DuPONT POMPTON LAKES WORKS
PUBLIC AVAILABILITY SESSIONS

JUNE 19, 2013
STATUS OF PERMIT APPEALS

- Permit Appeals by DuPont & Passaic River Coalition -
  - February 2013

- Stay of the Permit Appeal Requires:
  - August 26, 2013: Progress Status Report
  - October 25, 2013: EPA Response if Issues Unresolved

- Meetings with DuPont
  - Progress to Determine Scope of Sediment/Ecological Risk
  - Fieldwork to Resolve Appeal
  - Fieldwork Expected in July/August

- Meetings with Passaic River Coalition: Status Update
STATUS OF BIOREMEDIATION PILOT

Activities Conducted - May 2013

- Soil Gas Probe/Water Level Loggers Installed in Injection/Extraction Wells
- Start-up/Leak Testing to Ensure Functionality
- Electrical Work Required Repair
- Baseline Sampling Conducted
STATUS OF BIOREMEDIATION PILOT

Activities - Week of June 10th

- EPA Site Visit to Observe System - June 6th

- Pre-Pilot Initiation Test with Water to Injection Pumps “Dosing” Correctly

- Bromide Injection to Verify Recirculation is Occurring

- Sodium Lactate Injection
STATUS OF BIOREMEDIATION PILOT

Pilot Study Performance Monitoring

• Daily (First 2 Weeks)
  - Monitoring Circulation of Lactate and Water Levels

• Bi-weekly (As of July 1st)
  - Sampling Extraction Well and Monitoring Well at Two Depths

• Monthly (As of July 1st)
  - Additional Well Sampling at Multiple Depths/Soil Gas Sampling
EISB Pilot Study
Extraction Well and Instrumentation
(Chamber Interior)
STATUS OF HORIZONTAL WELL FLUSHING

Design Plan for the Hydraulic Surcharging

• Establish Location of Piping

• Water Table Monitoring

• NJDEP Permit-By-Rule
  - Will be for Greater than 180 days
  - Outreach and Public Notice to be Determined
RESULTS of MAY 16 TECHNICAL GROUNDWATER MEETING

- Technical Reps from EPA/CAGs/DuPont Attended and the Consensus was that It Went Very Well

- General Agreement that Hydraulic Flushing of the Shallow Groundwater Zone Had Potential to be Very Effective

- Remedial Technologies to Address Contamination Causing Vapor Intrusion are Limited
FOLLOW-UP TO MAY 16 TECHNICAL MEETING

- EPA to Review 2010 Report on Alternative GW Remedial Technologies

- EPA to Perform Analysis to Determine Correlations Between VOC Concentrations in the Soil Gas and in GW

- EPA to Evaluate Potential to Employ Additional Technologies to Address Vapor Intrusion
STATUS UPDATE - VAPOR INTRUSION PROGRAM

- Vapor Mitigation Systems Installed
  - 247 (DuPont/O’Brien & Gere)
  - 56 (Third Party Contractor)

- Vapor Mitigation Systems “In Pipeline” For Installation
  - 3 (DuPont/O’Brien & Gere)
  - 26 (Third Party Contractor)
FISH ADVISORY SIGNAGE

• Concerns Raised About Need for Additional Fish Advisory Signage for Pompton Lake

• Local Officials Purchasing Additional Signage (7 in English/Spanish for Placement)

• Locations Include: Within Rotary Park/Ramp Area with Signs Facing Water/Lakeside Avenue Bridge
RESULTS OF CLADDING TUNNEL INSPECTION

• Concerns Raised About Presence of Depleted Uranium in Tunnel

• Department of Energy File Review Indicated No Depleted Uranium Was Ever Present on the DuPont Pompton Lakes Works Site

• EPA Radiological Specialist Inspection June 6th Revealed No Presence of Depleted Uranium
Review of Cladding Tunnel Inspection

- DOE Radiological Record Search: No Records Related to Depleted Uranium or Other Radiological Contaminants

- EPA Physical Inspection: All radiation readings at entrance of the tunnel and inside tunnel were within the natural background level ranging from 6-16 uR/h
REVIEW OF AIR MONITORING/MODELING PROPOSAL

• Received Proposal for Air Monitoring/Modeling in Pompton Lakes Vapor Mitigation Area

• Rationale for Proposal Indicated that NJDEP Modeling had Underestimated VOC Emissions

• EPA and NJDEP Reviewed the Proposal
REVIEW OF AIR MONITORING/MODELING PROPOSAL

FINDINGS:

- Modeling Previously Performed by NJDEP Followed EPA Guidelines

- Contractor Model Run in “Rural” Mode, Limiting Nighttime Dispersion vs. Using Data from Newark Only Causes Minor Increase in VOC Concentrations

- VOC Emissions From the Air Stripper Is the Dominant Source
REVIEW OF AIR MONITORING/MODELING PROPOSAL (continued)

- Increasing the Contribution of VOC Emissions From Soil in the Modeling Would Not Likely Cause Exceedance of a Health-Based Benchmark

- 600+ Ambient Air Samples From the Community Over 5-Years Support Conclusion that VOC Contributions from Soil are Low

- Sampling Transects in Neighborhood May Not Produce Results Indicative of Exposure to VOCs from the Subsurface Due to Other Potential VOC Sources in the Community

- If Valid Samples Could be Taken, Sampling Protocol Requires Extensive QA/QC Documentation to Meet Goals of the Community & Meet EPA Standards for Sampling and Analysis
QUESTIONS???????