



HUDSON TUNNEL PROJECT: WEEHAWKEN COMMUNITY MEETING January 18, 2018



Agenda



- Near Term Activity
- Hudson Tunnel Project
- Revisions to the Project to Address Community Concerns
- Description of Construction Activities in Hoboken/Weehawken
- Proposed Mitigation Measures to Reduce Impacts

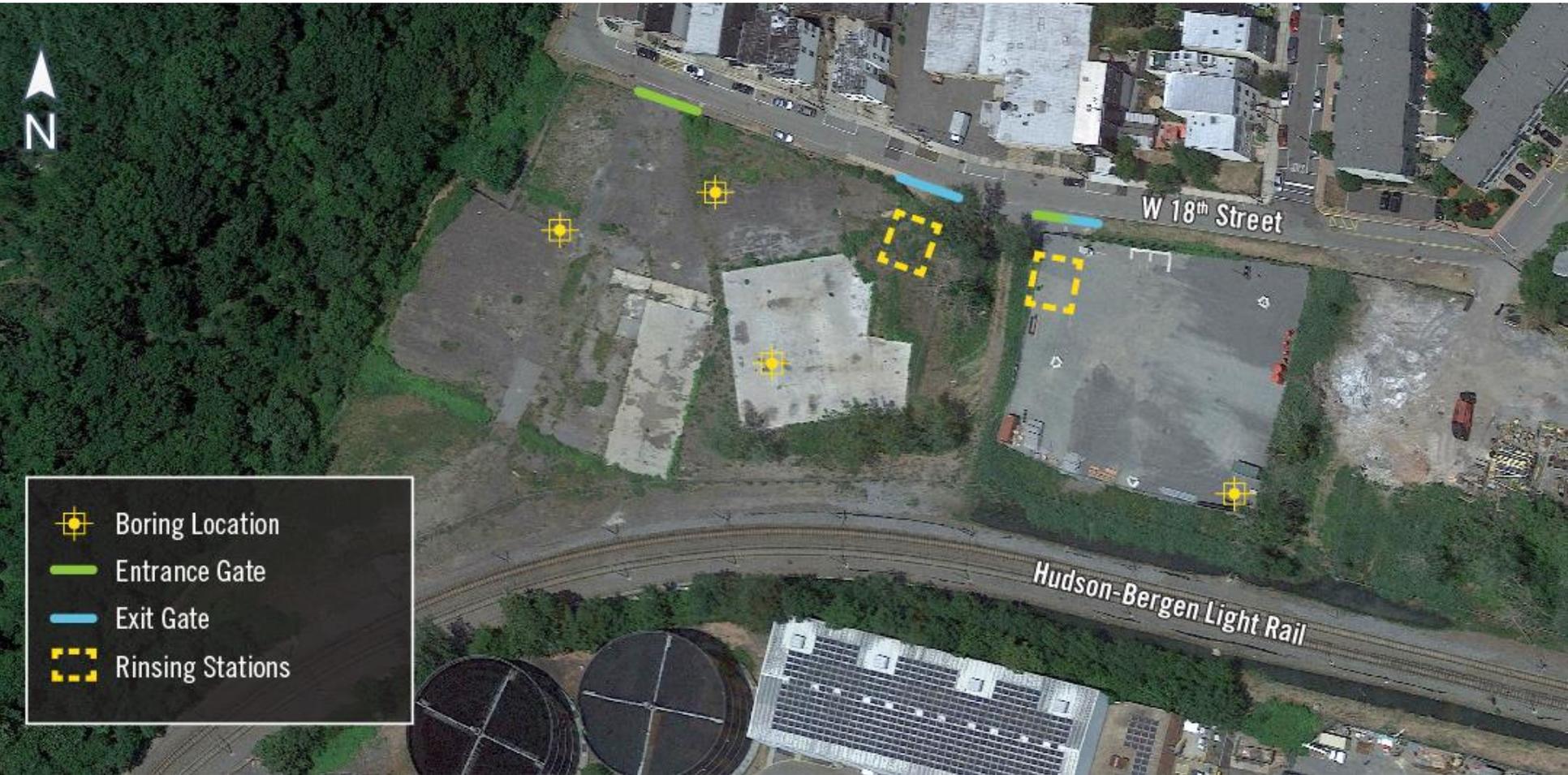
Next Steps: Geotechnical Borings (January-February 2018)



- To provide detailed information on specific soil conditions along the tunnel alignment on NJ TRANSIT site
- Approximately 10 people working 8 AM–4 PM, Monday-Friday, for 3 to 4 weeks
- Approximately 4 employee vehicles on site; vehicle rinsing stations will be used before leaving site
- Air quality monitoring before and during borings



Next Steps: Geotechnical Borings (January-February 2018)



-  Boring Location
-  Entrance Gate
-  Exit Gate
-  Rinsing Stations

Next Steps: Preliminary Environmental Remediation (Fall 2018)



- Site has Polychlorinated Biphenyl (PCB) contamination from fill brought to the site by former owners.
- NJ TRANSIT will excavate and remove contaminated soil in a safe manner.
- Soil to be transported in trucks that will be tarped to contain it.
- Portions of the site will be capped with clean fill following remediation.
- Work will occur from 7 AM – 4 PM for about six weeks.
- Up to 4 to 5 trucks per day (not every day) and 4 to 8 vacuum trucks per week for dewatering.
- Additional remediation will occur during Project construction.



Hudson Tunnel Project

Introduction: Need for the Project



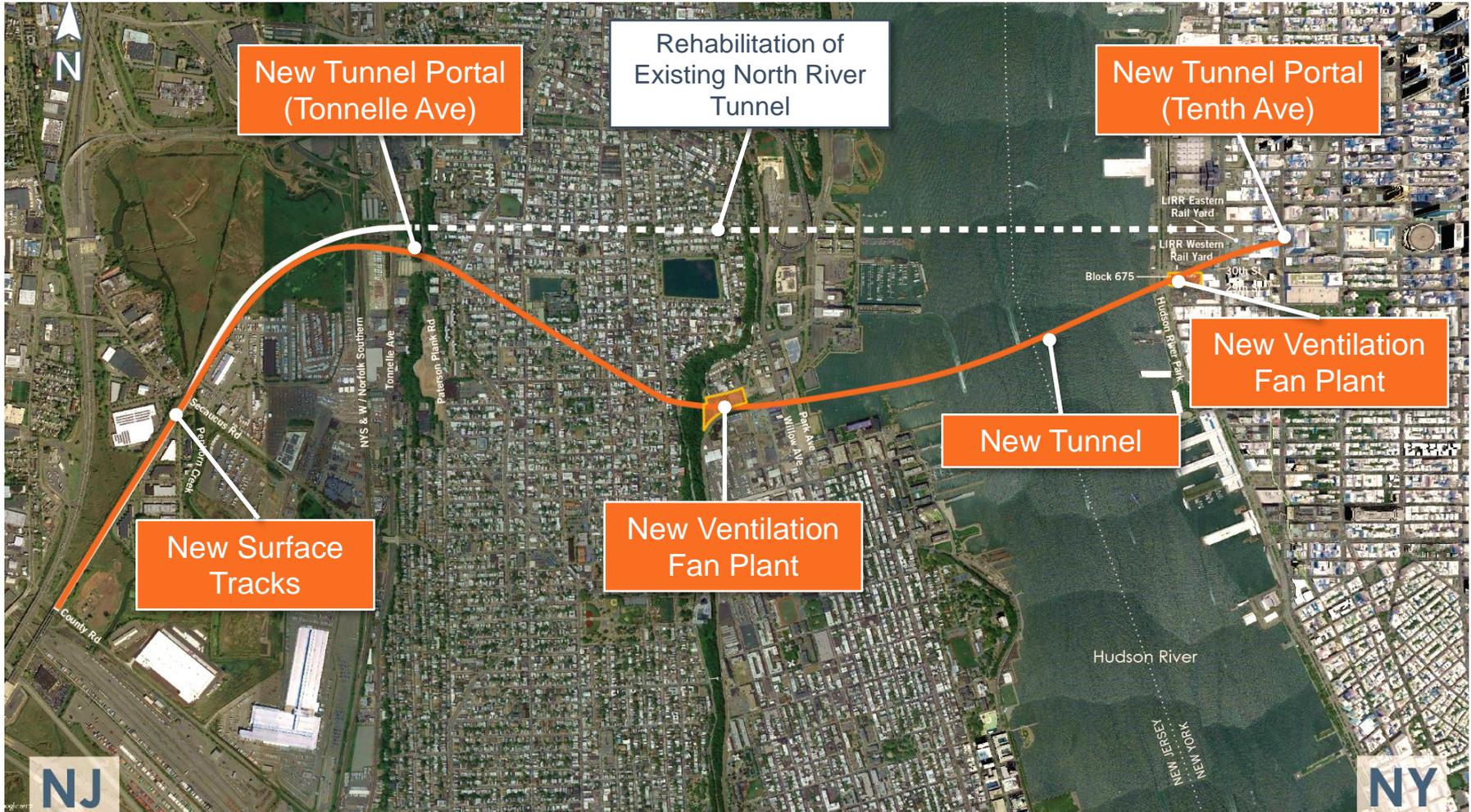
- Existing Amtrak / NJ TRANSIT rail tunnel beneath Hudson River must be closed for full reconstruction to repair damage from Superstorm Sandy
- Need for repair is urgent: storm damage continues to degrade tunnel
- Existing train service (450 trains per day) must be maintained
- New tunnel will provide train capacity during reconstruction of existing tunnel and ongoing stability and redundancy once both tunnels are operating



photos courtesy of Amtrak



Introduction: Proposed Hudson Tunnel Project



Revisions to the Project to Address Community Concerns

Revisions to Address Community Concerns: Major Issues Raised



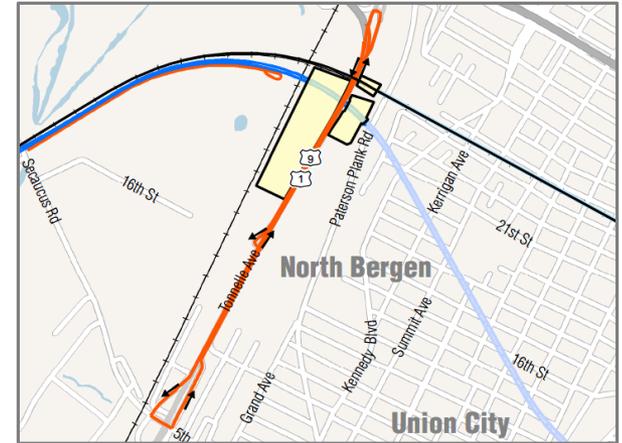
- Impacts of construction activity at Hoboken/Weehawken:
 - Truck volumes (DEIS described 16 trucks per hour for up to 7 years)
 - Noise
 - Dust and air pollution
 - Hazardous materials



Revisions to Address Community Concerns: Revised Staging Plan Adopted



- Weehawken residents and elected officials requested that tunnel construction activity be shifted to Tonnelle Avenue site in North Bergen



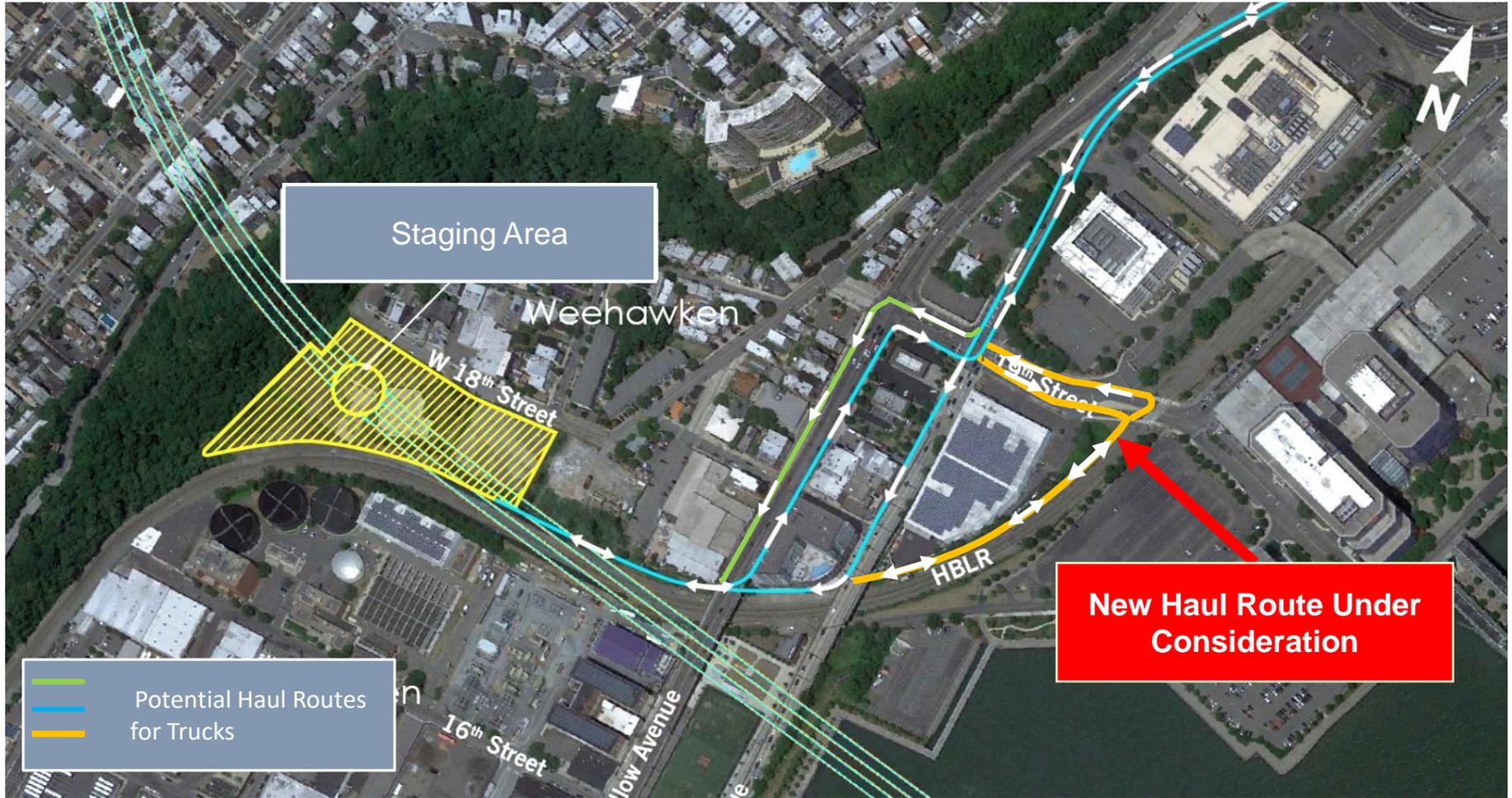
- **Revised staging plan adopted**

- Substantially reduces amount and duration of construction activity - most activity related to tunnel excavation will no longer occur at Hoboken/Weehawken
- Reduces peak truck volumes through Weehawken **by half**
 - **Previous plan:** estimated 16 trucks per hour
 - **Revised plan:** **cap of 8 trucks per hour** maximum for peak activities
 - Many stages of construction would have **lower truck volumes**

Revisions to Address Community Concerns: Revised Staging Plan

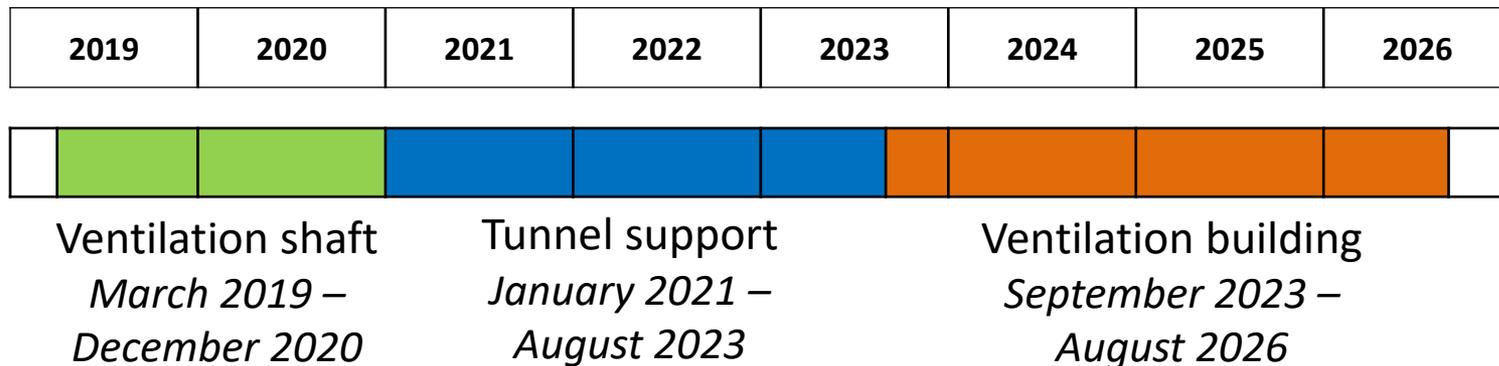


Revisions to Address Community Concerns: New Haul Route Being Evaluated



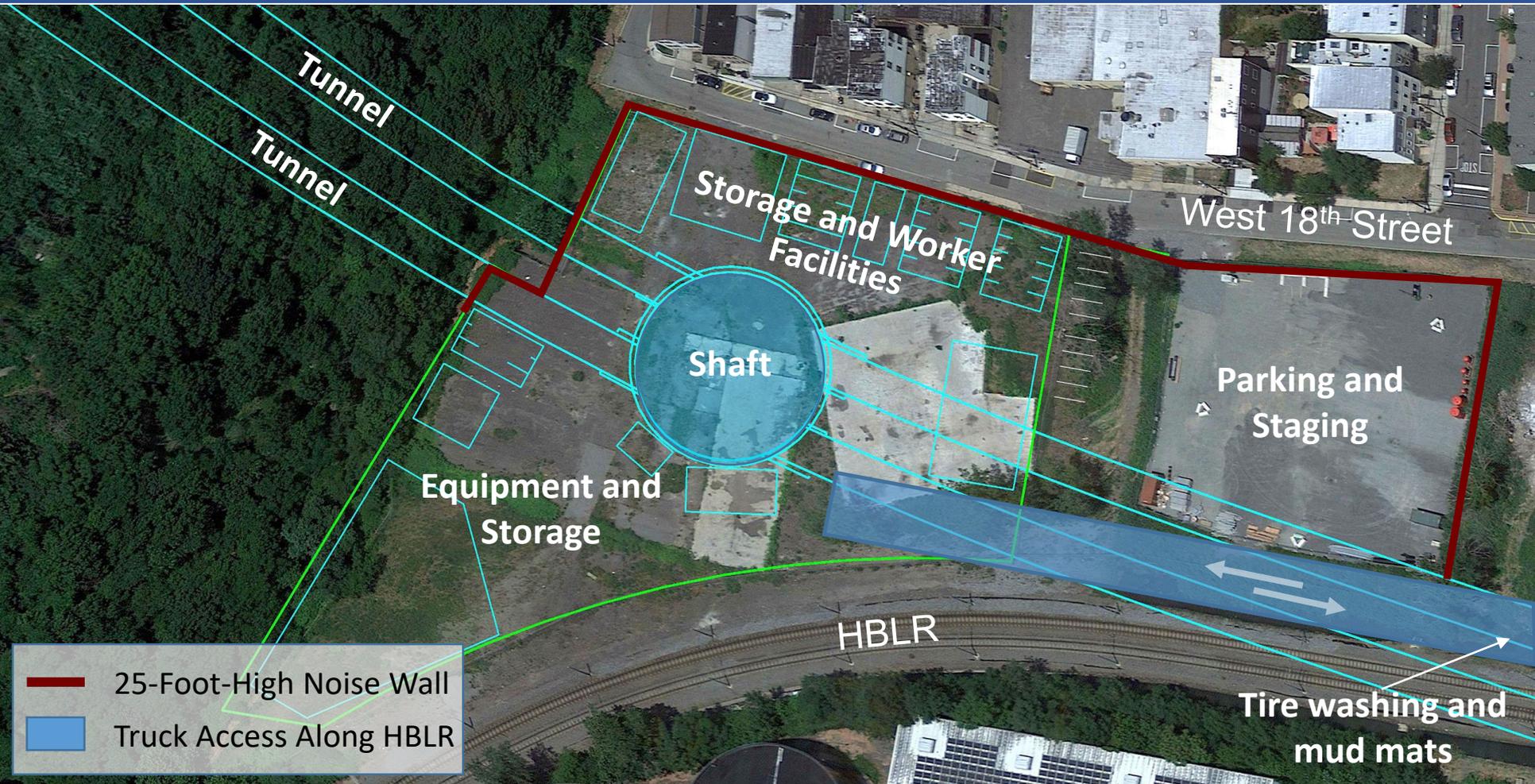
Description of Construction Activities in Hoboken/Weehawken

Construction Activities: Construction at Hoboken/Weehawken



- Three phases of activity:
 - Ventilation shaft construction – 100 feet deep from surface to tunnel depth
 - Tunnel excavation support – support for the staging that will occur at Tonnelle Avenue
 - Ventilation building construction

Construction Activities: Hoboken/Weehawken Site Layout



Construction Activities: Ventilation Shaft Slurry Wall Construction: 5 Months

2019	2020	2021	2022	2023	2024	2025	2026



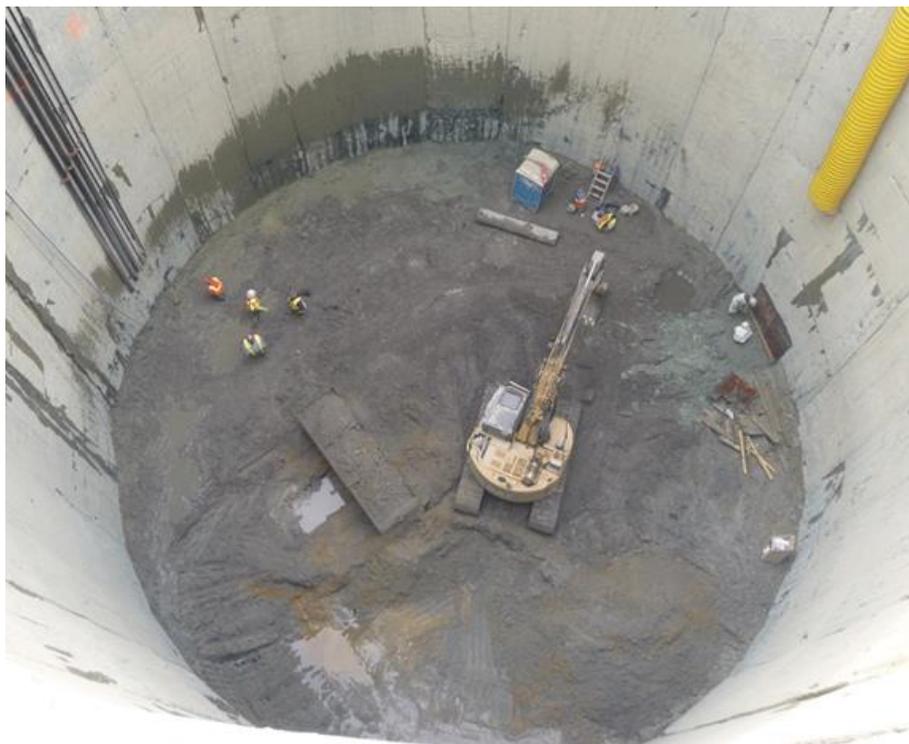
Excavate Trench
and Fill with Slurry



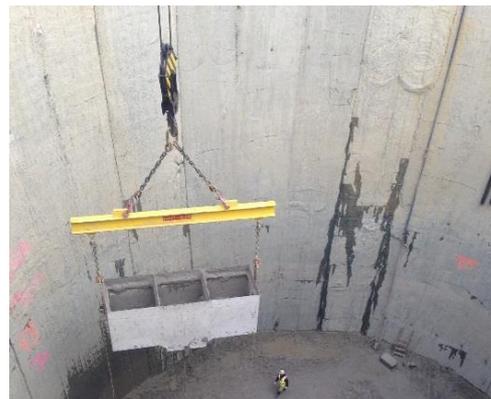
Insert Steel Reinforcing Cage
and Place Concrete

Construction Activities: Ventilation Shaft Shaft Excavation: 12 Months

2019	2020	2021	2022	2023	2024	2025	2026



Shaft Excavation



Shaft Excavation



Concrete Placed at Bottom of Excavated Shaft

Construction Activities: Tunnel Support

Access Point to Tunnel: 32 Months

2019	2020	2021	2022	2023	2024	2025	2026



Tunnel Boring Machine in Tunnel at Bottom of Shaft



Supplies Delivered into Tunnel at Shaft



Construction Activities: Ventilation Building

Building Construction: 36 Months

2019	2020	2021	2022	2023	2024	2025	2026



1. Below-Grade Structure and Final Shaft Lining: 10 Months



2. Above-Grade Structure: 11 Months



3. Building Fit-Out: 15 Months

Construction Activities: Activity at Hoboken/Weehawken Site



- No trucking to and from the Hoboken/Weehawken site after 10 PM.
- Construction on weekdays, 7 AM to 11 PM.
- Overnight activity at site may be required on occasion to support tunnel activity.

Proposed Mitigation Measures to Reduce Impacts

Mitigation Measures to Reduce Impacts: Active and Responsive Community Engagement



- 24-hour hotline for emergencies, construction complaints
- Neighborhood Project outreach office
- Project liaison always available to address concerns and work with community to accommodate special events where possible
- Regular meetings and coordination to identify concerns and provide information about upcoming construction
- Email/text notification for construction activities and meetings



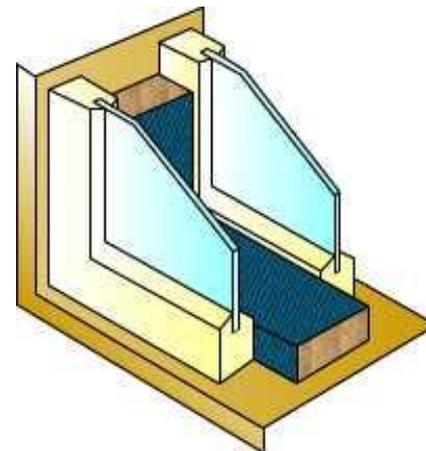
Mitigation Measures to Reduce Impacts: 25-Foot-High Noise Wall during Construction



Mitigation Measures to Reduce Impacts: Sound-Reducing Windows



- Sound-reducing windows for residences across from site and along truck routes
- Sound-reducing windows lower audible noise noticeably – by up to half (depending on building construction)
- Improve heat and air conditioning efficiency
- Permanent improvement for residences



Mitigation Measures to Reduce Impacts: Other Mitigation



Noise reduction measures including use of pile drilling instead of pile driving where possible



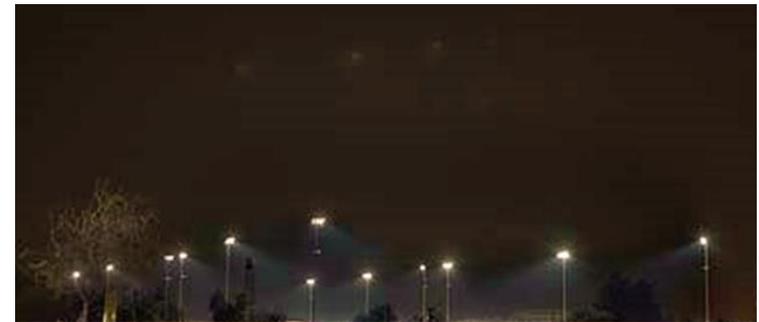
Hazardous materials remediation with Health and Safety Plan and air monitoring



Vibration monitoring program



Multi-approach dust control plan



Downward-directed, shielded site lighting no higher than noise wall

Summary



- Adopted revised staging plan that substantially reduces construction activity at Hoboken/Weehawken site
- Cut peak Project trucking in Hoboken/Weehawken in half – commitment to cap of 8 trucks per hour into and out of the site; truck volumes during many activities would be lower
- Additional haul route along HBLR being evaluated
- Commitment to numerous mitigation measures to reduce construction impact

Thank you.

Questions?