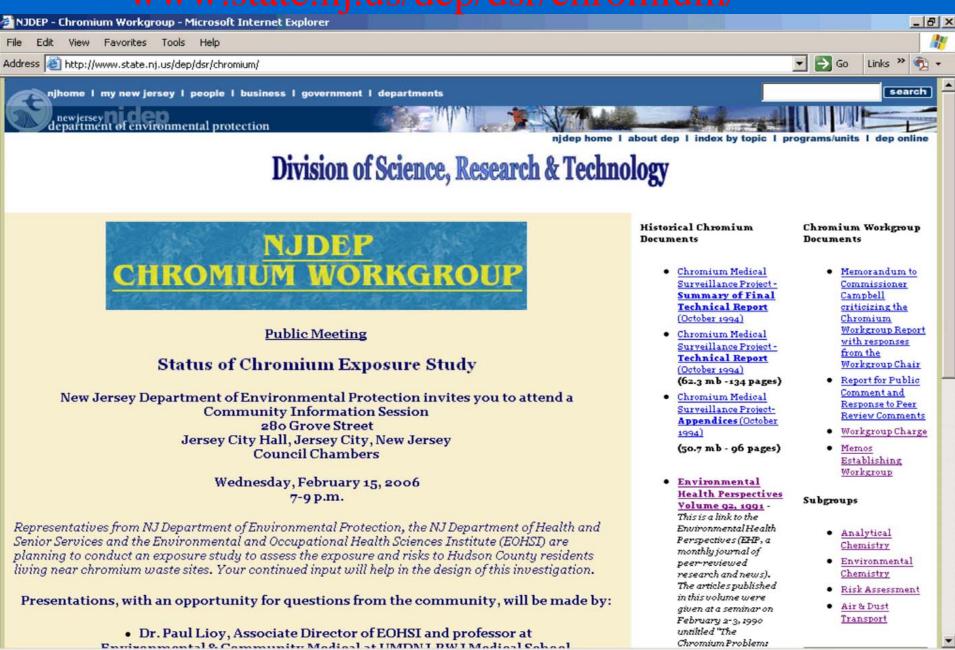
- Discuss issues raised at Dec. meeting
 - Present DSRT responses
 - Describe planned research studies 15 minutes
- Present overview of planned exposure study

 Questions, comments, concerns from audience

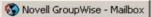


Recap of December meeting: Information Requests

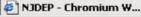
- List of capped sites in Hudson County
- List of all COPR sites in Hudson County
- Status of remediation at sites:
 www.state.nj.us/dep/srp/siteinfo/chrome/update32.htm
- Reports of completed studies

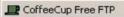










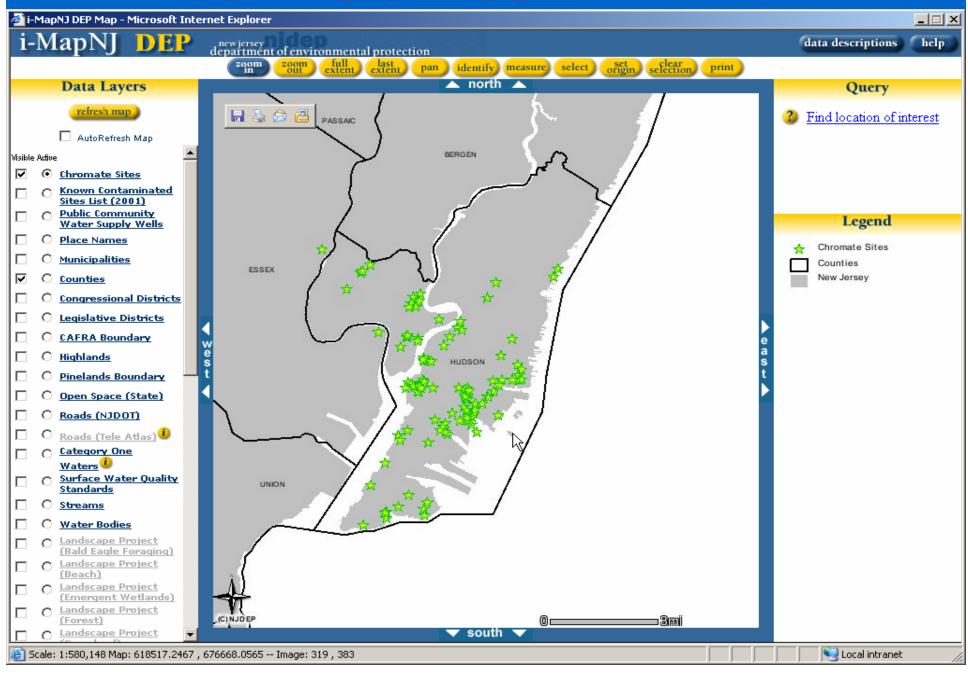






Local intranet

www.nj.gov/dep/gis/depsplash.htm#





Recap of December meeting: Action Items Identified by Community

- Issues raised by community
 - Track students/teachers from Whitney School
 - Concern about Garfield and Carteret Avenues and Society Hill
 - ICO follow-up sampling?
 - Track chromium transport from sites, especially capped sites



- Issue raised: Track students from Whitney School
- Response: Internal project to track students from this study and survey them on current health status.
- Assistance needed: Where are the students/teachers now?



- Issue Raised: Are lung cancers elevated in Hudson County near COPR sites?
- Response: DHSS to examine cancer registry to determine if lung cancer incidence is elevated.
- Assistance needed: Community input to determine geography (i.e., census tract).

- Issue Raised: ICO follow-up sampling?
- Response: Providing technical assistance and analytical support to ICO efforts.
- Assistance: Continued collaboration.

 Issue Raised: Concern about Garfield and Carteret Avenues and Society Hill

 Response: Site visit for possible inclusion in future exposure studies.

- Issue Raised:
 Track chromium transport from sites, especially capped sites.
- Response:

 Exposure study in residences near capped sites.





Sites Visit



Tour of sites

• February 8, 2006

Candidate locations for study



Sites Visit







Additional Research Planned

- Analytical methods
 - Soil: Evaluation of Three Analytical Techniques for Hexavalent Chromium
 - Air: Development and Optimization of a Sampling and Analytical Method to Measure Hexavalent Chromium in Ambient Air
- Particle Size Study: Evaluation of Chromium Concentrations on soil particles by particle size
- Recycling: Conversion of Chromium Ore Processing Residue to Chrome Steel

Chromium Exposure Study



- Significant concern that has not been addressed to date is transport from capped ("remediated") sites to residences.
- Commitment made to conduct an exposure study to address this concern specifically.

Phased Exposure Study: Dr. Paul Lioy



- EOHSI researcher
- National expert in exposure studies
- Particular expertise with dust/wipe sampling
- Experience with COPR sites