



MATRIX **NEW** WORLD

Engineering Progress

NYC ENVIRONMENTAL QUALITY REVIEW (CEQR) ANALYSIS & PLANNING

Matrix knows New York City.

New York City applies a comprehensive environmental review process that has been developed to address the unique urban and natural environments that exist within its five boroughs. The environmental review process also addresses issues relating to human health. The City Environmental Quality Review (CEQR) assessments provide the framework for environmental decision-making for projects requiring New York City discretionary approvals. As an extension of the New York State Environmental Quality Review Act (SEQRA), CEQR requires city agencies to consider and disclose the potential impacts of their proposed actions and evaluate reasonable alternatives.

Matrix New World Engineering's (Matrix's) environmental analysis capabilities are built on more than 30 years of consulting, environmental planning, and government experience within New York City. With a reputation for crafting environmental review documents with precision and accuracy, our experience and proficiency in real estate development, transportation, aviation, remediation, marine, coastal resiliency, and energy infrastructure enables us to manage impact assessment projects across a broad range of sectors.

Key project experience

- Environmental Impact Analyses
- Environmental Impact Statements
- Environmental Assessment Statements
- Environmental Review & Land Use Planning Testimony at Public Hearings
- Project Guidance & Strategy
- Litigation Support
- Expertise in Multiple Overlapping Jurisdictions (City, State & Federal Environmental Regulations)
- Land Use Consistency & Compatibility Analyses
- Agency Coordination
- Scoping Reports
- Alternative Screening Reports
- Programmatic Analysis
- Purpose & Needs Statements
- Qualitative Habitat Indices
- Physical Stream & Stream Quality Assessments
- Wetland Delineations
- Wetland Mitigation
- Waterfront & Coastal Resiliency Assessments
- Phase I & II Environmental Site Assessments
- Permit & Grant Applications
- Remedial Action Plans & Construction Health & Safety Plans
- Storm Water Pollution Prevention Plans
- Biological Resource Assessments
- Community Board Meeting Presentations

Services provided

- All Levels of Environmental Review Documentation (EISs, EASs & Technical Memoranda)
- Combined CEQR, SEQRA & NEPA Reviews
- Land Use & Zoning Analyses
- Site Constraint & Opportunity Analyses
- Reasonable Worst-Case Development Scenarios
- Government Relations
- Federal & State Permitting (NYSDEC USACE)
- Natural Resource Damage Assessments
- Geotechnical & Hydrogeological Investigations
- Wetland Delineation, Classification & Restoration
- Threatened & Endangered Species Consultations/Essential Fish Habitat Assessments
- Sediment Sampling & Analysis
- Water Quality Sampling
- Hazardous Materials Assessments (Phase I & Phase II ESA Reports & Building Materials)
- Subsurface Investigations
- Coastal Zone Consistency Review
- Population & Demographic Analysis
- Environmental Justice
- GIS/GPS Data Collection, Inventory & Mapping

Contact

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Matrix specializes in City regulatory approvals.

Matrix senior team members are industry leaders with expertise in City regulatory approvals. Our experts previously led teams of planners at the NYC Department of City Planning (DCP) and collaborated with NYC agency partners including the Department of Environmental Protection (DEP), Department of Transportation (DOT), Landmarks Preservation Commission (LPC) and Department of Parks and Recreation, among others. We have deep institutional knowledge of the most efficient ways to navigate the City's often opaque and complex approval processes. Our team includes city planners, engineers, and coastal resiliency experts. Matrix is a one-stop-shop for your NYC environmental review application needs.

Matrix specializes in the City's regulatory approval process, with strategic agency coordination and efficient preparation of environmental analyses and documentation pursuant to CEQR. Our staff has worked with municipalities, development corporations, property owners and developers on some of the most complex projects in New York City. Matrix's team of scientists, consultants, and project managers understand that environmental reviews are critical to a project's timely success. Through diligent coordination and communication with regulatory agencies, Matrix streamlines the time-consuming environmental review process. We strive to significantly reduce project delays by identifying environmental constraints and developing solutions early in the design phase, and using strategic early public and agency outreach in initial project development. We also present at public hearings and Community Board meetings, offer expert testimony in environmental and planning issues, and provide litigation support.

Matrix knows the waterfront.

Matrix specializes in guiding complex waterfront development projects through the environmental review and approval processes. Along with specialty services in planning, GIS, hazardous materials and wetland/natural resource permitting, we can quickly navigate the agency coordination and ever-changing environmental precedents. Our team of more than 200 specialists ensures we have the breadth of expertise and manpower for completing documents efficiently and cost-effectively.

Projects

- Borough-Based Jails CEQR hazmat investigations, RAPs & CHASPs (NYCOMB)
- NYC Parks Bridge Park Environmental Review (CEQR, DAD for NYSDOT)
- NYC Parks Greenbelt Recreation Center Improvements, Staten Island
- Tompkinsville Esplanade and Pier – NEPA EA for coastal resiliency/public access/facility rehabilitation project (NYCEDC)
- NYEDC Citywide Ferry Service Projects – CEQR hazmat investigations, RAPs & CHASPs, & Landscape Architecture services for eight proposed ferry expansion sites (NYCEDC)
- Hunts Point Peninsula Resiliency Evaluation and Pilot Project – preliminary NEPA/SEQRA/CEQR environmental reviews, focusing on essential issues affecting proposed pilot projects (NYCEDC)
- Raise Shorelines Citywide Priority Implementation Projects – natural resource, topographic, property, utility, and bathymetric surveys; drainage analysis; and preparation of environmental review documents in accordance with CEQR law and regulations (NYCEDC)
- Homeport Pier Resiliency Project – prepared CEQR EA for proposed improvements to the upgraded Homeport Pier in Staten Island
- Completion of over thirty CEQR EAS documents for Renovation Projects at Transitional Housing Shelter Sites Citywide
- Empire Station Complex, Manhattan, NY – Environmental due diligence and preparation of the hazardous materials chapter of the SEQRA EIS for eight properties surrounding Penn Station (ESD)



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NEPA & STATE EQUIVALENT COMPLIANCE DOCUMENTATION

Matrix navigates complexity.

Matrix New World Engineering's (Matrix's) National Environmental Policy Act (NEPA) and state equivalent compliance documentation capabilities are built on more than 30 years of nationwide consulting experience. Known for delivering high quality results, Matrix has successfully executed and delivered on multiple concurrent large-scale and complex contracts for public agencies (Federal, state, municipal), private corporations, architects, engineering firms, and commercial and residential developers. We have a reputation for crafting comprehensive and legally defensible documents with precision. This coupled with our experience and proficiency in transportation, aviation, marine, water/wastewater, energy and utility infrastructure, coastal resilience, and disaster response, enables us to manage impact assessments across a broad range of sectors.

Matrix's team of environmental project managers and planners understand that successful execution of Federal and state impact assessment processes is critical to maintaining an overall project development schedule. Through diligent coordination and timely, purposeful communication with regulatory agencies, project stakeholders, and the public; Matrix effectively avoids project delays and streamlines the environmental review process.

Matrix conducts preliminary environmental resource reviews to identify key issues early and for use during alternatives development, screening, and refinement to ensure only reasonable and feasible alternatives are carried forward into detailed impact assessment. Our impact assessment methods follow standard analysis protocols and techniques, and most important, we document results in logical, concise, and easily understandable terms which helps facilitate key project decisions. Matrix focuses on solving problems related to natural resources and the human/built environment, strategically identifying project issues, and employing avoidance, minimization, and mitigation measures that are technically feasible, cost effective, and easily implemented.

Services provided

- NEPA
- State & Local Equivalents (SEQRA; CEQR; CEPA; MEPA)
- USDOT Act Section 4(f)
- Land Use Studies
- Coastal Zone Consistency Review
- Environmental Justice
- Wetland Delineation, Classification, & Restoration
- Threatened & Endangered Species Consultations/Habitat Surveys/EFHs/BAs
- Soil Contamination Investigations
- Hazardous Material Surveys
- Geotechnical & Hydrogeological Investigations
- Sediment Sampling & Analysis
- Water Quality Sampling
- Benthic Studies
- GIS/GPS Data Collection, Inventory, & Mapping
- LWCFA Section 6(f)
- Cultural Resources/Sec. 106 Consultations
- Survey
- Stormwater Management/Design
- Scoping Reports
- Alternative Screening Reports
- Purpose & Needs Statements
- Agency Coordination
- Phase I & II Environmental Site Assessments
- Permit & Grant Applications

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The National Environmental Policy Act (NEPA)

Matrix prepares all types of NEPA documents for federal agencies, including Environmental Assessments (EAs), Environmental Impact Statements (EISs), and Categorical Exclusions (CEs) and the associated decision documents (Finding of No Significant Impact/Record of Decision). Our Senior NEPA practitioners fully understand the Executive Orders (EOs) and federal environmental laws that often drive NEPA projects. We can manage the entire NEPA process and its associated documentation requirements or provide specific resource impact analyses for a project. Our collective NEPA expertise also enables Matrix to effectively serve clients as an independent third-party NEPA peer reviewer.

State Equivalent Environmental Compliance Documentation

Matrix staff are also well-versed in preparing environmental compliance documentation to satisfy state and municipal laws that are equivalent to NEPA. Matrix is intimately familiar with NY State Environmental Quality Review Act (SEQRA), New York City Environmental Quality Review (CEQR), Connecticut Environmental Policy Act (CEPA) and Massachusetts Environmental Policy Act (MEPA) regulations and corresponding documentation, agency coordination, and public outreach requirements. We have worked with a wide range of agencies and have helped them efficiently and effectively navigate state environmental processes, including fostering the community engagement and support necessary to ensure development decisions are politically and environmentally sustainable.



Projects

- John F. Kennedy International Airport Redevelopment Program – NEPA EA for Port Authority/FAA, including involvement in Public Meetings & overall document review
- Puerto Rico Critical Port Facilities – NEPA EAs at multiple locations in Puerto Rico following Hurricane Maria (FEMA)
- LaGuardia Airport Access Improvement Project – Ecological & Hazardous Waste Sections of EIS for proposed AirTrain facility between the airport & Willett’s Point Station (FAA)
- Tompkinsville Esplanade and Pier – NEPA EA & CEQR EAF for coastal resiliency/public access/facility rehabilitation project (NYCEDC)
- Hunts Point Peninsula Resiliency Evaluation and Pilot Project – preliminary NEPA/SEQRA/CEQR environmental reviews, focusing on essential issues affecting proposed pilot projects (NYCEDC)
- Raise Shorelines Citywide Priority Implementation Projects – natural resource, topographic, property, utility, & bathymetric surveys; drainage analysis; and preparation of environmental review documents in accordance with CEQR law and regulations (NYCEDC)
- Development of a Community Activities Center at U.S. Military Academy at West Point (USACE)
- Hazardous Waste Sections of EIS for Access to Region’s Core Project – constructing a new rail tunnel below Hudson River to connect NY and NJ (PANYNJ)
- Ecological and Hazardous Waste Sections of EA in response to New Jersey EO215 requirement for Reconstruction of Ambrose Brook Bridge, Middlesex County, NJ (NJT)
- John F. Kennedy International Airport Taxiway K4 Extension – Leading NEPA EA development for Port Authority/FAA, including technical analyses for natural, cultural, and physical resources, as well as consulting with Port Authority on stormwater management and design.”
- Robert F. Kennedy Bridge New Pedestrian Ramp and Fender Rehabilitation – SEQR EAF and supporting documentation lead



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