POMPTON LAKES WORKS SITE
PUBLIC AVAILABILITY SESSION

MARCH 30, 2017
AGENDA

- Pompton Lake Study Area Dredging/Removal
  - Overview/Summary of Season 1 Work (2016)
  - Season 2 Work (2017)
  - Community Concerns
  - Schedule

- Hydraulic Surcharging Pilot Study
- On-site In-situ Chemical Oxidation Pilot Study
- On-site Corrective Measures Study
- Vapor Intrusion Status Update
“DREDGING” PROJECT OVERVIEW

- Pompton Lake Study Area (Dredging/Off-site Disposal of Sediments)
  - Acid Brook Delta (ABD) Sediments - Approx. 36 Acres
  - Pompton Lake - Lakeside Ave. Bridge to Pompton Lake Dam
    ✓ Area A - Approx. 0.5 Acres
    ✓ Island Area - Approx. 2.5 Acres

- ABD Upland Soil Areas (Excavation/Off-site Disposal)
  ✓ Removal From 16 Delineated Areas With Depths Ranging from 0.5 to 9 ft. Below Ground Surface

- Eco-layer Placement in ABD/Island Area/Area A
  ✓ 6” Layer to Facilitate Biological Growth

- Restoration/Long-term Monitoring
SEASON 1 (2016) SUMMARY

✓ Approx. 28,810 Cubic Yards (CY) Impacted Soil/Sediment Excavated/Dredged, Processed and Disposed Off-site

✓ Volume Disposed Off-site Involved Transport of 1,955 Loads of Impacted Material

✓ Over 30,000 Safe Man-hours Worked With No Injuries/Incidents

✓ No Exceedances of Action Levels Related to Turbidity in Lake, Perimeter Dust and Mercury Air Vapor Monitoring

✓ Treated Water From Dredged Sediment Discharged to Lake Met Criteria Listed in the NJDEP Permit Except During One Discharge Event - Addressed by Chemours

33 Community Updates Sent by EPA During/Post Season 1 Dredging
SEASON 2 (2017) PREPARATORY ACTIVITIES

- Installation of Treatment and Other Equipment in the Work Area

- Site Reconfiguration (e.g. Internal Site Roads) to Accommodate Hydraulic Dredging

- Installation of an Energy Supply to the Work Area For Sediment Processing Equipment to Support Hydraulic Dredging

- Pre-Dredging Water Activities (e.g. Sampling For Waste Characterization Purposes as Required by Disposal Facility and Bathymetric Surveying)
SEASON 2 (2017) PREPARATORY ACTIVITIES

- Preparing the Acid Brook Delta for Dredging Including Installation of a Turbidity Curtain and Fish Relocation

- Routine Inspection of Site and Work Areas per Approved Permits and for Safety Purposes

- Modification of New Jersey Department of Environmental Protection Permits to be Consistent With Changes in the Sediment Treatment Processes
SEASON 2 (2017) PLANNED ACTIVITIES

- Excavate Approximately 1 CY Soil From Area A1 in Uplands Soil Area - Could Not be Excavated in 2016 Due to Presence of Sewer Pipe

- Hydraulic Dredging and Ecological Layer Placement Within 36-acre ABD

- Perform Turbidity and Air Perimeter Monitoring in Accordance With EPA-Approved Work Plan

- Complete Ecological Layer Placement in the Island Area and Area A—Weather Conditions Prevented Completion in 2016

- Field Oversight by EPA

- EPA Will Provide Weekly Community Updates Once Dredging is Initiated
Region 2 serving the people of New Jersey, New York, Puerto Rico and the U.S. Virgin Islands

Site Layout

[Site Layout Diagram]

3/30/2017
2017 SEQUENCE OF ACTIVITIES

- Currently in Progress/Through April
  - Remobilize/Site Preparation
  - Install Dredging and Water Treatment Plan Equipment
  - Install Turbidity Curtain/Fish Relocation
  - Eco-Layer Placement at Area A
  - Fish Relocation
- Dewatering/Water Treatment System Testing - early May
- Hydraulic Dredging of ABD - May through November
- Initiate Eco-layer Placement Island Area/ABD - November/December
- Winter Shutdown - December
COMMUNITY CONSIDERATIONS - TRAFFIC CONTROL

- Traffic Control Measures Successfully Implemented in 2016

- Work Hours
  - M-F Set-Up 6AM-7AM/Work 7AM-7PM/Clean-Up 7PM-7:30PM
  - Saturday Hours, if Needed

- Trucking Restrictions
  - School Opening/Closing - Construction-Related Traffic Will be Prohibited
  - Restricted Times - 7:45AM - 8:30AM and 2:30PM - 3:15PM
  - Flagmen Utilized to Control Entry/Exit to the Work Site

- Heavy Vehicle Dispatch
  - Random Check of Trucks to Assess Compliance With Following Route
  - Wayne Police at Lakeside Ave./Terhune Dr. Intersection Due to Heavy Traffic

3/30/2017
COMMUNITY CONSIDERATIONS - SITE SECURITY/NOISE/ODORS

SITE SECURITY
- No Issues With Site Security in 2016

ODORS
- No Issues With Odors
- Contaminants of Concern (i.e. Mercury/Lead) Not Expected to Cause Odors
- Nuisance Odors Associated With Natural Material/Decay Processes in Pompton Lake Not Detected Except At Processing Area

NOISE
- No Issues With Noise in 2016
- Sediment Processing/Water Treatment Equipment May Generate Short-term Noise But Below Thresholds For Further Action
- Concerns With Vibration in Homes Investigated
COMMUNITY CONSIDERATIONS - AIR MONITORING

Dust Monitoring/Verification

- Continuous Real-Time Monitoring For Dust During Soil Excavation in Uplands and Sediment Handling/Processing

- Fixed Locations Along Work Area Perimeter Including One Location Adjacent to Lakeside Middle School

- No Action Level Exceedances Associated With Work Area Activities

- Dust Control Measures Implemented
  - Water Misting During Tree Clearing
  - Water Mister Stationed on Fence Along Lakeside Avenue
  - Water Misting During Sediment Processing
  - Truck Spraying Water on Site Haul Roads and Lakeside Avenue
  - Street Sweeping Along Lakeside Avenue
COMMUNITY CONSIDERATIONS - AIR MONITORING

Mercury Vapor Monitoring/Verification

2016

- Real-Time Monitoring For Mercury Vapor at Downwind Location With a Portable Mercury Vapor Analyzer Completed During Uplands Soil Excavation

- Voluntary Monitoring For Mercury Vapor With Portable Mercury Vapor Analyzer Performed in Vicinity of Island Area

- No Exceedances of Action Levels

2017

- Daily Monitoring at the Downgradient Dust Station Location
COMMUNITY ENGAGEMENT ACTIVITIES

- Presence On-site to Respond to Questions/Concerns
- On-going EPA Availability at Municipal Building on Thursdays to Answer Questions Regarding Pompton Lake Study Area Clean-up
- Access to Website to Observe Monitoring Data During Construction
- Weekly Community Updates Sent by EPA Via Email Summarizing Work Activities
HYDRAULIC SURCHARGING PILOT STUDY

- Work Plan Including Final Design and Permit-by-Rule (PBR) Application Submitted to EPA/NJDEP Has Been Approved

- Approved Work Plan Will be Posted on EPA/NJDEP Websites

- Public Notice Issued March 26th With a 30-Day Public Comment Period and Opportunity for Public Hearing, Which Has Been Requested

- Written Comments Can be Submitted to NJDEP and Chemours/Oral Comments Will be Heard at Public Hearing, Which Has Been Requested

- Once All Permits Obtained, Implementation of Pilot Study to be Initiated
IN-SITU CHEMICAL OXIDATION (ISCO) PILOT STUDY

- Pilot Study Evaluating An Additional Technology to Address Groundwater

- ISCO Work Plan Approved/Permit-by-Rule Issued September 2016

- Implementation of Pilot Study in Phases
  - ✓ Design Testing to Optimize Operational Parameters
  - ✓ Submit Final Pilot Study Work Plan With Final Design
  - ✓ Full-Scale Pilot Study Implementation

- Design Testing Fieldwork Implemented to Optimize Operational Parameters and Collect Info Regarding Technology Feasibility/Implementability Given Hydrogeologic and Geochemical Conditions Existing in Subsurface
IN-SITU CHEMICAL OXIDATION (ISCO) PILOT STUDY

• Scope of Work

  ➢ Installation of Injection/Monitoring Points in Five Areas - Completed December 2016

  ➢ Injection of Sodium Persulfate/Hydrogen Peroxide Solution at Varying Depths and Collection of Performance Monitoring Data - Completed January 2017

• Evaluation of Data Determined that Additional Information Needed to Design Implementation of Full-Scale Pilot Study

  ➢ Data Collection Efforts to be Completed in Next Several Weeks (weather dependent)

  ➢ Evaluation of Additional Data Necessary to Define Steps Required for Feasibility Evaluation and/or Final Design
CORRECTIVE MEASURES STUDY (CMS)

- Initial EPA/NJDEP CMS Comments Transmitted to Chemours
- Additional EPA/NJDEP CMS Comments to be Transmitted to Chemours Regarding Their Proposed Site Remediation Standards/Land Use
- Chemours to Revise CMS Based on NJDEP/EPA Comments
- Once Reviewed by EPA/NJDEP, CMS Will be Presented to Community Via Public Information Session
- Draft Permit Modification Will be Prepared With a Public Hearing/Public Comment
VAPOR INTRUSION (VI) UPDATE

- Number of Vapor Mitigation Systems Installed - 335
- Termination Sampling Completed - 2
- 1 Property in Process of Termination Sampling
- EPA/NJDEP and/or Chemours Continue to be Available to Answer Questions About the VI Program and Communication Package Sent in July 2015
Questions??

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