



1997 Consent Decree Sparrows Point Steel Mill

**Public Meeting
June 24, 2010**





Site History

1887 - First Furnace at Sparrows Point Built

1916 - Bethlehem Steel Corporation Purchases Facility

1930 – Coke Ovens Begin Operation

1950 – Tin Mill Canal Construction Begins

**1959 – Peak Production at Facility
Requires Operation of:**

- 12 Coke-oven Batteries
- 10 Blast Furnaces
- 4 Open-hearth Furnaces

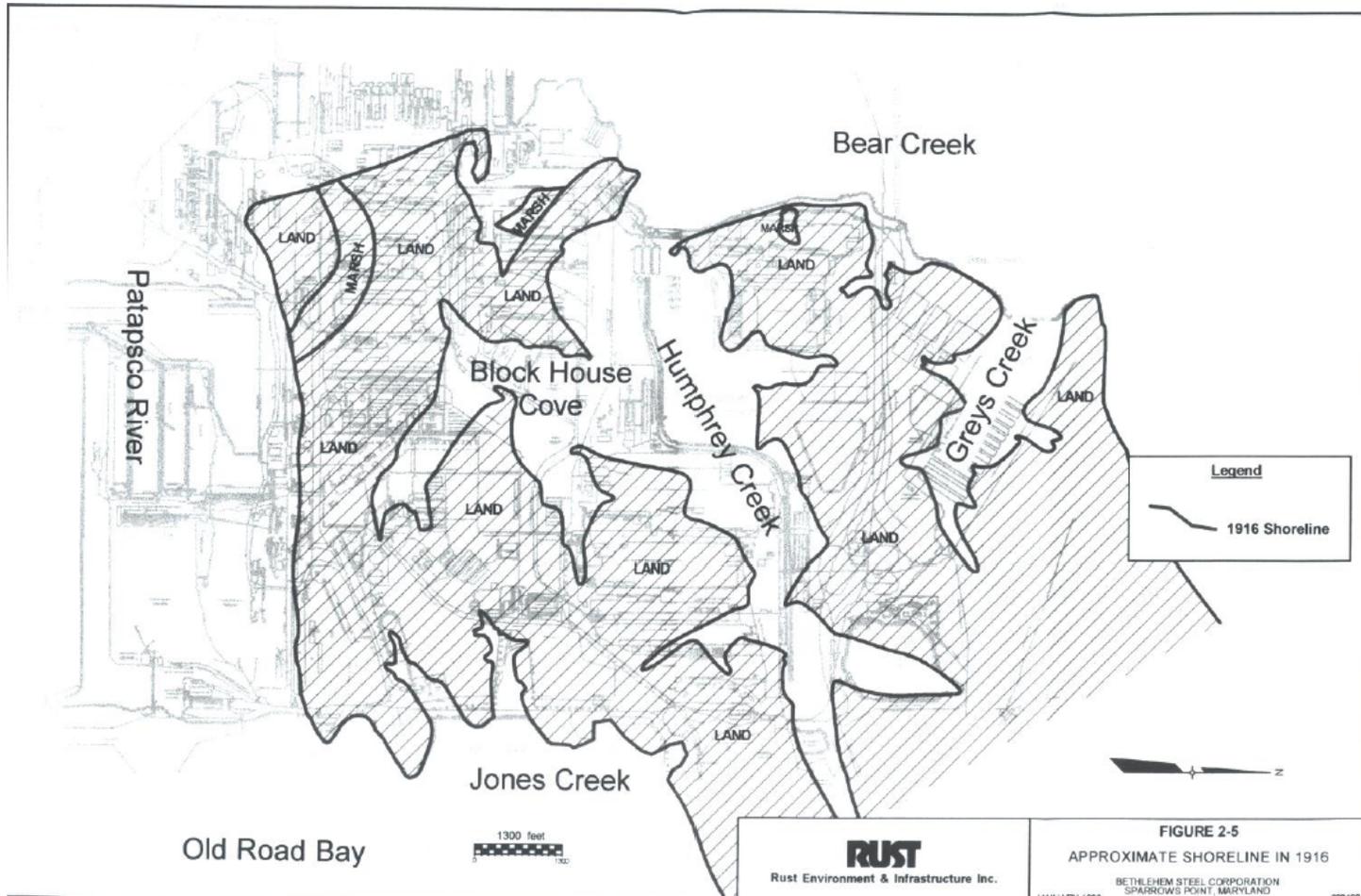
1970 – Tin Mill Canal Construction Cease

1991 - Coke Ovens Operations Cease

**Present Day - L Blast Furnace and
Basic Oxygen Furnace (BOF) Operating**

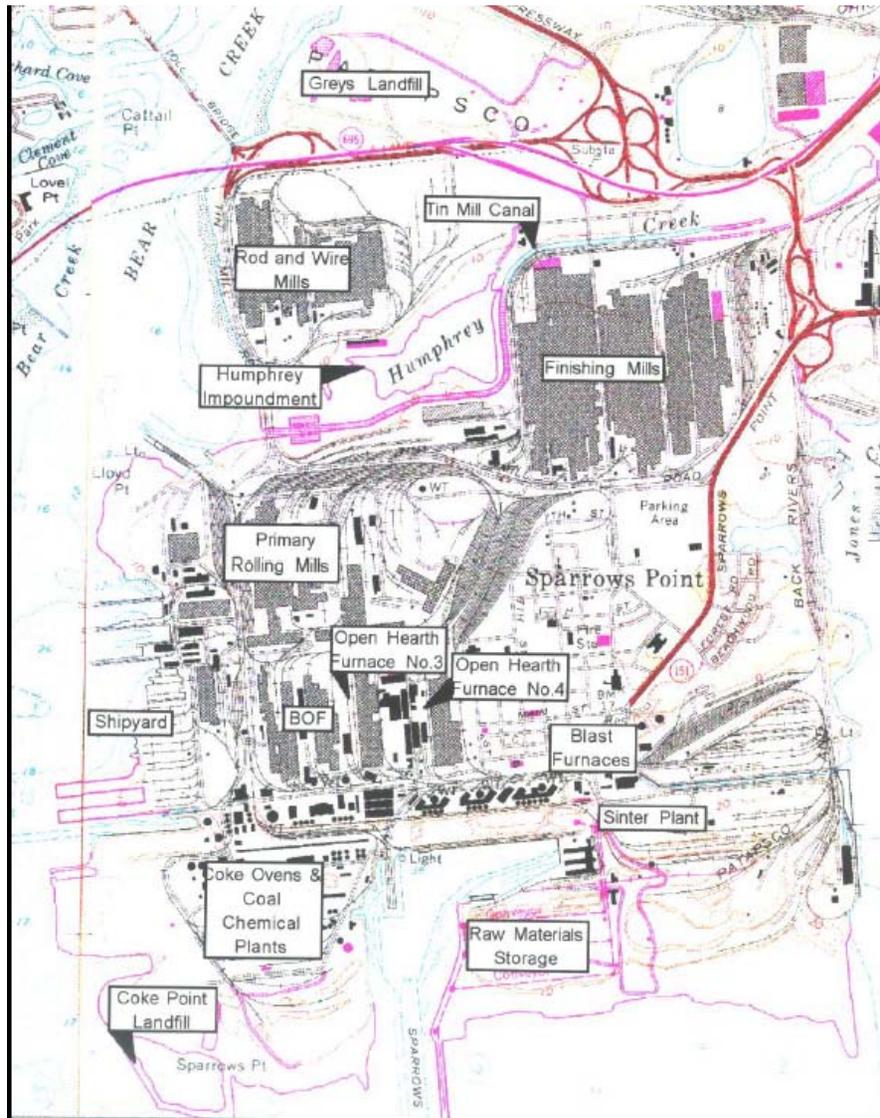


1916 Shoreline Map





Sparrows Point Steel Mill Historical Conditions





Regulatory History

- Resource Conservation and Recovery Act (RCRA) 1976
- Consent Decree Under Authority of Section 3008 (h)
- Hazardous and Solid Waste Amendments 1984
- Clean Air Act 1970, Amended 1990
- Maryland Department of the Environment 1987





1997 Consent Decree

- October 1997-United States of America and State of Maryland Department of the Environment v. Bethlehem Steel Corporation; Docket No. JFM-97-558 and JFM-97-559
- Consent Decree Binds EPA, MDE, Bethlehem Steel Corporation And All Future Owners To Complete Specific Tasks
 - Provides Technical Guidance And A “Rulebook” For All Participants





1997 Consent Decree Tasks

CORRECTIVE MEASURES (EPA LEAD)

- **Site Wide Investigation (RCRA Assessment)**
 - Human Health Risk Assessment
 - Ecological Risk Assessment (on and off-site)
 - Groundwater Assessment
- **Interim Measures**
- **Corrective Measures Study (CMS)**



WASTE MINIMIZATION

(EPA/MDE WITH CURRENT AND PREVIOUS OWNERS)

- **Inspection of all Sumps, Above Ground Tanks and Trenches**
- **Evaluate Tin Mill Canal Discharges**
- **Beneficial Reuse of Strong Caustic Solutions at Humphreys Creek Wastewater Treatment Plant**
- **Recycle Basic Oxygen Furnace (BOF) and Blast Furnace Air Emission Treatment Sludge**
- **Recycle Humphreys Creek Wastewater Treatment Plant Sludge**

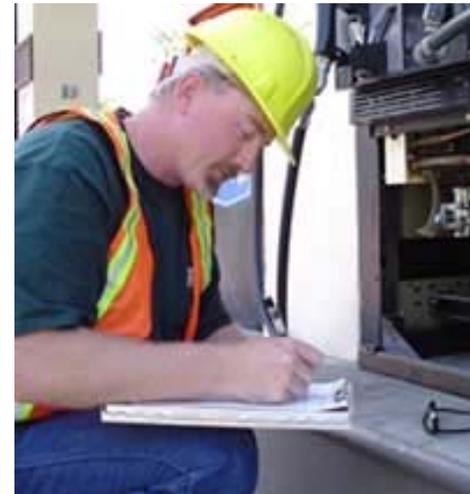




1997 Consent Decree Tasks (Continued)

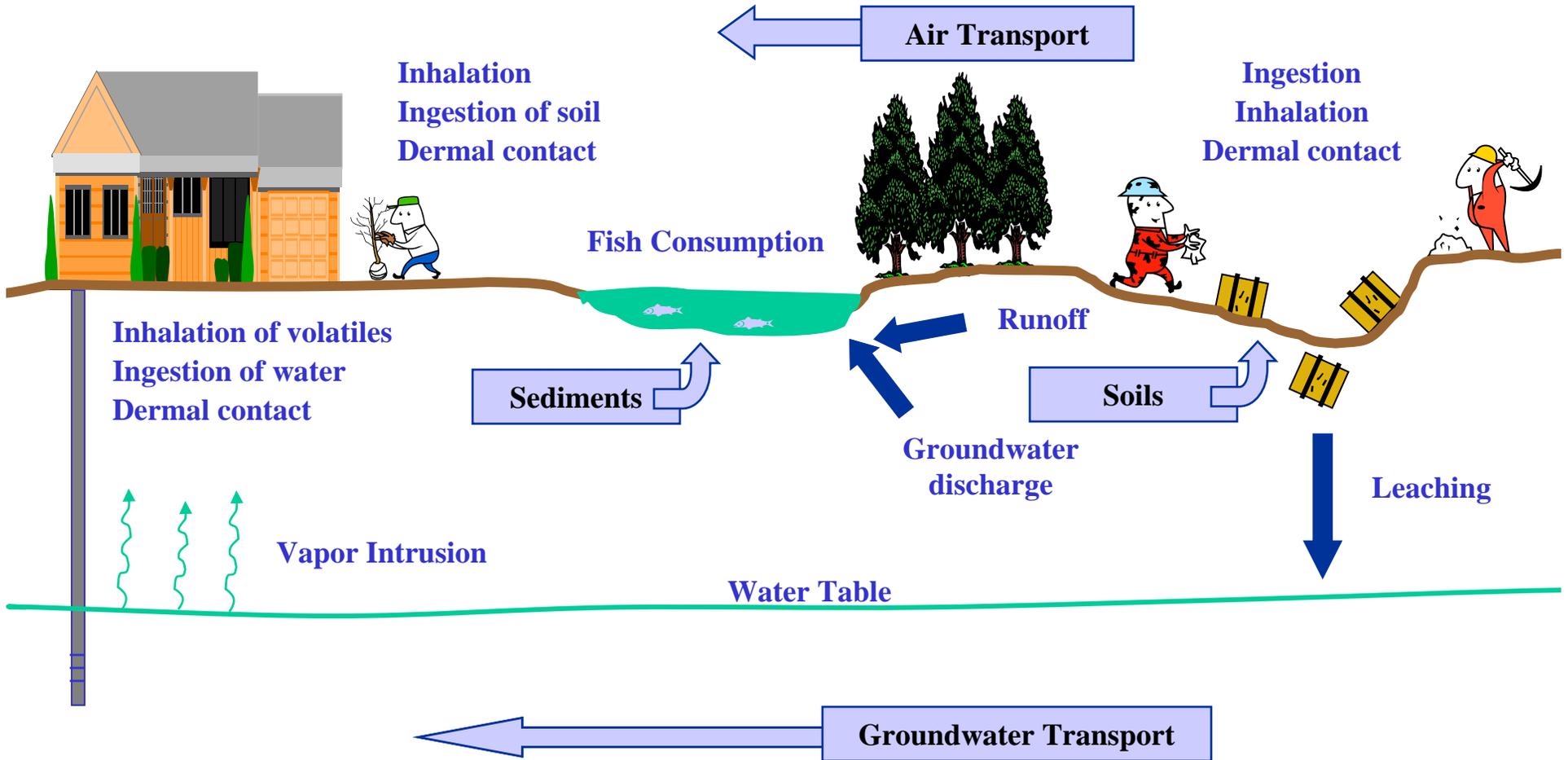
COMPLIANCE (MDE LEAD)

- **Compliance Requirements-Air**
 - Visible Emissions from Basic Oxygen Furnace (BOF) Shop Roof Monitor
 - Kish Reduction
- **Compliance Requirements-Solid Waste Landfills (Greys and Coke Point)**
 - Operations manual
 - Engineering Study
 - Compliance Plan
 - Monitoring
 - Closure Plan





Site Wide Investigation of Exposure Pathways





A Few Consent Decree Milestones

- Description of Current Conditions Report- January 1998
- Interim Measure Rod and Wire Mill Pump and Treat System Operational- September 2001
- Completion of Kish Reduction Plan-2004
- Sump/Tank Work Plan-Repairs Completed-2004/with ongoing inspection and repairs
- Site Wide Investigation Report of Nature and Extent of Releases to Groundwater from Special Study Areas-January 2005
- CA725 Facility Investigation and Human Health Risk Evaluation (HHRE) Findings- June 2005
- Greys Landfill Stabilization and Compliance Measures Completed-December 2008

*See Table 1 and Table 2 in the 2008 Annual Report for a more comprehensive list of submittals





Important Dates in Ownership

2001 – Bethlehem Steel declares bankruptcy

2003 – International Steel Corporation (ISG) acquires Steel Mill

2005 – ISG acquired by Mittal

2006 – Mittal merges with Arcelor

2007 – Federal Court orders sale of Steel Mill in February

2008 – Severstal acquires Sparrows Point Steel Mill on May 8th





For Additional Information:

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