Consent Decree Update
Corrective Measures
Sparrows Point Steel Mill

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Corrective Measures Scope of Work

• Conduct site-wide investigation to
  – identify the extent of contamination
  – assess human health risk
  – assess ecological risk

• Implement interim measures to address releases that require immediate attention

• Perform a Corrective Action Study to identify a final remedy
Prioritize investigation in 5 Special Study Areas:

1. Greys Landfill
2. Till Mill Canal / Finishing Mill Area
3. Humphrey Impoundment
4. Coke Oven Area
5. Coke Point Landfill
Site Wide Investigation Findings

• Investigation of the 5 Special Study Areas was completed in 2006

• A hydrocarbon plume was identified at the Coke Oven Area seeping towards the bay that requires interim action

• The investigation has not revealed significant subsurface contamination in other areas that demand interim action
Naphthalene Source
Interim Measures (Coke Oven Area)

• In 2007, a skimmer was installed in one well to recover hydrocarbon product, but the recovery rate was slow and ineffective.

• In February 2009, EPA required Severstal to implement more aggressive measures to recover and contain the hydrocarbon plume.
In response to EPA’s demand, Severstal is finalizing an interim measures plan to install 6 prototype remediation cells:

- The remediation cells employ a combination of technologies: groundwater pumping, vapor extraction, product skimming, air sparging, groundwater reinjection, and enhanced bioremediation.
Prototype Remediation Cell 2
Solar-Operated Skimmer
• Construction of the first cell has begun this week
• Installation of all 6 cells will phase in by July 2011
Interim Measures (Rod & Wire Mill)
Interim Measures (Rod & Wire Mill)

• In 2001, the existing pump-and-treat system at the former Rod and Wire Mill was upgraded to more effectively recover cadmium and zinc in groundwater

• The upgraded system continues to operate
Next Steps

• Develop offshore sampling plan for implementation in 2011
• Severstal has disputed its obligation to perform this offshore sampling.
• EPA and Severstal are currently engaged in the dispute resolution process to resolve this matter
• Pending on the dispute resolution, Severstal is to complete the ecological and human health risk assessments to conclude the site-wide investigation by 2012