

# Hershey Mill Dam Pond Looking NE



# Hershey Mill Dam Pond Looking North



# Hershey Mill Dam

## East Embankment Looking Towards Spillway



# Hershey Mill Dam Embankment East of Spillway



Erosion Area

# Hershey Mill Dam

## Looking Downstream from East Embankment



# Hershey Mill Dam

## Looking Downstream from East Embankment



# Hershey Mill Dam

## Looking Downstream from East Embankment



# Hershey Mill Dam

## Looking Downstream from East Embankment



# Dam Upgrades – October 2008

- Option 1 – Addition of 200 feet of concrete spillway adjacent to existing stone spillway
- Option 2 – New spillway of articulated concrete block (ACB) – (emergency spillway??)
- Option 3 – Breach the dam and restore the stream
  - Sediment testing results

# Other Options/Discussions

- Preserve spillway and viewscape
  - Pump water over spillway
- Appropriate stream restoration

# Commentary to Township

- Cost estimate without detail or apparent contingency
- Construction cost elements not defined
  - Removal/Management of Sediment – possibly \$3 to \$5/CY w/o Transportation & Disposal
    - Clamshell
    - Mudcat or Divers
  - Stream Restoration Costs - up to \$1 million/stream mile
    - Approximately 0.2 to 0.3 stream miles
    - Wetlands/Habitat
    - Re-stocking
    - Flora/Fauna

# Potential Dam Restoration Elements

- Slope/Wall Stability
  - Sheetpiling
  - Remove wall/ extend slope
  - Rip-rap against stone wall
- Hydraulic
  - Spillway crest lowering (w/ flashboards or gate)
  - Embankment armoring

# Maintenance – Near Term

- Tree/ vegetation removal
- Repair of eroded/scoured areas
- Low outlet valve operational?
- Access to Dam

# Discussions

