Heron Pond / Heller Open Space

Environmental Conditions
• Time with family and friends
• Place for play
• Access to nature
• Place to exercise
• Wildlife habitat
• Relax outside
• Environmental issues can be safely managed
  – Contain, minimize, and prevent exposure
  – We all manage risks
  – Positive benefits far outweigh risks
What do these parks have in common?

- Ruby Hill
- City of Brest
- Johnson Habitat
- Commons
- Pulaski
- Paco Sanchez
- Lowry Great Lawn
- Vanderbilt
- Northside
Environmental issues with management:

• Ruby Hill (buried waste, gw, soil)
• City of Brest (buried waste)
• Johnson Habitat (buried waste, soil, settling)
• Commons (former railyard, soil, buried waste)
• Pulaski (buried waste, soil)
• Paco Sanchez (buried waste)
• Lowry Great Lawn (gw, buried ash, soil)
• Vanderbilt (buried waste, sediments, soil)
• Northside (buried waste, soil, gw, sediments)
Heron Pond / Heller Open Space / Northside
Buried Debris

- Source: Former Northside Treatment Plant (NTP)
  - Concrete rubble and steel debris
  - Debris covered with four feet of soil
  - Other locations include wood and debris

- Constraints
  - Geotechnical construction issues
  - Limits excavation unless removed
  - Disposal costs if excavated
Metals in Soil

- **Sources:** ASARCO Globe Plant
  - Areas with arsenic, cadmium and lead
  - Typically covered with 12” soil

- **Constraints**
  - Compliance with Land Use Controls
  - Plan/manage any excavation
  - Costs to manage/dispose excavated soils
  - Maintain cover
Metals in Sediment

- Shallow surface water covers sediments (map is of water depths, 2-4’)
- Elevated metals in sediments (As, Cd, Hg)
- Potential sources:
  - Historical storm water runoff?
  - Historical aerial deposition?
- Constraints:
  - Limits some activities unless sediments removed
  - Significant costs for excavation and management of sediments
Sources: Former rendering/meat packing
- Some carcass material
- Elevated oil and grease
- Covered with 12 to 15 feet of soil
- Not accessible

Constraints:
- Limits excavation to depth
- May limit tree installation
Petroleum Waste in Soil

- Sources: Imported fill
  - Asphalt road-base like material
    - Diesel fuel and motor oil
    - Estimated to include 11,000 cubic yards
      - Covered by thick layer soil
      - Not accessible
- Constraints
  - Disposal costs if excavated
  - If left in place, maintain cover
Lead Slag Remnants

- **Source: Asarco Globe Plant**
  - Generally covered with layer of soil
    - Some surface expression
  - > 50,000 cubic yards of soil/slag left on site

- **Constraints:**
  - Maintain cover
  - Costs for management, disposal if excavated
Groundwater Conditions

• Groundwater movement to northeast toward river
• Depth to GW – 7 to 12 feet
• Northern plume intersects Heron Pond
• Low levels of metals in groundwater in southern portion
• Constraints
  – May require treatment of construction dewatering
  – May limit excavation due to costs of treatment
Land Use Controls

- Limitations on future land use
  - Conservation Easement and Deed Restrictions

- Prohibited Uses
  - Construction of buildings & Structures
  - Paved roads/trails
    - Must use crushed rock material
  - Commercial or industrial activity
  - Active recreational uses
    - Playgrounds, golf courses, ball fields, tennis, etc.
  - Commercial signing
We Can Safely Manage Constraints

- These parks are well-loved assets for their communities:
  - Ruby Hill
  - City of Brest
  - Johnson Habitat
  - Commons
  - Pulaski
  - Paco Sanchez
  - Lowry Great Lawn
  - Vanderbilt

- Environmental issues are safely managed.

- Northside can be similar.
Thank you!

Questions?