POMPTON LAKES WORKS SITE
PUBLIC AVAILABILITY SESSION

APRIL 28, 2016
AGENDA

- Pompton Lake Study Area Dredging/Removal Overview
- Community Concerns
  - Traffic
  - Security
  - Odor Monitoring/Control
  - Noise Monitoring/Control
  - Air Monitoring/Dust Control
  - Proximity to School/Residents Along Lakeside Avenue
- Monitoring Reporting
- EPA Oversight of Construction Activities
- Anticipated Schedule
“DREDGING” PROJECT OVERVIEW

- Pompton Lake Study Area
  - Acid Brook Delta (ABD) Sediments - Approx. 36 Acres
  - Pompton Lake Sediments - Lakeside Ave. Bridge to Pompton Lake Dam
    - Area A - Approx. 0.5 Acres
    - Island Area - Approx. 2.5 Acres

- ABD Upland Soil Areas
  - Upland Soil Areas Outside Wetland/Wetland Transition Zone
  - Areas Within Wetland/Wetland Transition Zone
  - Removal From 16 Delineated Areas With Depths Ranging from 0.5 to 9 ft. Below Ground Surface
  - Estimated Removal Volume is 3,160 CY
REMEDIATION PROJECT SUMMARY

- Corrective Measures Implementation Work Plan Prepared by Chemours Reviewed/Approved by EPA/NJDEP

- Remedial Approach for Sediment is Hydraulic and Mechanical Dredging and Restoration

- Remedial Approach for ABD Upland Soil Areas is Conventional Excavation and Restoration

- Dredged Sediment/Removed Soil Will be Disposed Off-site

- Field Oversight by EPA and/or NJDEP
“DREDGING” PLANNING DOCUMENTS

- Corrective Measures Implementation Work Plan (CMI WP)
  
  http://www3.epa.gov/region02/waste/dupont_pompton/additionaldocs.html

- Dredging/Removal Methods
- Materials Handling/Transportation
- Disposal of Sediment/Soil
- Restoration Details
- Health & Safety Plan/Quality Assurance Plan/Reporting
- Permitting and Other Approvals
- Project Schedule and Management

- Remediation & Restoration Plan Within Appendix A Project Operations Plan
COMMUNITY CONSIDERATIONS - TRAFFIC CONTROL

- Traffic Control Plan Developed With Input From Community/Local (Pompton Lakes Police Dept./Borough Engineer)/County (Passaic County Engineering Dept.) Officials

- Work Hours
  - M-F Set-Up 7AM-8AM/Work 8AM-6PM/Clean-Up 6PM-7PM
  - Saturday Hours - “Make-Up” Production Day If Needed/Same Working Hours as Weekdays
  - Advance Notification to the Extent Practicable for Saturday Work

- Trucking Restrictions
  - School Opening/Closing - Construction-Related Traffic Will be Prohibited
  - Restricted Times - 7:45AM - 8:30AM and 2:30PM - 3:15PM
  - 5 MPH Speed Limit Enforced Within Work Site
  - Flagmen Utilized to Control Entry/Exit to the Work Site
COMMUNITY CONSIDERATIONS - TRAFFIC CONTROL

- Parking
  - Shuttle Bus Workers From Pompton Lakes Work Site on Cannonball Road
  - Limited Parking at Rotary Park for Project Personnel
  - Service Vehicles (e.g. Landscapers) for Lakeside Avenue Residents Between Work Area & Lakeside Avenue Bridge Will be Unable to Park on Lakeside Avenue

- Heavy Vehicle Dispatch
  - Trucks Staged Outside Borough & Dispatched as Needed Minimizing Idling and Traffic Build-up
  - Only a Few Trucks On-site at a Time Due to Limited Size of Work Space

- Emergency Vehicles
  - No Full Road Closure of Lakeside Avenue Except For Brief Times to Allow Entrance/Exit of Large Trucks/Equipment Aided by Flagmen
  - Single Lane Closure of Lakeside Avenue Allows for Emergency Vehicle Passage
COMMUNITY CONSIDERATIONS - TRAFFIC CONTROL

- Signage
  - Impact to Pedestrian Traffic Due to Fence Installation Proximate to Sidewalk
  - Signage For Duration of Construction - Shrouded When Not in Use
  - Advance Signs Placed on Both Sides of Closed Section of Sidewalk on South Side of Lakeside Avenue
  - Guide Signs to Direct Pedestrians Around Work Area
  - Service Vehicles (e.g. Landscapers) for Lakeside Avenue Residents Between Work Area & the Lakeside Avenue Bridge Will be Unable to Park on Lakeside Avenue
  - Pompton Lakes Police Dept. to be Dispatched to Direct Traffic at Either End of Lakeside Avenue During Lane Closure

4/27/2016
TRAFFIC SIGNAGE LAYOUT

Figure 4: Sign Layout Map
2 Lanes, Undivided, Lane Closing with Flagging

LEGEND:
- APPROXIMATE PROJECT AREA
- CORRECTIVE MEASURE (REMOVAL) AREA

SCALE IN FEET
0 100 200
Pedestrian Route Along Lakeside Avenue

- **Primary Route**
  - Cross Lakeside Avenue at Mandeville Street
  - Continue Along Northern Side of Lakeside Avenue Using Existing Sidewalk

- **Alternate Route**
  - Cross Lakeside Avenue at Mandeville Street
  - Continue North/Northwest on Mandeville Street to Broadway
  - Continue West/Northwest on Broadway to Van Avenue
  - Continue South on Van Avenue to Lakeside Avenue
Figure 2: Primary and Alternate Pedestrian Route
COMMUNITY CONSIDERATIONS - TRAFFIC CONTROL

- Haul Route: Delivery of Materials/Equipment/Clean Fill & Removal of Contaminated Sediment/Soil

- Outbound Route (Inbound Route is Reverse)
  - East on Lakeside Avenue to the Stop at the Bridge
  - East on Lakeside Avenue Over the Bridge to Terhune Avenue (Route 202)
  - South on Terhune Avenue (Route 202) to Paterson-Hamburg Turnpike
  - North on Paterson-Hamburg Turnpike
  - West on Paterson-Hamburg Turnpike to I-287 Interchange 53

- Coordination With Pompton Lakes/Wayne Police Departments Regarding Lakeside Avenue/Terhune Drive Intersection Due to Grade of Road/Heavy Traffic
HAUL ROUTE

Figure 7. Haul Truck, PLW Materials, Truck Route, and Pedestrian Routes.

Region 2 serving the people of New Jersey, New York, Puerto Rico and the U.S. Virgin Islands
COMMUNITY CONSIDERATIONS - SITE SECURITY

- Temporary Fencing With Areas That Have Visual Barriers
- Signage Indicating Site Access is Restricted (e.g. No Trespassing)
- Photographic Surveillance
- Contractor Personnel Designated with Site Security Responsibility During Working Hours
- Private Security Firm Providing Coverage During Non-Working Hours Including Nights & Weekends
- Pompton Lakes Police Patrols of the Area at Night/on Weekends as Part of Their Routine Activities
COMMUNITY CONSIDERATIONS - ODOR CONTROL

- Nuisance Odors Associated With Natural Material/Decay Processes in Pompton Lake Can be Expected

- Contaminants of Concern (i.e. Mercury/Lead) Are Not Expected to Cause Odors

- An On-site Monitoring Team Will Continually Inspect Work Areas to Identify Odors as They Occur

- If Detected, Remedial Action Contractor Will Apply Mitigation Strategies
COMMUNITY CONSIDERATIONS – ODOR CONTROL

- Operational Strategies to Mitigate Odors Include:
  - Minimizing The Extent/Duration of Open Excavations
  - Installation of Backfill as Soon as Soil Excavations Are Complete
  - Implementing Dust Control Measures (e.g. Water Mist/Spray)
  - Minimizing Stockpiling of Excavated Material
  - Covering Stockpiles
  - Enclosing Individual Pieces of Equipment

- Additional Engineering/Operational Strategies to Mitigate Odors Include:
  - Apply Foaming Agent on Open Material to Provide Barrier to Contain Odor
  - Use of Odor Neutralizers (Not Deodorizer) if Foaming Agent Not Effective

- EPA Would Review/Approve Use of Odor Control Products Not Already Specified in Approved Work Plan
COMMUNITY CONSIDERATIONS - NOISE CONTROL

- Sound Levels Routinely Monitored During Work Day
  - 2x/Day at Locations Along Work Perimeter Nearest Noise Sources
  - New Noise Sources Begin or Create Higher Than Normal Noise
  - When Concerns Are Identified From the Community

- No Local Quantitative Noise Limit/Use New Jersey Limit of 65dBA For Daytime Noise

- Proactive Measures: Vibratory Method to Drive Sheetpile vs. Drop Hammer/Insulation Around Dredge Engine

- If Exceeded, Noise Controls/Modifications to the Work Operation Would be Implemented: Installing Mufflers on Gas Engines/Turn Off Equipment When Not in Use
COMMUNITY CONSIDERATIONS - AIR MONITORING

Dust Monitoring/Verification

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

- 4 Fixed Locations Including One Location at Lakeside Middle School

- Early Warning Levels: If Exceeded, Prompt Evaluation And Dust Control Measures Implemented If Attributed to Work Activities

- Action Level Exceedance: 4 Consecutive Action Level Exceedances Then Sample Collection/Mercury Analysis & Dust Control Measures If Needed

- Dust Control Measures: Spraying Water on Identified Source(s)/Restrict Vehicle Speeds/Covering Excavation Faces
COMMUNITY CONSIDERATIONS - AIR MONITORING

**Mercury Vapor Monitoring/Verification**

- Previous Investigatory Work (Sampling/Modeling) Indicates Mercury Vapor is Not Expected to be Released During Sediment Handling/Processing

- Real-Time Monitoring For Mercury Vapor With a Portable Mercury Vapor Analyzer During Excavation in Uplands/Dredging/Sediment Handling & Processing

- Background Levels Prior to Work/Downwind Measurements in 15 Minute Intervals/Uplands Soil Areas Work Includes Monitoring on School Grounds

- Mercury Sample Collected/Analyzed If Action Level Exceeded After 4 Consecutive Readings
COMMUNITY CONSIDERATIONS – AIR MONITORING

Mercury Vapor Monitoring/Verification (Continued)

• If Lab Results Indicate Exceedance of Action Level Then Further Evaluation Using Mercury Vapor Analyzer Will be Used to Identify Sources

• Mitigation Measures Could Include
  ➢ Vapor Suppression Foaming Agents Similar to Those Used For Odor Control
  ➢ Modify Sediment Processing Equipment (e.g. Cover Openings to Prevent Emissions)
MONITORING REPORTING

- Dust/Mercury Vapor Measurements/Mercury Verification Sample Results Presented Graphically on Website for Public Access Within 24 Hours of Each Monitoring Day or 24 Hours After Receipt of Lab Data

- Noise/Odor Monitoring Results Posted to the Website for Public Access

- Water Quality Sampling Results Posted to the Website for Public Access Within 24 Hours After Receipt of Lab Data
PROXIMITY TO SCHOOL/RESIDENTS ALONG LAKESIDE AVENUE

• No Site-Related Cleanup Activity Will be Performed on the Actively Used Grounds of Lakeside Middle School (e.g. Athletic Fields)

• Fencing Between the Uplands and the School Will Have a Visual Screen

• No Walking Access on the Side of Lakeside Avenue Where Construction is Located

• New Crossing Areas to be Established and a Safe Walking Distance Will be Maintained Along Lakeside Avenue
PROXIMITY TO SCHOOL/RESIDENTS ALONG LAKESIDE AVENUE

- Flagmen/Truck Directors/Other Workers Will be Positioned at the Construction Gate Eliminating Opportunity for Non-work Personnel to Gain Site Access Through the Construction Entrance

- During School Opening/Closing, Transport of Materials/Other Construction Related Traffic Will be Suspended to Minimize Interference With School Related Traffic

- Interface With School Prior to Construction to Establish Point of Contact For Notification in the Unlikely Event of an Emergency Requiring Site Evacuation

- Fixed Air Monitoring Station Located on School Property and Field Technician Monitoring With Mercury Vapor Analyzer During Uplands Work
EPA OVERSIGHT OF CONSTRUCTION ACTIVITIES

- Provide Field Technical Oversight to Ensure Work Complies With Approved Work Plan

- Participation in Weekly Project Status Meetings

- EPA’s Community Involvement Coordinator and Project Manager Will Continue Weekly Presence in the Community During Construction to Answer Questions/Respond to Community Concerns

- Perform Field Inspections During Construction Activities

- Review Technical Deliverables Submitted/Monitoring Data Generated During Construction Activities
NEAR-TERM SCHEDULE

- April 2016: EPA Approval of Chemours Work Plan
- Spring/Summer 2016: Uplands Soil Areas Work
- Fall/Winter (mid-December): Area A/Island Area
- Potential Schedule Constraints Include: Permit Approvals
- 2017 - Acid Brook Delta
- 2018 - Restoration and Initiation of Long-term Monitoring
COMMUNITY ENGAGEMENT ACTIVITIES - DREDGING

- Community Update Targeting Residential Concerns About Soil Excavation/Dredging

- 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

- Newsletters/Email Updates

- Spring/Summer 2016: Target Time to Initiate Fieldwork
TAKE HOME MESSAGES - DREDGING PROJECT

- EPA/NJDEP Have Extensive Experience And Performed Many Environmental Clean-ups at Sites Close to Sensitive Populations, (e.g. School Age Children)

- No Site Related Clean-up Activity Will be Performed on The Actively Used Grounds of The School (e.g. Athletic Fields)

- Work Areas Secured/Access to the Construction Area Controlled

- Air/Noise/Dust/odors Will be Monitored During Construction And Traffic Will be Controlled With Measures in Place to Address Any Issues

- Active, On-going Community Engagement Prior to/During/Post Construction
CLOSING

• Questions??

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