

Chapter 26:

Glossary and Acronyms

This chapter provides all of the abbreviations and acronyms used in this document. This chapter also includes glossary entries, which explain terminology used throughout the EIS and Draft Section 4(f) Evaluation. Entries are listed alphabetically.

A

ACHP - Advisory Council on Historic Preservation

AC - alternating current

ACM - asbestos-containing material

Action Alternative - An alternative that must be rigorously explored and objectively evaluated under consideration in an Environmental Impact Statement (EIS). An alternative that proposes some Federal action in contrast to the No Action Alternative. See also *No Action Alternative*.

ACS - American Community Survey (US Census Bureau)

ADA - Americans with Disabilities Act of 1990; Federal regulation establishing legal requirements for accessibility for persons with disabilities. Codified at 42 USC 12101 et seq.

ADF - Air Discharge Facilities Index

ACFM - actual cubic feet per minute

ADP - Amended Drainage Plan

Adverse Effect - (1) National Environmental Policy Act of 1969 (NEPA)—an effect that may cause unfavorable or undesirable outcomes to the natural or human environment. (2) National Historic Preservation Act of 1966 (NHPA)—the diminishment of a historic property's integrity, with respect to its location, design, setting, materials, workmanship, feeling, or association. The term is applied by federal agency officials, in consultation with the State (or Tribal) Historic Preservation Office, as part of the Section 106 process. See also *Historic Property*.

A/E - Architect/Engineer of Record; The professional engineer or architect licensed in the State in good standing who is designated by the owner, acting reasonably, as the engineer responsible for the preparation, signing, dating, sealing and issuing of the engineering documents relating to all of the project work based on the owner's determined project delivery method.

AERMOD - American Meteorological Society/Environmental Protection Agency Regulated Model

Affected Environment - The existing environment, resource conditions, and trends that may be affected by the Alternatives of the Proposed Action. Can include the physical, biological, social, and economic setting potentially affected by alternatives under consideration.

Affected Environment Existing Conditions - represents current or Existing Conditions as of 2019

Affected Environment Future Conditions - represents the addition of ongoing and reasonably anticipated to occur private development, but not transportation projects to Affected Environment Existing Conditions

AHV - after hours variance

Amtrak - National Railroad Passenger Corporation; joint Project Sponsor

ANSI - American National Standards Institute, Inc. (A private, non-profit organization that administers and coordinates the U.S. voluntary standards and conformity assessment system.)

Anthropogenic - Relating to, or resulting from the influence of, human beings on nature.

APE - Area of Potential Effect(s) for historic resources; the geographic area or areas within which a project may directly or indirectly cause alterations in the character or use of historic properties, if such properties exist (i.e., the Study Area)

APTA - American Public Transit Association (A nonprofit group of approximately 1,500 public and private sector member organizations that promotes and advocates for the interests of the public transportation industry in the United States.)

Aquifer - Subsurface geologic unit (rock or sediment) that contains and transmits groundwater.

Archaeological Site - A place (or group of physical sites) in which physical remains of past human activity that are at least 50 years old are preserved, and which has been, or may be, investigated using the discipline of archaeology and represents a part of the archaeological record. The archaeological record consists of artifacts, features, and ecological evidence along with their preserved positions in or on the earth.

ASCE - American Society of Civil Engineers (ASCE represents a profession that plans, designs, constructs, and operates the built environment, while protecting and restoring the natural environment. ASCE is an authoritative source for codes and standards that protect the public.)

ASTM - American Society for Testing and Materials

ATR - automated traffic recorder

AVE - Area of Visual Effect

A-Weighted Sound Level - A measure of sound intensity, expressed in decibel notation as dBA, which is weighted to approximate the response of the human ear; describes the way sound will affect people near a noise source.

B

BAT - best available technology

BCP - Brownfield Cleanup Program

Beneficial effect - Potential to cause positive outcomes to the natural or human environment.

Best Management Practices (BMPs) - Methods designed to minimize adverse effects to the environment. Examples of BMPs include practices for erosion and sedimentation controls, watering for dust control, perimeter silt fences, rice straw bales, and sediment basins.

BFE - Base Flood Elevation

BOD - Basis of Design Report; A report developed by the A/E based on owner's project requirements to describe the Technical Approach planned for the project, as well as the PDC to be used.

BPIP - Building Profile Input Program

BPIPRM - Building Profile Input Program for the PRIME model

BTU - British thermal unit

Bulb-out - A sidewalk extension, typically into the parking lane, used to narrow the roadway and provide additional pedestrian space at key locations; they can be used at corners and at mid-block locations.

C

CAA - Clean Air Act of 1970 (Federal); The Federal law that defines the United States Environmental Protection Agency's (EPA's) responsibilities for protecting and improving the nation's air quality and the stratospheric ozone layer. The CAA protects the public from exposure to airborne contaminants that are known to be hazardous to human health and requires that the EPA rate Environmental Impact Statements (EISs). Codified at 42 USC 7401 et seq.

CAPCOA - California Air Pollution Control Officers Association

Carbon Dioxide (CO₂) - A colorless, odorless gas that occurs naturally in the atmosphere, produced by burning carbon and organic compounds, and by respiration. Fossil fuel combustion emits significant quantities of CO₂.

Carbon Monoxide (CO) - A colorless, odorless, toxic, and flammable gas formed by the incomplete combustion of carbon. CO gas generated in the urban environment is primarily due to the incomplete combustion of fossil fuels in motor vehicles.

CBD - central business district

CBS - Chemical Bulk Storage

Census Block - A subdivision of a census block group (or, prior to 2000, a block numbering area); a block is the smallest geographic unit for which the U.S. Census Bureau tabulates 100-percent data (data collected from all houses, rather than sample houses). In urban areas, many census blocks correspond to individual city blocks bounded by streets.

CEPP - Construction Environmental Protection Plan

CEQ - Council on Environmental Quality (Federal)

CEQR - New York City Environmental Quality Review

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

CERCLIS - Comprehensive Environmental Response, Compensation, and Liability Information System

CFR - Code of Federal Regulations

CH₄ - methane

CHASP - Construction Health and Safety Plan

CMP - New York State Coastal Management Program

CLCPA - Climate Leadership and Community Protection Act

CO - carbon monoxide

CO₂ - carbon dioxide

CO₂e - carbon dioxide equivalent

Con Edison - Consolidated Edison; a New York power utility

Consulting Party - Parties that have a consultative role in the Section 106 process. These may include the State Historic Preservation Office (SHPO); Indian tribes and Native Hawaiian

organizations; representatives of local governments; applicants for Federal assistance, permits, licenses, and other approvals; and individuals and organizations with a demonstrated interest in the undertaking.

Cooperating Agency - Any agency invited by the lead Federal agency that has agreed to participate in the National Environmental Policy Act of 1969 (NEPA) process, and has legal jurisdiction over, or technical expertise regarding, environmental impacts associated with a proposed action.

COVID-19 - coronavirus disease 2019 (public health emergency)

CP-29 - Commissioner Policy 29 (New York State); The New York State Department of Environmental Conservation (NYSDEC) policy that provides guidance for incorporating environmental justice concerns into NYSDEC environmental permit review process and the DEC application of the State Environmental Quality Review Act (SEQRA).

CPC - New York City Planning Commission

CREC - Controlled Recognized Environmental Condition(s)

Criteria Pollutants - Pollutants for which Federal and state air quality standards have been established: carbon monoxide (CO), sulfur oxides (SO_x), nitrogen oxides (NO_x), ozone (O₃), particulate matter with a diameter of 10 micrometer or less (PM₁₀), particulate matter with a diameter of 2.5 micrometer or less (PM_{2.5}), and lead (Pb).

CRIS - Cultural Resource Information System (New York State)

Critical Habitat - Designated areas that provide suitable habitat for Federally listed threatened or endangered species, and in which are the geographical locations and physical features essential to the conservation of a particular species.

CRRA - Community Risk and Resiliency Act (New York State)

CSD - Community School District

CSO - combined sewer outfalls

Cultural Resources - Resources related to the tangible and intangible aspects of cultural systems, living and dead, which are valued by a given culture or contain information about the culture. Cultural resources include, but are not limited to, sites, structures, buildings, districts, and objects associated with or representative of people, cultures, and human activities and events.

Cumulative Impact - (1) Council on Environmental Quality (CEQ)—the result of two or more individual impacts that, when considered together, are considerable or that compound or increase other environmental impacts; (2) National Environmental Policy Act of 1969 (NEPA)—an impact on the environment that results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions; (3) National Historic Preservation Act of 1966 (NHPA)—the impact on the environment that results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions.

CWA - Clean Water Act of 1972 (Federal); The primary Federal law protecting the quality of the nation's surface waters, including wetlands. The CWA regulates discharges and spills of pollutants, including hazardous materials, to surface waters and groundwater. Codified at 33 USC 1251 et seq.

CZMA - Coastal Zone Management Act of 1972 (Federal)

D

dB - decibel; A logarithmic measurement of noise intensity.

dBA - "A"-weighted sound level (see definition above)

DC - direct current

DEIS - Draft Environmental Impact Statement

De Minimis - A Latin term meaning pertaining to minimal things, too trivial or minor to merit consideration.

De Minimis Impact –When conducting Section 4(f) analysis of historic sites, *de minimis* impact means that FRA has determined, in accordance with 36 CFR part 800, that no historic property is affected by the project or that the project will have "no adverse effect" on the historic site in question. For parks, recreation areas, and wildlife and waterfowl refuges, a *de minimis* impact is one that will not adversely affect the features, attributes, or activities qualifying the property for protection under Section 4(f). For air quality, New York City has set *de minimis* criteria for certain air pollutants, if a project results in emissions below these limits, the project would have a *de minimis* impact on air quality, one that will have no adverse impact.

DFE - Design Flood Elevation

DHS - U.S. Department of Homeland Security

Direct Effect - A consequence to the environment caused by a proposed project that occurs at the same time and place.

DM-30 - Dual-Mode diesel-electric engines

DOE - Department of Education

DOI - U.S. Department of the Interior

DSNY - New York City Department of Sanitation

DU - dwelling units

E

E1UBL - subtidal estuarine wetland habitat with an unconsolidated bottom

EA - Environmental Assessment

(E) Designation (noise) - Noise (E) Designations, as listed in Appendix C of the New York City Zoning Resolution, are placed on zoning lots in areas with high ambient noise levels when they are rezoned by NYCDCP to allow a noise-sensitive use to be built on those sites. A Noise (E) Designation specifies a minimum level of facade noise attenuation as well as the provision of an alternate means of ventilation to allow for the maintenance of a closed-window condition.

EFH - essential fish habitat; Includes all types of aquatic habitat—wetlands, coral reefs, seagrasses, rivers—where fish spawn, breed, feed, or grow to maturity.

EIA - Energy Information Administration (Federal)

EIS - Environmental Impact Statement; Documentation required by the National Environmental Policy Act of 1969 (NEPA) for certain actions "significantly affecting the quality of the human environment." An EIS is a decision-making tool that presents detailed analysis of a proposed action and alternatives to the proposed action. The EIS presents the project's potential effects—

both beneficial and adverse—and any mitigation measures to reduce adverse effects. See also National Environmental Policy Act of 1969.

Endangered Species - Any species listed under the Endangered Species Act of 1973 (ESA) as being in danger of or threatened with extinction throughout all or most of its range. See Endangered Species Act of 1973.

Endangered Species Act of 1973 (ESA) - The ESA and subsequent amendments (Sections 7, 9, and 10) provide guidance for conserving Federally listed species and the ecosystems upon which they depend. Codified at 16 USC 1531 et seq.

Environmental Justice - The fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

Environmental Site Assessment - An analysis that identifies potential or existing environmental contamination liabilities. Phase I (ESA, see below) and Phase II (ESI, see below) investigations assess whether identified historic on-site or off-site hazardous uses have affected the soil or groundwater conditions beneath a property, as necessary.

EMS - Emergency Medical Services

EO - Executive Order

ERNS - Emergency Response Notification System

ESA - Phase I Environmental Site Assessment

ESB - Emergency Services Building

ESD - Empire State Development Corporation (a New York State Agency)

ESI - Phase II Environmental Site Investigation

E

FacDB - Facilities Database (New York City Department of City Planning)

FAR - floor area ratio

FDNY - Fire Department of the City New York City

FEIS - Final Environmental Impact Statement

FEMA - Federal Emergency Management Agency

FGEIS - Final Generic Environmental Impact Statement

FHWA - Federal Highway Administration (USDOT)

FIRMs - Flood Insurance Rate Maps (Federal FEMA)

Floodplain - An area of land adjacent to a stream or river which stretches from the banks of its channel to the base of the enclosing valley walls, and which experiences flooding during periods of high discharge.

100-year floodplain - Area in which a flood event has a 1% probability of occurring in any given year

500-year floodplain - Area in which a flood event has a 0.2% probability of occurring in any given year

FOIA - Freedom of Information Act (Federal)

FOIL - Freedom of Information Law (New York State)

FONSI - Finding of No Significant Impact (Federal)

FRA - Federal Railroad Administration (USDOT); Lead Federal Agency

FTA - Federal Transit Administration (USDOT)

G

General Conformity - The requirement that Federal, state, tribal, and local governments in air quality nonattainment or maintenance areas ensure that Federal actions conform to the initiatives established in the applicable state implementation plan or tribal implementation plan.

Greenhouse Gases (GHGs) - A class of air pollutants believed to contribute to the greenhouse global warming effect, including nitrogen oxides (NOx), hydrocarbons (HC), and carbon dioxide (CO₂).

GIS - Geographic Information Systems

GREET - Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation

gpd - gallons per day

gsf - gross square feet

GWP - global warming potential

H

HARBS/EA - *Historic Architectural Resources Background Study and Effects Assessment*

Hazardous Materials - Any material that, because of quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety, or the environment, if released.

Hazardous Waste - A hazardous material that is no longer of use and will be disposed of. Hazardous waste is regulated by EPA under the Resource Conservation and Recovery Act of 1976 (RCRA). See also *RCRA*.

HC - hydrocarbon; Various organic compounds, including methane, emitted principally from the storage, handling, and combustion of fossil fuels.

HEP - New York-New Jersey Harbor Estuary Program

HFC - hydrofluorocarbon

High Line - linear park on historic elevated structure

Historic Property - Any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register of Historic Places (NRHP). The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria. See also National Register of Historic Places and Traditional Cultural Properties.

HHS - U.S. Department of Health and Human Services (Federal)

hp - horsepower

HRE - Hudson Raritan Estuary

HREC - Historic Recognized Environmental Conditions

HRPA - Hudson River Park Act

HRPT - Hudson River Park Trust

HUD - U.S. Department of Housing and Urban Development (Federal)

Hudson Yards - Metropolitan Transportation Authority (MTA) Long Island Rail Road (LIRR) John D. Caemmerer Yard

HVAC - heating, ventilating, and air condition

Hz - Hertz

I

Impact - A change in the condition or function of an environmental resource or environmental value resulting from human activity. Synonym to Effect.

Independent Third Party Consultant - Pursuant to 40 CFR 1506.5(c), FRA selected AKRF, Inc. to assist FRA in conducting the environmental review and preparing the environmental documentation related to the Applicants' Proposal (the Proposed Action).

Indirect Impact - A reasonably foreseeable indirect consequence to the environment caused by a proposed project that would occur either in the future or near to, but not the same location as, the direct impacts associated with the project. Synonym to Secondary Impact.

Induced Growth - An indirect impact of a project triggering community growth (increases in population, development, etc.) that is influenced and stimulated by the Proposed Action.

IPAC - Information, Planning, and Conservation System (Federal)

IPCC - Intergovernmental Panel on Climate Change (United Nations)

ISR - In-Stack Ratio

J, K

KWH - kilowatt hours

L

L_{dn} - Day-night average sound level; the average noise level over a 24-hour period.

L_{eq} , dBA - Equivalent Sound Level; a method to describe sound levels that vary over time, resulting in a decibel value that considers the total sound energy over a given period of time.

$Leq(h)$, dBA - Equivalent or average noise level for the noisiest hour, expressed in A-weighted decibels.

Lead (Pb) - A stable element that can have toxic effects and that persists and accumulates in the environment, humans, or animals.

Lead Agency - The Federal agency that has the principal responsibility for carrying out or approving a project or action and is responsible for preparing environmental review documents in compliance with the National Environmental Policy Act of 1969 (NEPA) and the National Historic Preservation Act of 1966 (NHPA).

LBP - lead-based paint

LEED - Leadership in Energy and Environmental Design

LEP - Limited English Proficiency

LIRR - Long Island Rail Road (New York State - MTA)

LGBT - lesbian, gay, bisexual, and transgender

LOR - Letter of Resolution

LOS - level of service; A rating using qualitative measures to characterize operational conditions within a traffic stream and their perception by motorists and passengers.

LPC - New York City Landmarks Preservation Commission

LTANKS - Database of leaking underground storage tanks

LTCP - Long Term Control Plan

LWRP - Local Waterfront Revitalization Program

LZ - littoral zone

M

MBTA - Migratory Bird Treaty Act

Mesoscale - Describes an air quality analysis at the regional level.

mgd - million gallons per day

Microscale - Describes an air quality analysis for a localized area such as an intersection.

Minimization Measures - Measures developed during the planning and Project Development phase of a project to reduce proposed impacts to a resource. Minimization measures could include construction commitments, implementing control measures to limit exposure paths of contaminated materials, dust control measures during construction, etc.

Mitigation - An action or measure undertaken to minimize, reduce, eliminate, or avoid adverse impacts of a project, action, or activity.

MHHW - Mean Higher High Water

MLLW - Mean Lower Low Water

MLW - mean low water

MOA - Memorandum of Agreement

MOE - margin of error

MOSF - Major Oil Storage Facilities

MOVES - Motor Vehicle Emission Simulator

mph - miles per hour

MPO - Metropolitan Planning Organization

MPT - Maintenance and Protection of Traffic

MS4 - Municipal Separate Storm Sewer Systems

MTA - Metropolitan Transportation Authority (New York State)

MTS - marine transfer station

N

NAA - non-attainment areas

NAAQS - National Ambient Air Quality Standards; Federal standards stipulating the allowable ambient concentrations of specific criteria pollutants.

NAVD88 - North American Vertical Datum of 1988

NEC - Northeast Corridor (railroad line from Boston to Washington D.C.)

NEPA - National Historic Preservation Act of 1966; Federal law that establishes national policies and goals for the protection of the environment and requires Federal agencies to consider the environmental impacts of major Federal projects or decisions; share information with the public; identify and assess reasonable alternatives; identify appropriate measures to mitigate potential impacts; and coordinate efforts with other planning and environmental reviews taking place. Codified at 42 USC 4331 et seq.

NESHAPS - National Emissions Standards for Hazardous Air Pollutants

NFPA - National Fire Protection Association

NFPA 13 - Standard for the Installation of Sprinkler Systems

NFPA 14 - Standard for the Installation of Standpipe and Hose Systems

NFPA 110 - Standard for Emergency and Standby Power Systems

NFPA 130 - Standard for Fixed Guideway Transit and Passenger Rail Systems

NFPA 70 - National Electrical Code

NFPA 72 - National Fire Alarm and Signaling Code

NFRAP - No Further Remedial Action Planned

NGVD29 - National Geodetic Vertical Datum of 1929

NHL - National Historic Landmark

NHPA - National Historic Preservation Act of 1966; Federal law intended to preserve the nation's historic properties. The act created the National Register of Historic Places (NHRP), the list of National Historic Landmarks (NHL), and the State Historic Preservation Offices (SHPO). Codified at 54 USC 300101 et seq. See also Section 106 of the NHPA, National Register of Historic Places, and National Historic Landmarks.

NMFS - National Marine Fisheries Service

N₂O - nitrous oxide

NO - nitric oxide

NO₂ - nitrogen dioxide

NO_x (Nitrogen Oxides) - A class of pollutant compounds that include nitrogen dioxide (NO₂) and nitric oxide (NO), which are emitted by the combustion of fossil fuels, including motor vehicles. See *Criteria Pollutants*.

No Action Alternative - An alternative under which no action would be taken (for example, the Project would not be built). Evaluation of a No Action Alternative is required under NEPA, as an example of a reasonable alternative outside the jurisdiction of the lead agency. This analysis provides a benchmark, enabling decision makers to compare the magnitude of environmental effects of the Proposed Action and any other alternatives.

NOAA - National Oceanic and Atmospheric Administration (Federal)

No Action Alternative - Project alternative representing the decision not to take any action to address the Project purpose and need

No Action Alternative Conditions - includes Affected Environment Future Conditions adding planned transportation projects as of 2030

NOI - Notice of Intent; Formal notice published in the Federal Register by the Federal lead agency stating that an EIS will be prepared for a proposed project or action.

NORAC- Northeast Operating Rules Advisory Committee

NPCC - New York City Panel on Climate Change

NPL - National Priority List (Superfund List); A Federal list of sites that have been identified as posing an immediate public health hazard and where an immediate response is necessary.

NR or NRHP - National Register of Historic Places; Official list of the Nation's historic places worthy of preservation, maintained and approved by the National Park Service (NPS). Codified at 54 USC 302101 et seq. For a property to be eligible for listing in the NRHP, it must meet the NPS National Register Criteria for Evaluation. See also *Historic Property*.

NRCC - Northeast Regional Climate Center

NRCS - Natural Resources Conservation Service (Federal - U.S. Department of Agriculture)

NRT - North River Tunnel; New York Improvements and Tunnel Extension of the Pennsylvania Railroad

NWI - National Wetland Inventory

NYCACS - New York City Administration for Children's Services'

NYCEDC - New York City Economic Development Corporation

NYC Parks - New York City Department of Parks and Recreation

NYCDCP - New York City Department of City Planning

NYCDDC - New York City Department of Design and Construction

NYCDEP - New York City Department of Environmental Protection

NYCDOB - New York City Department of Buildings

NYCDOT - New York City Department of Transportation

NYCHA - New York City Housing Authority

NYCL - New York City Landmark

NYCNCC - New York City Noise Control Code

NYCOER - New York City Office of Environmental Remediation

NYCT - New York City Transit (New York State - MTA)

NYNHP - New York Natural Heritage Program

NYMA - New York Metropolitan Area

NYMTC - New York Metropolitan Transportation Council

NYPD - New York Police Department

NYPL - New York Public Library

NYSDEC - New York State Department of Environmental Conservation

NYSDOS - New York State Department of State

NYSDOT - New York State Department of Transportation

NYSERDA - New York State Energy Research and Development Authority

NYSHPO - New York State Historic Preservation Office

NYSM - New York State Museum

O

O₃ (Ozone) - A photochemical oxidant that is a major cause of lung and eye irritation in urban environments.

O&M - operation and maintenance

OCMC - Office of Construction Mitigation and Coordination

OneNYC - *One New York: The Plan for a Strong and Just City*; a comprehensive plan developed by the New York City Mayor's Office of Long Term Planning and Sustainability

Operational Conditions - No Action Alternative and Proposed Action in 2030

OPRHP - New York State Office of Parks, Recreation, and Historic Preservation

OSHA - Occupational Safety and Health Administration (Federal - U.S. Department of Labor)

OPR - Owner's Project Requirements; A document that establishes the goals for the project. The OPR is considered a "living" document during the design phase of the project, and as such is subject to change as the design progresses.

P

PA (Programmatic Agreement) - An agreement between agencies that specifies the terms of compliance with one or more Federal laws. A project-specific PA describes the actions that will be taken by the parties to meet their environmental compliance responsibilities for a specific project. A procedural PA establishes a process through which the parties will meet their compliance responsibilities for an agency program, a category of projects, or a particular type of resource.

PABT - Port Authority Bus Terminal

PAH - polycyclic aromatic hydrocarbons

PANYNJ - Port Authority of New York and New Jersey

Participating Agency - Federal, state, or local agencies or Federally recognized tribal governmental organizations that is invited by the lead agency to participate in the environmental review process for a project with an interest in the Project.

Particulate Pollution - Air pollution such as dust, soot, and smoke that is irritating but usually not poisonous. Particulate pollution can also include bits of highly toxic solid or liquid substances. Of particular concern are particulate matter smaller than, or equal to, 10 micrometers (PM₁₀) or 2.5 micrometers (PM_{2.5}) in size. See PM, PM₁₀, and PM_{2.5}.

PATH - Port Authority Trans-Hudson

PBS - Petroleum Bulk Storage

PCBs (polychlorinated biphenyls) - Chemicals used in electrical transformers, hydraulic equipment, capacitors, and similar equipment.

PCE - Passenger Car Equivalent

Peak Construction Conditions - No Action Alternative and Proposed Action

PFC - perfluorocarbon

PlaNYC - *PlaNYC: A Greener, Greater New York*; plan of sustainability and resiliency initiatives by the New York City Mayor's Office of Long Term Planning and Sustainability.

PM - particulate matter

PM₁₀ - particles with an aerodynamic diameter of less than or equal to 10 micrometers

PM_{2.5} - particles with an aerodynamic diameter of less than or equal to 2.5 micrometers

Point Source Pollution - Pollution that can be traced to a single source (for example, a smokestack at a factory).

POPS - publicly owned private space

ppb - parts per billion

ppm - parts per million

Preferred Alternative - Alternative identified as the Build Alternative recommended for advancement by the lead agency or project proponent (the applicant's preferred alternative); Proposed Action.

Project Sponsor - The entity that will advance the Project through final design and construction, including compliance with mitigation measures. WRY Tenant LLC and Amtrak are partnering in a joint venture and are collectively identified as the Project Sponsor in this EIS.

PS/IS - elementary/intermediate public school

PVMRM - Plume Volume No Further Remedial Action Planned Molar Ratio Method

Q, R

RCRA - Resource Conservation and Recovery Act of 1976 (Federal); Federal law that creates the framework for the proper management of hazardous and non-hazardous solid waste. The law describes the waste management program mandated by Congress that gave the United States Environmental Protection Agency (EPA) authority to develop the RCRA program. Codified at 42 USC 6901 et seq.

RAP - Remedial Action Plan

RD - Restrictive Declaration

REC - Recognized Environmental Condition(s)

RFP - request for proposals

RGGI - Regional Greenhouse Gas Initiative

rms - root mean square

ROD - Record of Decision; The final step in the EIS process under NEPA. The ROD explains the agency's decision, describes the alternatives the agency considered, and discusses the agency's plans for mitigation and monitoring, if necessary.

ROW (right-of-way) - legal right of passage over a defined area of real property. In transit usage, the corridor along a roadway or railway that is controlled by a transit or transportation agency or authority.

RRIF - Railroad Rehabilitation and Improvement Financing

RSCO - Remedial Soil Cleanup Objectives

RWCDS - Reasonable Worst-Case Development Scenario

Runoff - The draining away of water and substances carried in it from the surface of an area of land, a building, or structure.

S

SBS - Select Bus Service

SCA - New York City School Construction Authority

SCO - Soil Cleanup Objectives

Scoping - A process used under NEPA to determine the range of issues to be addressed and for identifying the significant issues related to the proposed action or project to be addressed in an EIS.

SEA - supplemental environmental assessment

Section 4(f) of the United States Department of Transportation Act of 1966 - Legislation codified at 23 USC 138 and 49 USC 303 that governs the use of land from publicly owned parks, recreation areas, and wildlife and waterfowl refuges and publicly or privately owned significant historic sites that may be affected by projects approved or funded by USDOT. Section 4(f) addresses the potential for conflicts between transportation needs and the protection of land for recreational use and resource conservation by providing protection for publicly owned parkland, recreation areas, and historic sites from use. Specifically, the provisions prohibit the Secretary of Transportation from approving any program or project that would require the use of any publicly owned land from a public park, recreation area, wildlife or waterfowl refuge, or land of an historic site of national significance as determined by the Official with Jurisdiction over these lands unless there are no feasible and prudent alternatives to the use of these lands.

Section 106 of the National Historic Preservation Act of 1966 (NHPA) - The section of the NHPA that requires Federal agencies to account for the effects of their undertakings on historic properties and to provide the Advisory Council on Historic Preservation (ACHP) with a reasonable opportunity to comment. In addition, Federal agencies are required to consult on the Section 106 process with State Historic Preservation Offices (SHPOs), Tribal Historic Preservation Offices (THPOs), Indian Tribes, and Native Hawaiian Organizations (NHOs). The Section 106 process (54 USC § 306108) is defined in 36 CFR 800, Protection of Historic Properties.

SEQRA - New York State Environmental Quality Review Act

sf - square feet

SF₆ - sulfur hexafluoride

SF/P - square feet per pedestrian

SHPA - New York State Historic Preservation Act

SHWS - State Hazardous Waste Sites

SIP - State Implementation Plan; Statewide plan for complying with the Clean Air Act of 1970 (CAA). The SIP consists of guidance, rules, and agreements that the state will use to clean up polluted areas.

SO₂ - sulfur dioxide

SO_x - sulfur oxides; Sulfur-oxygen compounds that include the important *criteria pollutants* sulfur dioxide (SO₂) and sulfur trioxide (SO₃).

SOE - Support of Excavation

SPDES - State Pollutant Discharge Elimination System

SSURGO - Soil Survey Geographic Database

Study Area - A defined area or distance established to determine potential effects associated with the Proposed Action. Study areas vary in size and distance depending on the resource category and type of effects being considered.

STV - significant threshold values

SVOC - semi-volatile organic compound

SWF - Solid Waste Facilities

SWMP - Solid Waste Management Plan

SWPPP - stormwater pollution prevention plan; A plan that specifies site management activities to be implemented during site development, including construction stormwater best management practices, erosion and sedimentation controls, dewatering (nuisance water removal), runoff controls, and construction equipment maintenance.

I

TAGM - Technical and Administrative Guidance Memorandum

TBTA - Triborough Bridge and Tunnel Authority

TDF - Transportation Demand Forecasting

Third Party Consultant - AKRF, Inc. (see Independent Third Party Consultant), selected by FRA pursuant to 40 CFR 1506.5(c).

Threatened and Endangered Species - Any species listed under the Endangered Species Act of 1973 as being in danger of or threatened with extinction throughout all or most of its range.

THPO - Tribal Historic Preservation Officer

TIMS - Traffic Information Management System

TIP - Transportation Improvement Program

Tremie Method - The most common and expeditious way to place large volumes of concrete to considerable thickness under water.

TRIS - Toxic Chemical Release Inventory System

TSA - Transportation Security Administration (Federal - DHS)

U

UC - under construction

ULSD - ultra-low sulfur diesel

ULURP - Uniform Land Use Review Procedure (New York City)

UST - Underground Storage Tank

Underpinning - A process in which the existing structural support of a building or structure is stabilized or reinforced from below to permit construction underneath.

Undertaking - A project, activity, or program funded in whole or in part by a Federal agency, including those carried out by or on behalf of a Federal agency, those carried out with Federal financial assistance, and those requiring a Federal permit, license, or approval.

USDA - U.S. Department of Agriculture

USDOT - U.S. Department of Transportation

USEPA - U.S. Environmental Protection Agency

V

V/C Ratio - volume/capacity ratio; Describes the relationship between the amount of traffic a roadway was designed to carry and the amount of traffic it actually carries. Related to the Level of Service (LOS) the roadway can provide. See also *Level of Service*.

VCP - Voluntary Cleanup Program

VdB - velocity in decibels; A logarithmic measurement of vibration intensity (see *Vibration*).

Vessel - A 16-story metal structure composed of interlocking staircases and viewing platforms in Eastern Rail Yard.

VOC - volatile organic compound; Colorless gaseous compounds originating, in part, from the evaporation and incomplete combustion of fuels. In the presence of sunlight, VOCs react to form *ozone (O₃)*, a pollutant regulated by the *Clean Air Act of 1970 (CAA)* and its amendments.

Vibration - A rapid linear motion of a particle or of an elastic solid about an equilibrium position.

W

WESCS - wired emergency services communication system

WIT - width increment threshold

WRP - New York City Waterfront Revitalization Program

WRY - Western Rail Yard

WRY Tenant LLC - an affiliate of The Related Companies, LP; joint Project Sponsor

WSS - Web Soil Survey

WWTP - wastewater treatment plant

X, Y, Z

zsf - zoning square feet; area of floors in a building, excluding mechanical space, cellar space, floor space in open balconies, elevators or stair bulkheads.

26.1 ACRONYM AND TERMS LIST

This chapter also contains all of the acronyms and project terms in this EIS and Draft Section 4(f) Evaluation, alphabetized and categorized by the chapter in which they first appear.

26.1.1 CHAPTER 1: INTRODUCTION

Amtrak	National Railroad Passenger Corporation
Bureau	Build America Bureau
CEQ	Council on Environmental Quality
CEQR	City Environmental Quality Review
CPC	New York City Planning Commission
DEIS	Draft Environmental Impact Statement
EA	Environmental Assessment
FEIS	Final Environmental Impact Statement
FONSI	Findings of No Significant Impact
FRA	Federal Railroad Administration
gsf	gross square feet
Hudson Yards	LIRR John D. Caemmerer Yard
IS	intermediate school
LIRR	Long Island Rail Road
MTA	Metropolitan Transportation Authority
NEPA	National Environmental Policy Act of 1969
NHPA	National Historic Preservation Act
NOI	Notice of Intent
NYSHPO	New York State Historic Preservation Officer
Penn Station	New York Penn Station
Platform	a structured platform
Project Sponsor	joint venture of WRY Tenant LLC and Amtrak
Proposed Action	The Applicants' Proposal
PS	public school
RD	Restrictive Declaration
RFP	request for proposals
ROD	Record of Decision
ROW	right-of-way
RRIF	Railroad Rehabilitation and Improvement Financing
SCA	New York City School Construction Authority
SEA	Supplemental EA
SEQRA	New York State Environmental Quality Review Act
Tunnel Encasement	a railroad right-of-way preservation Tunnel Encasement
ULURP	Uniform Land Use Review Procedure
USDOT	U.S. Department of Transportation
WRY Tenant LLC	an affiliate of The Related Companies, LP

26.1.2 CHAPTER 2: PURPOSE AND NEED

EIS	Environmental Impact Statement
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26.1.3 CHAPTER 3: ALTERNATIVES

A/E	Engineer/Architect of Record
AHV	after hours variance
ANSI	National Fire Protection Association
APTA	American Public Transit Association
ASCE	ASCE
BOD	Basis of Design
Con Edison	Consolidated Edison
Convention Center	Jacob K. Javits Convention Center
DHS	United States Department of Homeland Security
DM-30	Dual Mode
NYCDOB	New York City Department of Buildings
HVAC	heating, ventilating, and air condition
MEP	underdeck mechanical, electrical, and plumbing
MPT	Maintenance and Protection of Traffic
NFPA	National Fire Protection Association
NRT	North River Tunnel
NYCDOT	New York City Department of Transportation
NYCDEP	New York City Department of Environmental Protection
NYCNCC	New York City Noise Control Code
NYCT	MTA New York City Transit
O&M	operation and maintenance
OCCM	Office of Construction Mitigation and Coordination
OPR	Owner's Project Requirements
OSHA	Occupational Safety and Health Administration
PDC	Project Design Criteria
Preferred Alternative	Proposed Action
SOE	Support of Excavation
TBTA	Triborough Bridge and Tunnel Authority
TSA	Transportation Security Agency

26.1.4 CHAPTER 4: ANALYSIS FRAMEWORK

Farley Building	James A. Farley Post Office Building
FTA	Federal Transit Administration
NYCEDC	New York City Economic Development Corporation
PATH	Port Authority Trans-Hudson

26.1.5 CHAPTER 5: LAND USE, LAND PLANNING, AND PROPERTY

FAR	floor area ratio
LWRP	Local Waterfront Revitalization Program
NEC	Northeast Corridor
<i>NEC Master Plan</i>	<i>Northeast Corridor Infrastructure Master Plan</i>
NYCHA	New York City Housing Authority
NYMTC	New York Metropolitan Transportation Council
NYSDOS	New York State Department of State
OneNYC	<i>One New York: The Plan for a Strong and Just City</i> ; a comprehensive plan developed by the New York City Mayor's Office of Long Term Planning and Sustainability
PlaNYC	<i>PlaNYC: A Greener, Greater New York</i> ; plan of sustainability and resiliency initiatives by the New York City Mayor's Office of Long Term Planning and Sustainability

26.1.6 CHAPTER 6: TRANSPORTATION

BMP	Best Management Practice
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26.1.7 CHAPTER 7: AIR QUALITY, GREENHOUSE GAS EMISSIONS, AND RESILIENCE

BAT	best available technology
BFE	Base Flood Elevation
CAA	Clean Air Act
CLCPA	Climate Leadership and Community Protection Act
CO	carbon monoxide
DFE	Design Flood Elevation
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
GHG	greenhouse gas
HC	hydrocarbons
hp	horsepower
IPCC	Intergovernmental Panel on Climate Change
NAA	non-attainment areas
NAAQS	National Ambient Air Quality Standards
NAVD88	North American Vertical Datum of 1988
NO ₂	nitrogen dioxide
NPCC	New York City Panel on Climate Change
NRCC	Northeast Regional Climate Center
NYSERDA	New York State Energy Research and Development Authority
O ₃	ozone
PANYNJ	Port Authority of New York and New Jersey
PM	particulate matter
SIP	State Implementation Plan
SO ₂	sulfur dioxide
SO _x	sulfur oxides
ULSD	ultra-low sulfur diesel
USEPA	United States Environmental Protection Agency

26.1.8 CHAPTER 8: NOISE AND VIBRATION

dBA	A-weighted sound level
MD	midday
mph	miles per hour
FDNY	Fire Department of the City New York City
PCE	Passenger Car Equivalent

26.1.9 CHAPTER 9: CULTURAL RESOURCES

ACHP	Advisory Council on Historic Preservation
APE	area of potential effects
CEPP	Construction Environmental Protection Plan
CFR	Code of Federal Regulations
FGEIS	Final Generic Environmental Impact Statement
HARBS	Historic Architectural Resources Background Study
LOR	Letter of Resolution
LPC	Landmarks Preservation Commission
NRHP	National Register of Historic Places
NYC Parks	New York City Department of Parks and Recreation
OPRHP	New York State Office of Parks, Recreation, and Historic Preservation
THPO	Tribal Historic Preservation Officers

26.1.10 CHAPTER 10: PARKS AND RECREATION AREA

DOE	Department of Education
ESD	Empire State Development Corporation
HRPA	Hudson River Park Act
HRPT	Hudson River Park Trust

26.1.11 CHAPTER 11: AESTHETICS AND VISUAL QUALITY

AVE	Area of Visual Effect
FHWA	Federal Highway Administration
NYPD	New York Police Department
SBS	Select Bus Service

26.1.12 CHAPTER 12: CONTAMINATED MATERIALS

AAI	All Appropriate Inquiries
ACM	asbestos-containing material
ASTM	American Society for Testing and Materials
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CHASP	Construction Health and Safety Plan
CRECs	Controlled Recognized Environmental Conditions
DSNY	NYC Department of Sanitation
ESA	Environmental Site Assessment
ESI	Environmental Site Investigation
HRECs	Historic Recognized Environmental Conditions
LBA	Louis Berger and Associates, P.C.
LBP	lead-based paint
LTANKS	Leaking Tanks
MGP	manufactured gas plant
NYCOER	New York City Office of Environmental Remediation
NFRAP	No Further Remedial Action Planned
NYSDEC	New York State Department of Environmental Conservation
PAHs	polycyclic aromatic hydrocarbons
PB	Parsons Brinckerhoff
PBS	Petroleum Bulk Storage
PCB	polychlorinated biphenyls
ppb	parts per billion
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
RECs	Recognized Environmental Conditions
RSCOs	Remedial Soil Cleanup Objectives
SHWS	State Hazardous Waste Site
SVOCs	semi-volatile organic compounds
TAGM	Technical and Administrative Guidance Memorandum
UST	underground storage tank
VOCs	volatile organic compounds

26.1.13 CHAPTER 13: UTILITIES AND ENERGY

AC	alternating current
ADP	Amended Drainage Plan
CSO	combined sewer overflow
DC	direct current
gpd	gallons per day
KWH	kilowatt hours
mgd	million gallons per day
MRF	materials recovery facility
MS4	Municipal Separate Storm Sewer Systems
MTS	marine transfer station
SPDES	State Pollutant Discharge Elimination System
SWMP	Solid Waste Management Plan
WWTP	Wastewater Treatment Plant

26.1.14 CHAPTER 14: SOILS AND GEOLOGY

el.	elevation
NGVD29	National Geodetic Vertical Datum of 1929

26.1.15 CHAPTER 15: WATER AND NATURAL RESOURCES

E1UBL	subtidal estuarine wetland habitat with an unconsolidated bottom
EFH	essential fish habitat
HRE	Hudson Raritan Estuary
IPaC	Information, Planning, and Consultation System
LTCP	Long-Term Control Plan
LZ	littoral zone tidal wetlands
MBTA	Migratory Bird Treaty Act
MLLW	mean-lower-low-water
MLW	mean low water
NJEIFP	New Jersey Environmental Infrastructure Financing Program
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NWI	National Wetland Inventory
SAV	submerged aquatic vegetation
SWPPP	stormwater pollution prevention plan
USA	Use and Standards Attainment Program
USFWS	United States Fish and Wildlife Service

26.1.16 CHAPTER 16: COASTAL ZONE CONSISTENCY

CMP	Coastal Management Program
CZMA	Coastal Zone Management Act
MHHW	Mean higher high water
WRP	Waterfront Revitalization Program

26.1.17 CHAPTER 17: SOCIOECONOMICS

ACS	American Community Survey
ADA	American Disabilities Act
CRIS	Cultural Resource Information System
CSD 2	Community School District 2
EMS	Emergency Medical Services
FacDB	Facilities Database
GDP	Gross Domestic Product
GIS	Geographic Information Systems
IMPLAN	IMPact analysis for PLANning
LGBT	lesbian, gay, bisexual, and transgender
MOE	margin of error
NYPL	New York Public Library

26.1.18 CHAPTER 18: PUBLIC HEALTH

26.1.19 CHAPTER 19: ENVIRONMENTAL JUSTICE

CP-29	Commissioner Policy 29
CPP	Construction Protection Plan
EO	Executive Order
HHS	Department of Health and Human Services

26.1.20 CHAPTER 20: INDIRECT, CUMULATIVE, AND OTHER EFFECTS

LEED	Leadership in Energy and Environmental Design
LOS	level of service
NYCACS	New York City Administration for Children's Services
NYCDDC	New York City Department of Design and Construction
RWCDS	Reasonable Worst-Case Development Scenario
STV	significant threshold values

26.1.21 CHAPTER 21: SECTION 4(F) EVALUATION

NYSDOT	New York State Department of Transportation
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26.1.22 CHAPTER 22: MITIGATION MEASURES AND PROJECT COMMITMENTS

26.1.23 CHAPTER 23: PUBLIC INVOLVEMENT AND AGENCY COORDINATION

FM-200	Fire Alarm and Fire Suppression
HUD	U.S. Department of Housing and Urban Development
RIR	Remedial Investigative Report
USDA	U.S. Department of Agriculture

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