



# PROPOSAL FOR

Environmental Consulting, Testing, Oversight and  
Monitoring Services





## Proposal for

Environmental Consulting,  
Testing, Oversight and  
Monitoring Services



07.29.2025

## Contact

**Jerold Blustein, LSRP**  
Senior Associate,  
Department Manager,  
Environmental Services

H2M Associates, Inc.  
119 Cherry Hill Road,  
Suite 110  
Parsippany, NJ 07054



862.207.5900 ext.2106



973.334.0507



jblustein@h2m.com

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architects + engineers

119 Cherry Hill Road, Ste 110  
Parsippany, NJ 07054 | tel 862.207.5900

ENGINEERING NJ #24GA28019100  
LAND SURVEYING NJ #24GA28019100  
LANDSCAPE ARCHITECTURE NJ #24GA28019100

July 29, 2025

Mr. John T. Mahon  
Executive Director  
Housing Authority of the City of Bayonne  
549 Avenue A  
Bayonne, NJ 07002

**RE: Proposal for Environmental Consulting, Testing, Oversight and Monitoring Services**

Dear Mr. Mahon:

As a trusted partner to public agencies across New Jersey, **H2M Associates, Inc. (H2M)** is proud to present our qualifications to the Housing Authority of the City of Bayonne (Authority) for environmental consulting, testing, monitoring, and oversight services. With a deep understanding of the regulatory landscape and a proven track record of delivering responsive, cost-effective solutions, our team is uniquely positioned to support the Authority's mission of maintaining safe, sustainable, and resilient housing. From site assessments and remediation strategies to compliance support and infrastructure planning, we bring a multidisciplinary approach that aligns with the Authority's goals and the evolving needs of its communities.

H2M has staff resources of over 580 highly skilled and experienced environmental engineers, scientists, and support personnel. We have a full complement of professional resources, including Licensed Site Remediation Professionals (LSRPs), Professional Geologists, and Professional Engineers, and the capacity to complete projects on time and within budget.

We have successfully provided environmental consulting, testing, and remediation services to several housing authorities across New Jersey, including the Newark Housing Authority, Jersey City Housing Authority, and the Trenton Housing Authority. These engagements have included Phase I and II Environmental Site Assessments, underground storage tank investigations, hazardous materials testing, soil and groundwater sampling, and regulatory reporting. Our familiarity with public housing procedures and HUD compliance requirements ensures a seamless and responsive service experience.

H2M is in full compliance with the Business Registration Provisions of P.L. 2004, c.57, as required at the time of proposal submission and throughout the performance of any awarded contract. Our New Jersey Business Registration Certificate is attached at the end of our proposal. Additionally, H2M is not under sanction by the United States Department of Housing and Urban Development (HUD).

We appreciate the opportunity to submit our qualifications to the Authority. Should you have any questions, please feel free to contact our proposed Project Manager Mr. Jerold Blustein, LSRP, at (862) 207-5900 ext. 2106 or email [jblustein@h2m.com](mailto:jblustein@h2m.com). Thank you for your consideration.

Very truly yours,

**H2M Associates, Inc.**

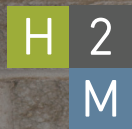
Charles A. Martello, P.E., LSRP  
Executive Vice President, Principal Office Director

Jerold M. Blustein, LSRP  
Senior Associate, Department Manager, Environmental Services









Here at H2M, we value people.



H2M was organized in 1933 and founded on the principles of professional excellence, hard work, and integrity.

## Practical Approach. Creative Results.

H2M is a multi-disciplined professional consulting and design firm with a proud legacy of client service and a proven ability to tackle complex environmental, architectural, and engineering challenges. Since 1933, we have played a vital role in shaping local communities—designing and improving essential infrastructure such as water treatment plants, emergency response facilities, schools, roadways, public buildings, and more.

With decades of experience, we have built a reputation for delivering high-quality, client-focused solutions that balance innovation with practicality. Our approach is rooted in collaboration, technical excellence, and a deep understanding of the communities we serve. Whether navigating regulatory complexities, addressing evolving environmental concerns, or designing spaces that enhance everyday life, H2M remains committed to providing sound judgment, creative problem-solving, and exceptional service at every stage of a project.

H2M takes pride in the depth and diversity of our comprehensive in-house service capabilities. With a team of over 580 professionals—including engineers, scientists, architects, surveyors, planners, landscape architects, inspectors, and technical support specialists—we provide a fully integrated, multidisciplinary approach to our clients.

### H2M Staff by Discipline

 <b>139</b> Architecture & Interior Design	 <b>76</b> Water	 <b>63</b> MEP	 <b>57</b> Environmental
 <b>30</b> Construction Inspection	 <b>30</b> Wastewater	 <b>29</b> Civil	 <b>12</b> Structural
 <b>10</b> Planning	 <b>8</b> Surveying	 <b>4</b> Landscape Architecture	 <b>3</b> GIS

## OPERATING PHILOSOPHY

### MISSION

#### Our People

We commit to developing our people and rewarding hard work with growth opportunities in an inclusive professional environment.

#### Our Clients

We commit to being trusted advisors for our clients and delivering problem solving value and quality on every project.

#### Our Communities

We commit to creating thriving and healthy communities by giving of ourselves and developing sustainable solutions that benefit everyone.

### VISION

We exist to improve the quality of life for everyone in our reach by empowering our diverse talent to sustainably solve the challenges of the built environment.

### VALUES

#### We Stand as One H2M

Inclusive. Supportive. Collaborative. No matter where you are.

#### We Challenge One Another

We show up curious and push boundaries.

#### We Do the Right Thing

Our character is built on doing what is right and ethical.

#### We Work Safely

We care for the lives of our people and their families.

#### We Own it

We hold ourselves accountable for team success and personal achievement.

#### We Embrace Diversity

We acknowledge and honor the fundamental value and dignity of all individuals.





- Feasibility/implementation studies
- Energy conservation
- Cost/benefit analysis
- Commissioning/testing

## Planning

- Comprehensive master planning
- Parks, open space and recreation planning
- Environmental and natural resource planning
- SEQRA and EIS documentation and process support
- Community visioning
- Zoning ordinances and analysis
- Redevelopment studies and plans
- Geographic Information Systems (GIS)
- Urban design
- Strategic solid waste management planning
- Stormwater management program planning
- FEMA hazard mitigation & resilience planning
- Design guidelines
- Renderings
- Feasibility studies and conceptual plans
- Downtown revitalization
- Expert private testimony
- Municipal board representation

## Wastewater Engineering

- Characterization/quantification of waste
- Treatment facility evaluation
- Scavenger waste facility design
- Outfalls and leaching systems design
- Chemical feed systems design
- Monitoring and control systems
- Nutrient removal treatment systems design
- Facility planning studies
- Wastewater treatment studies
- Wastewater treatment plant design
- Wastewater reuse design
- Standby power systems
- Sludge thickening, dewatering
- Sludge treatment, disposal
- Odor control
- UV and chemical disinfection systems
- Sewer system extension planning
- User cost analysis
- Sanitary sewer design
- Sewer rehabilitation studies and design
- Infiltration/Inflow evaluation
- Pump station evaluations and design
- Sewer flow modeling
- Security systems
- Geographic Information Systems (GIS)
- Discharge monitoring reports
- Plant performance monitoring
- Preparation of O&M manuals
- Facility start-up and operations
- Groundwater/effluent monitoring programs
- Operator training
- Industrial pretreatment programs
- Prepare/revise sewer use ordinance

## Water Engineering

- Supply well design
- Plant rehabilitation design
- Water treatment systems
- Water filtration systems design
- VOC removal treatment systems design
- Distribution system analysis and design
- Distribution hydraulic modeling
- Automated mapping/facilities mapping
- Storage tank rehabilitation/repainting
- Storage tank design
- Tank and coatings inspection
- Instrumentation and computer control designs
- Comprehensive groundwater modeling
- Geographic Information Systems (GIS)
- Aquatics and park design
- Public swimming pool design
- O&M programs
- Training programs
- Asset management

## Architecture

- Architectural design
- Comprehensive grant programs
- LEED design processes
- Interior design
- Removal of barriers to the handicapped
- Master plans and revisions
- Needs assessments
- Planning studies
- Building conditions surveys
- Restoration of historic structures
- Restaurant and kitchen design
- Zoning ordinance review
- Educational facilities design
- Assisted living facilities design

## Civil/Site & Structural Engineering

- Roadway reconstruction and resurfacing
- Site plan design
- Street lighting
- Flood control and drainage
- Irrigation systems
- Sidewalks and curbs
- Storm drainage systems
- Water mains
- Local roadway study and design
- Subdivision design
- Streetscape design and improvements
- Parks, playgrounds, athletic fields
- Parking fields
- Highway planning studies
- Intersection design and improvements
- Visual impact analyses
- Geographic Information Systems (GIS)
- Green infrastructure design
- Structural conditions assessments
- Structural building design
- Structural renovations/alterations
- Cause and origin investigations
- Retaining walls, bulkhead, and culvert design
- Storm hardening/resiliency
- Expert testimony

## Construction Phase Services

- Construction management/administration
- Resident engineering
- Construction inspection (F/T or P/T)
- Daily/weekly/monthly project reporting
- Utility coordination
- Weekly job progress meetings/minutes
- Schedule review
- Change order processing
- Payment requisition processing
- Project startup
- Commissioning
- Prepare punch list
- Project closeout
- Record drawings

## Environmental Engineering & Services

- Air and water pollution control
- Hazardous waste management
- Hazardous materials storage design
- Waste minimization
- Environmental Impact Statements (EISs)
- Wetland delineation
- Environmental Site Assessments (ESAs)
- Environmental compliance audits
- Environmental permitting
- Site investigations
- Brownfield assessments

- Solid waste management facility design
- Solid waste facility operational assessments
- Waste & materials quantification & characterization analysis
- NYSDEC Part 360 Regulatory Compliance & Permitting
- Remedial investigations/feasibility studies
- Risk assessments
- Above and underground tank management
- Soil and groundwater remediation
- Soil vapor intrusion studies
- Regulatory compliance programs
- Industrial hygiene
- Indoor air quality
- CM/LBP/mold inspections and abatement
- Computer modeling
- Asbestos investigation and removal
- Geographic Information Systems (GIS)

## Land Surveying

- Boundary and title surveys
- Topographical surveys
- Horizontal and vertical control surveys
- Hydrographic surveys
- Route surveys
- Subdivision planning
- Sanitary and drainage study maps
- Legal descriptions
- Construction layout services
- As-built surveys
- Architectural surveys
- Structural surveys
- Under-construction inspection surveys
- Easement survey and description

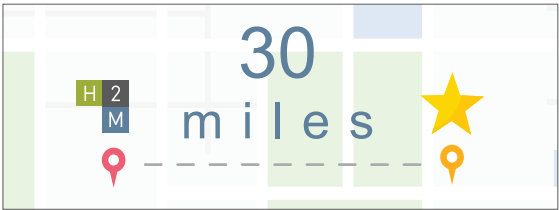
## Landscape Architecture

- Tree inventory and assessment
- Tree mitigation
- Landscape design and restoration
- Conceptual site design
- Landscape planning
- Illustrative renderings
- Landscape architectural detailing
- Streetscape and urban design
- Parks and playgrounds design
- Campus landscape design
- Private estate and residential design
- Planting design
- Wetlands mitigation
- Green infrastructure

## MEP Services

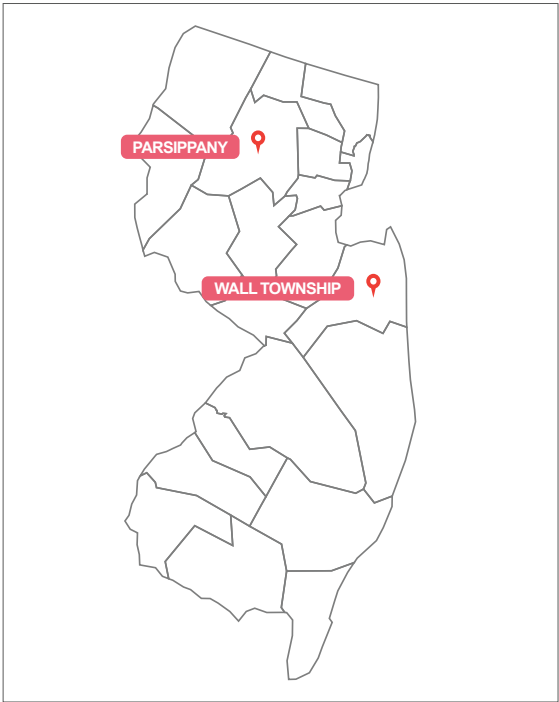
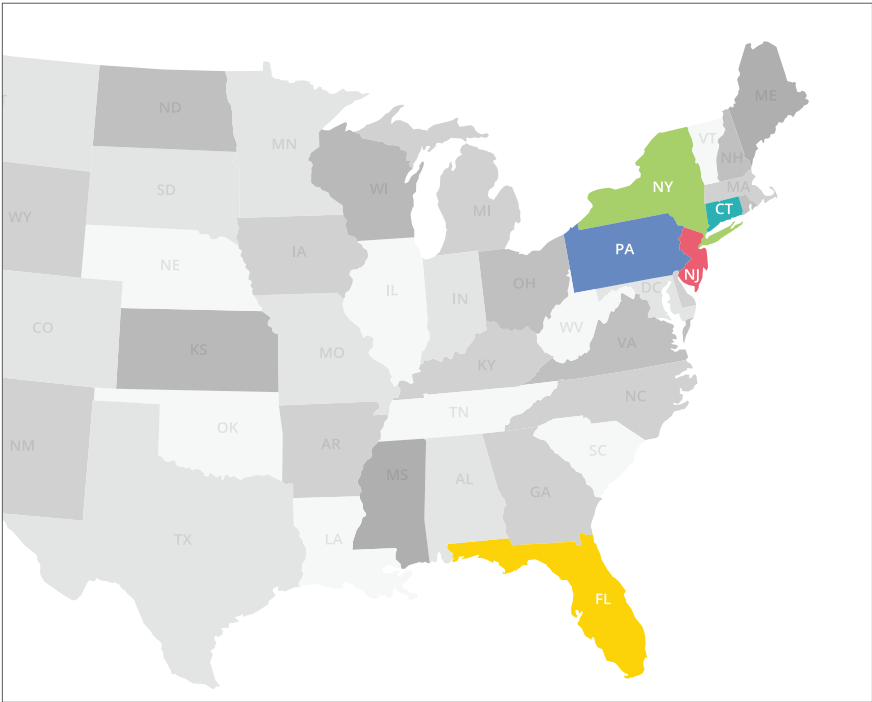
- Electrical systems design
- Feasibility and implementation studies
- Power supply
- Exterior and interior building services
- Closed-circuit television security systems
- Emergency power generation
- Site/systems and load evaluations
- Energy studies
- Site lighting design
- Fire and security systems
- SCADA systems
- Utility company rebates and incentives
- HVAC systems design
- Heat and cooling load analysis
- Steam systems
- Hydronics
- Heat recovery systems
- Chillers and cooling towers
- Laboratory ventilation systems
- Site/systems evaluations





H2M Office Locations | New Jersey Offices

Distance from our Parsippany, NJ office to the Housing Authority of the City of Bayonne



- 538 Broad Hollow Road, 4th Floor East  
Melville, NY 11747
- 230 West 38th Street, 14th Floor  
New York, NY 10018
- 737 Roanoke Avenue  
Riverhead, NY 11701
- 2 Executive Boulevard, Suite 401  
Suffern, NY 10901
- 1133 Westchester Avenue, Suite N-210  
White Plains, NY 10605

- 433 River Street, Suite 8002  
Troy, NY 12180
- 119 Cherry Hill Road, Suite 110  
Parsippany, NJ 07054
- 4810 Belmar Boulevard  
Wall Township, NJ 07753
- 360 Bloomfield Avenue, Suite 406  
Windsor, CT 06095

- 951 Yamato Road, Suite 202  
Boca Raton, FL 33431
- 100 S. Ashley Drive  
Tampa, FL 33602
- 333 SE 2nd Avenue  
Miami, FL 33131
- 301 Grant Street, Suite 270  
Pittsburgh, PA 15219

“H2M” refers to H2M Architects, Engineers, Geology, Land Surveying and Landscape Architecture, D.P.C. and/or its subsidiary H2M Associates, Inc., and/or its affiliate H2M Architects & Engineers, Inc., as appropriate to the context. Each company’s professional resources are available to the others to the maximum extent permitted by applicable state laws. H2M will not practice, and should not be interpreted to be offering to practice, any professional service for which it and its cognizant employees are not properly licensed.

H2M Architects, Engineers, Geology, Land Surveying and Landscape Architecture, DPC (dba: H2M architects + engineers) is a NYS Design Professional Corporation. It maintains New York Certificates of Authorization to provide professional architecture, engineering, geology, land surveying, and landscape architecture services.

H2M Associates, Inc. is a New Jersey business corporation. It is a wholly owned subsidiary of the parent company. It maintains New Jersey Certificates of Authorization to provide professional engineering, land surveying, and landscape architecture services.

H2M Architects & Engineers, Inc. is a New Jersey business corporation. It is an affiliate of the parent company, being under the ownership and control of a group of appropriately licensed officers of the parent company. It maintains New Jersey Certificates of Authorization to provide architecture and professional engineering services. It is also appropriately structured to maintain certificates of authority to provide architecture and professional engineering services in Connecticut, Delaware, Florida, Louisiana, Massachusetts, Pennsylvania, and Virginia.



The Core of Excellence is an H2M exclusive initiative that sets us apart from the competition with a focus on excellence and quality as a core element of our services. It's a firm-wide commitment to deliver excellence through innovative and best-in-class service to our clients, colleagues, and ourselves. H2M's Core of Excellence is comprised of five key components:

 <b>QA/QC</b> <p>We demonstrate our commitment to ensuring quality at the corporate level through our appointment of a full-time Director of Corporate QA/QC to lead the development, implementation, and oversight of H2M's Quality Management System (QMS). This commitment is further reinforced by established quality assurance team members who, independent of the project design team, assure that H2M's components of quality are incorporated. H2M's QMS is comprised of a combination of processes, tools and resources available to all H2M staff. These include Quality Control Checklists, established QA/QC communication channels, and templates all made accessible thorough H2M's comprehensive Project Management Framework.</p>	 <b>SCHEDULING</b> <p>We recognize the importance of timely project delivery and take great pride in our ability to quickly mobilize, assign staff, and complete projects on time. H2M developed a custom scheduling interface allowing for consistent data inputs from the entire firm on a bi-weekly basis. This is transitioning to a centralized scheduling database that allows real-time total team scheduling updates and awareness, allowing H2M to actively adapt our resources to meet the needs of even the most demanding project schedules. We can share detailed, easy to read graphic schedules with our clients, allowing them to always have their finger on the pulse of their project's timeline.</p>	 <b>SPECIFICATIONS</b> <p>Our focus and commitment to excellence and quality is further reflected in our Master CSI-based Specifications Library. A dedicated, full-time Specifications Manager oversees the continual development, standardization, and maintenance of our Master Specifications. H2M utilizes a cloud-based specification software platform that allows all users direct access to our Master Specifications Library to develop project-specific spec books. This process ensures that our project specifications include the latest updates in product data and reference standards.</p>
 <b>BIM/CAD</b> <p>Building Information Modeling (BIM) has revolutionized the A/E/C industry. By using intelligent 3-D digital models to generate our designs, H2M can achieve a higher level of quality, consistency, and efficiency in our production process, minimizing the potential for change orders during construction. We employ a full-time, dedicated, and independent team comprised of design professionals and BIM-CAD specialists whose primary responsibilities are to create, deploy, and maintain company-wide standards, templates, procedures, and workflows. Our adoption of BIM has been the single most important change in how we design and manage our projects.</p>	 <b>SAFETY</b> <p>Safety is essential at H2M. We employ a dedicated corporate health and safety manager within the Core of Excellence. H2M has established mandatory safety training and is actively implementing the Plan-Do-Check-Act methodology. By incorporating safety into our overall quality management systems, we ensure that all of our staff can get home safely each day and that we proactively respond to our clients' health and safety requirements.</p>	 <b>CLIENT BENEFITS</b> <ul style="list-style-type: none"> <li>★ Well-coordinated construction documents that reduce project change orders and minimize cost overruns</li> <li>★ Consistent quality and proven performance</li> <li>★ Optimized resource allocation to meet project demands</li> <li>★ Increased compliance with the latest industry and regulatory standards</li> <li>★ Enhanced project visualization via 3D modeling</li> <li>★ Improved collaboration among all project stakeholders</li> </ul>





- » Battery Park City Authority
- » Brooklyn Navy Yard Development Corporation
- » Camden Redevelopment Authority
- » Casino Redevelopment Authority
- » City of Hoboken Housing Authority
- » City University Construction Fund
- » Connecticut Department of Administrative Services
- » Dormitory Authority of the State of New York
- » Housing Authority of Bergen County
- » Hudson River Park Trust
- » Jersey City Redevelopment Authority
- » Middlesex County Improvement Authority
- » New Jersey Department of Environmental Protection
- » New Jersey Department of Military and Veterans Affairs
- » New Jersey Department of Transportation
- » New Jersey Division of Property Management and Construction
- » New Jersey Turnpike Authority
- » New York Air National Guard
- » New York City Department of City-wide Administrative Services
- » New York City Health and Hospitals Corporation
- » New York City Housing Authority
- » New York City School Construction Authority
- » New York Racing Authority
- » New York State Office of General Services
- » New York State Office of Mental Health
- » New York State Office of Parks, Recreation, and Historic Preservation
- » New York State Office of People with Developmental Disabilities
- » Newark Housing Authority
- » Port Authority of New York and New Jersey
- » Somerset County Improvement Authority
- » State University Construction Fund
- » The Trust for Governors Island
- » Town of Hempstead Housing Authority
- » United States Postal Service
- » Waterbury Housing Authority



## ► Firm Qualifications & Experience

### Overview

H2M is an award-winning multi-disciplinary professional consulting firm that excels in managing complex projects while balancing the needs of clients, costs, community, and the environment. Founded in 1933, H2M's philosophy was simple - to provide quality and client-focused service on every project. Now over 90 years later, that core value still guides us today. At H2M, we are dedicated to the belief that our clients and employees are our most important assets. The firm strives to fully understand the requirements of our clients to develop a specific approach that creates efficient and cost-effective results.

The H2M team includes senior professionals with experience performing all the elements of environmental site management, remedial planning, and remedial design engineering to facilitate the characterization and remediation of sites as necessary for regulatory closure, site restoration, and redevelopment. Our solutions toward environmental site management integrate innovative characterization and remediation approaches, while always keeping in mind the objectives and cost-sensitivity of our clients.

H2M has built its reputation based on meeting our clients' goals through our ability to plan and implement safer, practical, more efficient, and cost-effective solutions. For nine decades, we have successfully grown with this service strategy as demonstrated by the number of repeat clients and their referrals that comprise a significant portion of our existing projects. Our professional staff is dedicated to providing fast, efficient service and the highest quality of work. These core values and beliefs are instilled among all H2M employees:

1. The client is at the center of all that we do as a company. Excellent service is our hallmark.
2. Our people are the value we bring to the client and the foundation of who we are as a company.
3. Quality and excellence is our standard and our full-time responsibility.

H2M's success is measured by the added value we bring to the client. As we continue to grow and evolve, we are committed to continuing our tradition of providing high quality, cost-effective, and timely services to our clients.

### Corporate and Professional Licenses, Certifications, and Credentials

H2M Associates, Inc. (H2M) is authorized in the State of New Jersey to provide professional engineering services per the requirements of the New Jersey State Board of Professional Engineers and Land Surveyors. The firm, as well as several of our key staff, is also licensed with the New Jersey Department of Environmental Protection (NJDEP) for Subsurface Evaluation and Underground Storage Tank (UST) Closure (Registration No. US00142). Our environmental professionals possess the licenses, registrations, and/or professional certifications listed in the side bar.

Additionally, H2M is certified with the NJDEP to perform "Analyze Immediately Environmental Measurements" for field analysis, as required by the NJDEP's Regulations Governing the Certifications of Laboratories and Environmental Measurements N.J.A.C 7:18 (NJ Lab Cert. No. 16052) of firms that perform field sampling and water monitoring. As part of the certification program, H2M has a Quality Assurance and Standard Operating Procedures Manual in place to ensure all requirements are continually being met.

#### References

##### **Housing Authority of Bergen County**

Vincent M. Bufls  
Director of Operations  
(201) 336 7607

##### **Newark Housing Authority**

Gregory Good  
Former Senior Development Officer/  
Current Chief Real Estate Officer and  
Director of Asset Management at Invest  
Newark  
(973) 273-1040

##### **New Jersey Department of Environmental Protection**

Christopher M. Blake  
Section Chief, Bureau of Site  
Management, Publicly Funded Response  
Element  
(609) 940-4801

##### **Township of Montclair**

Janice Talley, P.P., AICP  
Director of Planning and Community  
Development  
(973) 509-4953

##### **Monmouth County**

Casey Hornstra, P.G.  
Division of Engineering & Traffic Safety  
(732) 431-7760 ext. 8992



H2M has the expertise to assist the Authority in addressing environmental impacts and site constraints related to the redevelopment of Brownfield properties. H2M has extensive experience in investigating, remediating, and implementing redevelopment strategies for environmentally impacted Brownfield sites. The firm can provide the Authority with expert professional environmental services to support revitalization and redevelopment initiatives for properties with environmental impairment. H2M has completed a number of projects with federal, state, county, and local public entities as well as private developers that involved the implementation of economic revitalization through federal and state funded Brownfield initiatives.

Through our work with the former New Jersey Meadowlands Commission (NJMC), our staff has first-hand experience working on grant-funded investigations. The firm has assisted the NJMC in performing environmental assessments and site investigations to advance the redevelopment of over 200 acres of underutilized commercial/industrial parcels within the NJMC District. This work was funded using United States Environmental Protection Agency (USEPA) Brownfields Assessment Pilot Grant funding.

H2M has also been working with the Township of Montclair to perform a site investigation, remedial investigation, and remedial action of a former gasoline service station property being remediated for construction of a neighborhood park. We assisted the Township in securing supplemental Hazardous Discharge Site Remediation Fund (HDSRF) Preliminary Assessment/Site Investigation/Remedial Investigation (PA/SI/RI) grant funding from the New Jersey Economic Development Authority (NJEDA) for conducting a PA, SI, and RI. H2M also successfully assisted the Township in securing a Recreation and Conservation Grant from the NJEDA, which will fund 75% of the remediation cost associated with the construction of the park. H2M was also engaged by the City of Perth Amboy to perform a remedial investigation of a former industrial property in the City's Brownfield Designation Area (BDA), funded through a HDSRF grant.

The firm is currently working as a consultant to the NJDEP Division of Publicly Funded Site Remediation under a multi-year term contract to perform remedial investigations, remedial design, and remediation oversight services at publicly-funded remedial investigation sites throughout New Jersey. Project assignments range in size and complexity and include former dump sites, dry cleaning facilities, industrial manufacturing/commercial facilities, chemical bulk storage facilities and abandoned gas stations and automotive service center facilities. Activities conducted under this contract include PAs, SIs, RIs, vapor intrusion investigations, remedial action alternative evaluations, remedial design, remedial action implementation, remedial system maintenance and/or optimization, ecological and human health evaluations and assessments, and assisting NJDEP in addressing Immediate Environmental Concern (IEC) cases. In addition to the RI sites, H2M is also working with the NJDEP Bureau of Environmental Measurement and Site Assessment in conducting unknown source investigations (USI) to identify potential responsible parties of groundwater contamination that have impacted private wells in residential and commercial neighborhoods and municipal wellfields, some of which may have occurred several decades ago. Innovative field investigation techniques are being used for these RI and USI investigations consisting of portable field gas chromatographs (Field GC), portable X-Ray Fluorescence (XRF) analyzer, Cone Penetrometer (CPT), and membrane interface probe (MIP), which allow for a flexible and dynamic investigation approach that can be modified in the field based on real-time data generated during the field investigation program.



**"H2M has extensive experience in investigating, remediation, and implementing redevelopment strategies for environmentally impacted Brownfield sites"**

### PAAs/Phase I ESAs

The firm has completed hundreds of Environmental Site Assessments (ESAs), including Preliminary Assessments (PAs), Phase I and II ESAs, as well as design of follow-up remedial actions. The firm's site assessment experience includes completed projects for state, county, and local public entities, as well as lending institutions and private developers that involved the implementation of economic revitalization through federal and state Brownfield initiatives. These projects are conducted pursuant to the latest American Society for Testing and Materials (ASTM) standards, including the All Appropriate Inquiries (AAI) standards and the federal and New Jersey "innocent purchaser" land owner defense requirements pursuant to N.J.S.A. 58:10-23.11g(d)(2) of the Spill Compensation and Control Act, as part of the due diligence component of a property transaction. The team can also tailor the assessment as needed to meet the specific goals of the client and/or program. By satisfying the ASTM Property Assessment Standard and the USEPA All Appropriate Inquiries Rule for conducting environmental site assessments of real estate parcels, it enables the purchaser to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability (the "landowner liability protections"), a protection that would be critical to the purchaser.

Our staff includes certified inspectors who can identify asbestos-containing materials (ACMs), lead-based paint (LBP), and other hazardous materials in structures, should investigation of these non-ASTM components be required. The information provided by a Phase I ESA is often sufficient to allow transactions to proceed unchanged or to negotiate appropriate protections for buyers, sellers, or lenders. If further information about identified or suspected contamination is warranted, H2M can proceed to a carefully developed Phase II ESA, providing engineering and hydrogeologic expertise for site sampling, geophysical surveys, soil borings, and placement of monitoring wells or temporary well points. Based upon the results of the Phase II ESA, H2M can then assess the need for further investigation or remediation, evaluate remedial options and design, and implement effective remedial strategies based on future property use.

### Site Investigations/Phase II ESAs, Remedial Investigations

Throughout the years, the firm has completed hundreds of site investigations, remedial investigations, and remediation design and implementation programs at both publicly-owned and privately-owned sites. Many of the publicly-owned sites were Brownfield redevelopment projects with various federal, state, or local incentives. The multitude of projects performed at privately-owned sites were typically real estate transaction related. Whether these transactions were ISRA triggering events or not, the approach and implementation of environmental investigations and remediation were based on sound science and practical engineering, as well as environmental regulation and guidance.

On completion of the PA/Phase I ESA, H2M can proceed to a work plan and site investigation/Phase II ESA, providing engineering and hydrogeologic expertise for site sampling, geophysical surveys, soil borings, and placement of monitoring wells or temporary well points to determine whether concomitants are present at the property.

Environmental investigations conducted by H2M have included the installation of monitoring wells and soil borings in all types of geologic formations, including bedrock wells and installation of double-cased wells within confined aquifer systems. We have completed many complex groundwater investigations using



**"H2M has completed hundreds of site investigations, remedial investigation, and remediation design and implementation programs"**



downhole geophysics, packer testing, and in-well flow tracing, where warranted. These investigations have included the collection of representative samples of various media, including groundwater, surface water, soils, sediments, indoor air and sub-slab soil gas, and vapor intrusion (VI) monitoring. The team proactively plans work to not only investigate the source areas and complete horizontal and vertical delineation, but also to obtain the information needed to evaluate and determine the appropriate remedial solution for the site, whether the remedial solution consists of active systems (e.g., groundwater extraction, in-situ chemical oxidation, soil vapor extraction (SVE), air sparging, etc.) or passive remediation approaches (e.g., monitored natural attenuation, Classification Exception Areas (CEAs), deed notices).

We compile the information we gather into clear and concise regulatory submissions, including Site Investigation Reports (SIR); RI Workplans (RIW); Quality Assurance Project Plans (QAPPs); Remedial Investigation Reports (RIR); Feasibility Studies (FS); Remedial Alternatives Analyses (RAA); Remedial Action Workplans (RAW); Remedial Action Selection Reports (RASR); Remedial Action Reports (RAR); and Remedial Action Progress Reports (RAPR). H2M compiles the background information (site history, topography, geology, land use, hydrogeology, ecology, etc.) to lay the foundation for remedial decisions based on potentially complete and complete receptor pathways. If required, the firm has the personnel required with the expertise and experience in evaluation of structural issues; groundwater modeling; statistical evaluation; geophysical investigation; VI investigations; receptor and ecological evaluation (EE); development of CEA proposals; biennial certifications; permit applications; compliance with NJDEP public notification requirements; development of deed notices and issuance of Response Action Outcomes (RAOs).

In many cases, to facilitate the development or redevelopment of a property in a cost-effective and efficient manner, H2M has included a geotechnical evaluation at the site in conjunction with the Phase II ESA. The firm frequently works with Carlin-Simpson & Associates to provide geotechnical evaluation and reporting services as may be requested by the Authority.

H2M is certified with the NJDEP to perform Analyze Immediately Environmental Measurements for field analysis, as required of firms that perform field sampling and water monitoring by the NJDEP's Regulations Governing the Certifications of Laboratories and Environmental Measurements N.J.A.C 7:18, et. seq. (NJ Lab Certification Number 16052). As part of the certification program, H2M has in place a Quality Assurance and Standard Operating Procedures Manual to ensure all requirements are continually being met.

All elements of the environmental investigation, including sample collection, data management, data interpretation, development of conceptual site models, and preparation of workplans, reports, and regulatory submittals will be performed by H2M professional staff. Drilling, laboratory analysis, and geophysical surveys will be performed by subcontractors. Drilling and laboratory services will be bid on a project basis to secure best pricing and ensure qualified bidders for the scope of work.

#### **Licensed Site Remediation Professional (LSRP) Services**

Our NJ LSRPs focus on achieving compliance with regulatory requirements pursuant to NJ's Site Remediation Reform Act (SRRA) and Technical Requirements for Site Remediation (Tech Regs), with the goal of achieving site closure while protecting public health and safety and the environment. Our LSRPs and supporting environmental staff have extensive experience in environmental



**"At H2M, quality control is designed as a continual process that begins at project initiation, and continues through the planning, executive, monitoring/control, and project closeout phases"**

site management, including managing all aspects of linear construction project (LCP); UST management; PAs; SIs/RIs to delineate areas of concern (AOCs); RAAs to determine appropriate and cost-effective remedial actions; development of conceptual drawings through detailed remedial designs (RDs); permitting; preparation of contract documents for public bidding; construction oversight during remediation; and system operation and maintenance (O&M).

The firm can provide all services required for completion of RAOs, Remedial Action Permit Applications, CEAs, and Remedial Action Permits (soil and/or groundwater). The project LSRP will review all aspects of historic investigations as well as current site conditions to determine if a RAO is appropriate. H2M also assists clients in conducting biennial inspections, performing monitoring, and conducting evaluations to confirm that the remedy continues to be protective through submission of Remedial Action Protectiveness/Biennial Certifications by the LSRP.

Our approach in executing LSRP projects is for H2M's LSRP to be involved and maintain consistent involvement throughout all phases of a project they are overseeing, from inception through the issuance of a RAO. The LSRP will initially prepare a scope and project schedule to include critical milestone dates that take into account NJDEP regulatory and mandatory timeframes and will establish goals and objectives for the remediation project relative to applicable New Jersey rules and regulations prior to the onset of work.

### **Brownfield Cleanup Plans, Cost Estimates, and Site Remediation**

H2M has prepared numerous brownfield cleanup plans, cost estimates, and site remediation plans. We have conducted FS and RDs for sites that contained organic and inorganic contaminants in multiple media. Prior to initiating design, H2M's initial focus is on selecting the appropriate remedial technology to satisfy regulatory cleanup requirements for the responsible party, and the client's objectives for the current and future site use. We have more than 25 years of experience in RD for conventional and innovative technologies, including new installation and existing system upgrades. H2M soil remediation designs have included excavation and off-site disposal; in-situ stabilization; SVE; enhanced biodegradation; and MPE. Groundwater remediation projects have involved remedial technologies such as: pump-and-treat systems; in-situ chemical oxidation; MPE; air sparging; and augmented biochemical oxidation. Ex-situ treatment employed has included thermal and catalytic oxidation; air stripping; carbon adsorption; UV oxidation; chemical treatment; and removal of LNAPL and DNAPL.

We are experienced in preparing bid packages for soil and groundwater remediation for contractors for competitive bidding, including contract drawings; technical specifications; Engineering Reports (basis of design); Engineer's Cost Estimate; and a potential applicable permit list. The firm has also prepared permit applications for submission to regulatory agencies for approval. The design services will be prepared in strict conformance with the Authority's standards of quality based on the Design Manual, Procedures Manual, CAD Standards, Standard Drawings, Standard Specifications, and H2M's QA/QC program.

### **Hazardous Waste Removal and Disposal**

Historic industrial operations and site decontamination projects at Brownfields sites create waste that federal and state regulations deem hazardous. H2M's staff is experienced in conducting the sampling and coordinating analysis required for waste characterization, transportation, and disposal for Brownfields investigation and remediation projects.



**"Our NJ Licensed LSRPs focus on achieving compliance with regulatory requirements"**



The Resource Conservation and Recovery Act (RCRA) gives the USEPA the authority to control hazardous waste from the time of generation to disposal or “cradle to grave.” Because of this responsibility, selection of an appropriately registered and approved waste transporter and disposal facility is critical to reduce potential liability to the waste generator.

We are experienced in developing bid specifications for public bid to provide responsive and cost-effective bids for waste removal, transportation, and disposal, and confirming the qualifications, permits, and licenses presented by the transporters and disposal facilities.

On a recent Brownfields site in the Township of Montclair, two gasoline USTs were found and removed as part of site remediation. On opening these two storage tanks, the sand that had been used to inert the tanks were found to contain free product (leaded gasoline). The material was drummed, sampled for characterization, and the drums were labeled and staged on-site awaiting analytical results. The waste was classified as hazardous based on the lead content. H2M obtained a hazardous waste generator number for the site, obtained quotes for soil transportation and disposal off-site, and oversaw the removal of this material from the site.

#### **Building / Asbestos-Containing Material Surveys, Management, and Abatement**

We are experienced in conducting pre-demolition surveys for hazardous materials for our clients. H2M maintains fully licensed individuals in-house to perform all hazardous materials surveys involving asbestos, PCBs, and other materials. Our staff and our subconsultants maintain all required USEPA, NJDEP, and NJDOH licenses and/or certifications. For each project, a preliminary walkthrough assessment will be conducted to enable H2M to identify inaccessible or difficult to reach areas, determine equipment demands (e.g., ladders, scaffolding, etc.), assess the number and location of samples to be collected, and lastly, identify any specialized project requirements. Prior to commencing sampling, H2M then develops a sampling plan that summarizes the proposed scope of work for each building. We will incorporate into the sampling plan our preliminary walkthrough findings along with our review of all available survey records/historical reports and building plans. The firm will also speak to individuals familiar with the buildings and building access points in the development of our inspection and sampling approach.

Following completion of our preliminary walkthrough assessments and the preparation of our inspection and sampling plan, the H2M team will have in place a cost-effective strategy to conduct an in-depth hazardous materials survey for each building. Our approach for the full survey is as follows:

- A certified asbestos inspector will inspect the subject areas for suspect ACM and collect representative bulk samples for asbestos analyses. This may include analysis by Polarized Light Microscopy (PLM-Fri via 198.1) or Polarized Light Microscopy for Non-Friable Organically Bound Material (PLM-NOB via 198.6). Samples that test negative for asbestos content via PLM-NOB will be reported as “inconclusive” and re-analyzed via Transmission Electron Microscopy for Non-Friable Organically Bound Materials (TEM-NOB via 198.4). All asbestos findings will be documented in a letter report summarizing all suspected materials and testing results.
- A polychlorinated biphenyls (PCB) survey will be conducted by qualified H2M inspectors of all interior and exterior doors and windows. Bulk samples will be itemized, and materials identified and tested to determine the hazardous nature of the sealants. Possible PCB contamination in dielectric oils of facility transformers and machinery, as well as fluorescent light ballasts, will be



**"H2M is experienced in preparing bid packages for competitive bids for soil and groundwater remediation from contractors"**

## ► Firm Qualifications & Experience

accounted for in an inventory as assumed PCB containing. If noted “Non-PCB” on light ballasts or in oil filled electrical transformers, the firm will make proper notations in our inventory. The findings and testing results of the PCB survey will be incorporated into the final report, which will also comment on the recommended handling of these materials.

- A mercury, universal waste, and chemical storage survey will be conducted by H2M where an inventory will be made of mercury containing equipment, bulbs, thermostats, fluorescent fixtures, batteries, and pesticides. A chemical storage inventory will also be created during our inspections. All findings and inventory quantities and locations within the building will be summarized in the final report along with recommendations for handling, segregating, and recycling/disposal in accordance with applicable local, state, and federal regulations.

As described, a Final Hazardous Materials Report will be prepared which will summarize the assessments and findings. Abatement services will be bid on a project-specific basis to secure best pricing and ensure qualified bidders for the scope of work.

### **Lead-Based Paint Surveys, Management, and Abatement**

H2M has licensed personnel to conduct LBP surveys to determine the lead paint composition of painted finishes within the facility. The LBP survey will utilize an XRF instrument to test and screen for the presence of LBP on all suspected surfaces and/or structures where renovations could be potentially performed. The instrument will be fully calibrated and periodically recalibrated for accuracy and QC compliance checks, pursuant to the manufacturer’s recommendations. If the data is borderline (i.e., results close to 1.0 milligrams per square centimeter), then bulk chip samples will be collected to confirm the data. H2M will incorporate the LBP findings in a summary report. A hazard assessment will be conducted based on current conditions according to federal USEPA recommendations and accompanying control measures and include recommendations as a part of this survey.

### **Mold Survey**

H2M can perform assessments for mold growth, including visual inspections and the use of real-time, direct-reading instruments to measure the relative humidity within the impacted areas of the facility, as well as moisture content of accessible building materials. Following the assessments, H2M can prepare moisture mapping, conduct environmental sampling of the impacted areas, and preparation of mold remediation work plans for contractors. Mold samples will be collected, where deemed appropriate, and when collected, all samples will be submitted to a laboratory that is certified by the American Industrial Hygiene Association (AIHA).

### **Guano Survey**

H2M's properly trained environmental inspectors will identify and sample all areas of visible guano. H2M will develop a map of existing and heavily concentrated bundled accumulated areas that are more likely to transmit associated diseases (Histoplasmosis, Cryptococcosis, Psittacosis, Hantavirus, etc.).

### **Electronic Data Management and Laboratory Data Validation**

H2M uses Microsoft Excel and Access to manage data, as well as EarthSoft EQuIS™ database management software to streamline the organization and tabulation of laboratory data and EQuIS Collect™ is used to capture field data electronically. Analytical data is provided directly from the analytical laboratory's



**"H2M maintains fully licensed individuals in-house to perform all hazardous materials surveys"**

Laboratory Information Management System (LIMS) in EQuIS™ format; thereby minimizing data management errors created by manual manipulation of data. H2M can upload the required analytical data files to NJDEP per the September 2016 Site Remediation Program (SRP) Electronic Data Interchange (EDI) manual.

Field and laboratory data can be readily integrated through EQuIS™ with geographic information system (GIS), computer-aided drafting (CAD), and other software to create tables, figures, soil boring or well logs, contour maps, and other deliverables commonly used to exhibit environmental data and trends. By combining the analytical data gathered in the site to survey or GIS coordinates, management of data through EQuIS™ allows for immediate interpretation of results and provides a method to update a conceptual site model (CSM) while saving time and money by having all the project's data in one place. H2M can work with our client to obtain historic data from various laboratories used by previous consultants (sometimes available through Open Public Records Act requests to NJDEP), which then allows us to incorporate these historic data into a database for the site. Creating a site database with historic data is particularly useful for projects with routine sampling or monitoring events. Once committed to the database, the historic data from specific sampling points can be readily evaluated statistically and viewed for historic trends to support a proposal for a reduction in groundwater monitoring or site closure.

Field data are captured electronically using tablets, smart phones, or laptops and can be directly uploaded from the field into EarthSoft's EQuIS Collect™. The use of Collect™ streamlines data entry (e.g., soil boring log creation, monitoring well diagrams, groundwater sampling forms, etc.) by eliminating the need to 'handle' data multiple times before it reaches the presentation format. The data entered in the field is uploaded daily to become part of the project database for the preparation of report-ready soil boring logs and well diagrams, but also, with entry of the collected data in to the EQuIS project database it allows for streamlined (and less costly) development of supporting tables and figures for the report, such as potentiometric maps, cross sections, and (with the addition of laboratory data) contaminant isopleths. H2M has found that management of data through EQuIS™ allows for streamlined interpretation of results and provides a method to minimize transcription errors through direct entry, while allowing for expedited update of the data set and site conceptual model. This approach of managing and maintaining the site data in one database results in savings in time and money during data input and evaluation.

### Environmental Engineering and Design

H2M has conducted numerous FS and RD evaluations for sites that contained organic and inorganic contaminants in multiple media. Prior to initiating design, the firm's initial focus is on selecting the appropriate remedial technology to satisfy regulatory cleanup requirements for the responsible party, and the client's objectives for the current and future site use. We have more than 30 years of experience in RD for conventional and innovative technologies, including new installation and existing system upgrades. H2M soil remediation designs have included: excavation and off-site disposal; in-situ stabilization; SVE systems; SSDS; enhanced biodegradation; and Multi-Phase Extraction (MPE). Groundwater remediation projects have involved remedial technologies such as: pump-and-treat systems; in-situ chemical oxidation; MPE; air sparging; and augmented biochemical oxidation. Ex-situ treatments employed have included: thermal and catalytic oxidation; air stripping; carbon adsorption; UV-oxidation; chemical treatment; and removal of Light Non-Aqueous Phase Liquid (LNAPL) and Dense Non-Aqueous Phase Liquid (DNAPL).



**"Hazard assessments will be conducted based on current conditions according to federal USEPA recommendation"**



We are experienced in preparing bid packages for soil and groundwater remediation for contractors for competitive bidding, including contract drawings; technical specifications; Engineering Reports (basis of design); Engineer's Cost Estimate; and a potential applicable permit list. H2M can also assist in preparing permit applications for submission to regulatory agencies for approval.

## Other Additional Services

### Site Reuse Planning

H2M has extensive experience in the redevelopment planning process from the initial investigation, to the redevelopment plan, to assisting in implementation. Redevelopment planning requires special area expertise in preparing redevelopment studies and plans that satisfy the requirements of the Local Redevelopment and Housing Law (LRHL), utilizing tax incentives and maximizing funding through public funding sources such as the New Jersey Environmental Infrastructure Trust, and leveraging local knowledge. H2M has prepared numerous redevelopment studies that have resulted in successful area in need of redevelopment designations, plans, and reuse of sites.

H2M can assist in redevelopment studies and due diligence by undertaking preliminary site investigations. We have prepared zoning and environmental analyses and developed alternative concept plans/schematic designs for clients in urban, suburban, and rural contexts. Analyses and studies include written and visual deliverables with a focus on highest and best use outcomes. We can provide a detailed report tailored to our client's site needs and work with surveyors and engineers to develop preliminary and final site plans, upon request.

### Infrastructure Analyses

H2M is thoroughly experienced in the planning, performance, and delivery of infrastructure analyses, across the spectrum of various traditional civil and environmental management systems. Our original project history on this subject is derived from our long-standing appointments (some for multiple decades) as Engineer-of-Record and/or appointed Special Projects Engineer for various municipal utilities across the New Jersey/New York metropolitan region. H2M has assisted in the regular (typically annual) conditional assessment of a wide range of utility systems — specifically potable water, wastewater, and stormwater, in addition to networks of municipal roads and the management of public built infrastructure — such as parks, schools, libraries, and other major facilities. These annual analyses are integrated iteratively into living asset management planning documents, which (each year, in repetition) deliver an output of a revised list of accomplished improvements and a renewed set of capital improvements priorities.

These efforts were traditionally supported by a team of highly experienced professional surveyors and infrastructure inspectors. Both of these practices, H2M maintains sufficient staff and leadership to justify independent management structure and a comprehensive program of continuing education to ensure our experts are engaged in serving clients at the most current state of the art. In its modern incarnation, GIS has become the hallmark and most efficient framework of infrastructure analysis and overall management, given their universal accessibility and ease of integration with other forms of analytical software. H2M's various technical disciplines are supported actively by our GIS Department, including the management and regular update of client cloud-based data systems.



Our field efforts to assist clients with infrastructure analysis include detailed inspection and conditional analysis, material loss, and rate-of-loss assessments. Additionally, H2M is skilled at reviewing original design constraints against existing/observed functional capacities, comparing to current code and regulatory constraints, and producing projections to characterize the remaining capacities of existing infrastructure systems, compared to both current demands and predicted future loading within their service life horizons.

Our longstanding, multi-disciplined experience in design, permitting, and construction phase delivery allows us a unique insight into assisting clients with projecting cost estimates and construction scheduling for new projects, which may arise from the infrastructure evaluation process. This insight gives the most useful context to leaders who must weigh competing constraints in facilities management and project prioritization.

### Geophysical Investigations

Geophysical investigations can be conducted for a number of reasons, including surveys to assess whether there are potentially subsurface structures of concern present at a site or to conduct subsurface investigation more safely at a site.

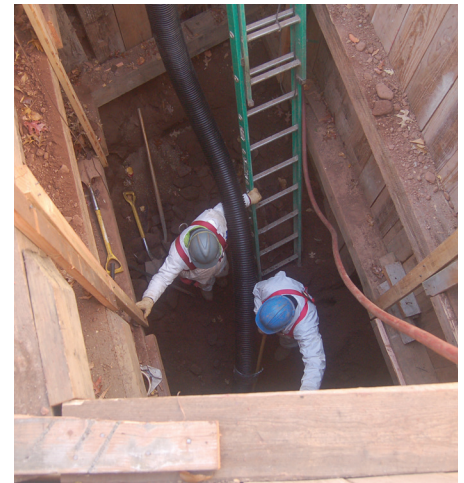
H2M's drilling subcontractor will request utility mark-outs for the areas being investigated through the NJ One Call service. Additionally, prior to initiating any intrusive field activities, a geophysical survey subcontractor will be engaged to clear locations for subsurface borings/temporary well points. The geophysical survey will consist of multiple methods including ground penetrating radar (GPR), electromagnetic (EM), and pipe locator scans.

Should the PA/Phase I ESA indicate that structures of concern (e.g., buried drums, USTs) were previously present or may be present at a property, the geophysical subcontractor will scope and complete a survey designed to assess the potential presence of these structures. The firm recently located two previously unknown gasoline USTs by reviewing Sanborn Fire Insurance Maps. While there was no surface expression of these storage tanks, H2M retained the services of a geophysical subcontractor to scan the area for these possible USTs. The two 1,000-gallon gasoline USTs were present where mapped and subsequently removed as part of site remediation.

Real-time data will be provided by the geophysical subcontractor with results for clearance of sampling locations. Detected utilities will be marked by the geophysical contractor on the ground using the colors established by the American Public Works Association. A report including an electronic scaled map will be prepared by the geophysical subcontractor detailing the detected features and any subsurface utilities present in the sampling locations.

### Geotechnical Services

In many cases, H2M has included a geotechnical evaluation at the site in concurrence with the Phase II ESA or other site investigation to facilitate the development or redevelopment of a property in a cost-effective and efficient manner. Our frequent subconsultant, Carlin-Simpson & Associates, can provide geotechnical evaluation and reporting services. Carlin-Simpson & Associates is a small business led by Principal Engineer, Robert B. Simpson, P.E., and their services include engineering, geology, and a soil laboratory to support geotechnical engineering projects.



**"Health and safety is a Core Value at H2M and provides a framework for our business operations"**

### Project Closure and Well Abandonment

H2M's vast experience in the closure of contaminated sites in New Jersey provides us with the expertise to factor in the required tasks to close out the site following remediation, including well and vapor/sparge point closure at project closeout. We routinely oversee closure of sampling points in accordance with New Jersey requirements, and provide reports (including photographs and required forms) to document these activities.

### Review and Evaluation of Permit Requirements

Preparation of successful permit applications requires early identification of the permits and agency jurisdictional authority applicable to a particular project in a specific geographic area (i.e., permitting constraints analysis). Permit requirements vary with project location, resources affected, and magnitude of the effect on the resources. There are multiple complex and overlapping environmental regulatory programs and agencies applicable to successful planning, design, and construction of projects in New Jersey. Permit review time can be lengthy depending on the type of approval requested. We have the expertise and experience to quickly identify and tabulate the applicable regulatory approvals and permits required for a project early in the life cycle of the project, to identify eligibility for exemptions from those permit requirements, and to obtain expedited agency approvals.

Through our in-house GIS resources, we can rapidly identify the types of permits and/or authorizations that will be required for a project such as NJDEP Freshwater Wetlands, Coastal Area Facility Review Act (CAFRA), United States Army Corps of Engineers (ACOE) Section 404/10 Wetlands and Waters (Nationwide Permit (NWP) or Individual Permit), New Jersey Highlands, New Jersey Pinelands, New Jersey Meadowlands, and FEMA/Flood Hazard Area Control Act. We have ready access to the most up to date information available. Identification of additional characteristics (e.g., Stream Water Quality Classification, State Planning Area, State and Federal data on endangered and threatened species, historic and archaeological resource data, etc.) can help to define the quality and location of the protected resource and further refine the identification of approvals and studies required for a project.

Based on the permits identified, H2M can provide a scope and approach for environmental and land use permitting that recommends task and efficiencies based on our experience with the regulating entities and agencies involved.

### CAD and GIS

A GIS allows for the gathering, managing, and analysis of raw data. When raw data may be overwhelming and difficult to examine for trends or strategies, GIS transforms the data and makes it much more understandable. As previously discussed, H2M uses geographic location data (gathered via either a GIS unit or through land survey) to connect analytical data, groundwater data, and other information to provide a complete geographic picture of site conditions that graphically depicts vertical and horizontal concentrations of contaminants of concern establish delineation, identify source areas, assess the impact of geology or subsurface conditions on fate, and transport of contaminants.

Accurate mapping is crucial to nearly every element of development of a Conceptual Site Model (CSM) for a site to describe or explain the conditions discovered during an environmental investigation or remediation. Our personnel are experts in using GIS/CAD mapping to provide data visualizations in a map format that can be used to visually communicate ideas or trends that may not be easily seen in raw data.

**"H2M uses geographic location data to connect analytical data, providing a more complete geographic picture of site conditions"**





## Health and Safety

The firm is committed to protecting the health and safety of our employees, our clients' employees, the public, and our subcontractors. Our Health and Safety (H&S) Program goal is to maintain a safety mindset to ensure the safety of site personnel, the public, and the environment on all projects on a day-to-day basis. H&S is a Core Value at H2M and provides a framework for our business operations.

Our experience working with a multitude of different clients on municipal, commercial, industrial, and residential properties has given us a clear understanding of the policies and procedures needed to ensure the protection of workers and Authority property. H2M subcontractors are required to ensure that their H&S provisions are at least equivalent to those measures assumed by H2M.

H2M maintains the highest commitment to H&S, which is conveyed to staff through routine training and daily communications. Our employees' awareness and attention to health and safety conditions is apparent throughout all phases of our work, whether in the office or in the field. This continued emphasis on H&S has resulted in an exemplary OSHA safety record.

H2M has a comprehensive program that is dynamic and continually evolves to ensure the health and safety of our employees. One part of H2M's commitment to safety is participation in a third-party Health and Safety contractor and supplier management service (i.e., ISNetwork), which has approved H2M as a vendor.

### H2M Training & Medical Surveillance

All H2M environmental field staff that are engaged in activities that potentially expose them to hazardous substances and health hazards that may be encountered on environmental assignments have completed 40 hours of H&S training with an annual 8-hour refresher training, as required by OSHA. In addition, our staff have also completed OSHA 10-hour or 30-hour Construction Safety training.

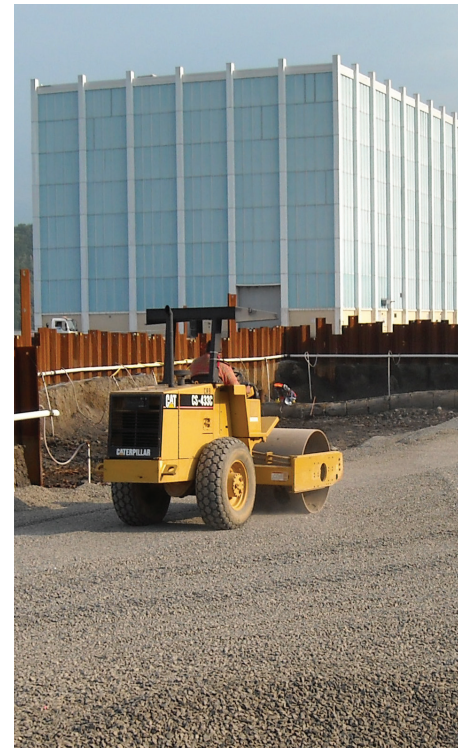
A medical surveillance program has been established for H2M staff involved in fieldwork that may potentially expose them to hazardous substances. Further, selected management personnel have supervisory H&S training. Training certificates for field personnel are available to the Authority on request.

### Environmental Health & Safety Plans

H2M maintains a corporate Health and Safety Plan (HASP). We will prepare site-specific OSHA-compliant HASPs for projects. The HASP will include a discussion of the planned scope of work relative to the site setting and include a hazard analysis, which identifies and evaluates potential site hazards that may be encountered during field activities on the project. The HASP will also include the identification of exposure criteria, lay out any necessary monitoring requirements, and use of personnel protective equipment.

### Public Notification and Community Relations

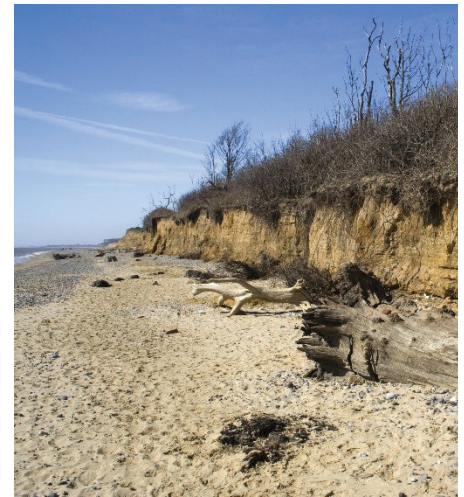
H2M routinely supports our clients in meeting the requirements and needs for public notification and community relations on environmental projects. We are experienced in meeting the NJDEP SRP Public Notification & Outreach Guidance requirements and Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-1.7) for public notifications signs and letters, preparation of legal notices for posting in local newspapers, as well as



**"H2M can assist in redevelopment studies and due diligence by undertaking preliminary site investigations"**

preparation of Fact Sheets for distribution to community stakeholders. We support our clients in meeting their obligation to respond to public inquiries (including media inquiries).

Our experience includes working with our clients to present the proposed investigation activities, results of investigation, proposed remedial approaches, and results of remediation. We understand the importance of public outreach to keep stakeholders updated and informed with site developments and can assist the Authority in all aspects of public outreach. The firm uses a generous mix of visual and narrative formats to bring various concepts to life so that all stakeholders can more readily understand technical issues. Notices, handouts, and presentations are developed in multiple languages, where needed, and translators are used during public meetings and poster board sessions to aid in public engagement, where warranted. Large-scale color graphics and maps, photographs, photo simulations, and graphic renderings are often integrated into the process. H2M's graphic artists are particularly strong in their ability to deliver excellent presentations using MS Power Point®, Adobe Photoshop®, and ESRI's ARCGIS® products.



**"Our field efforts to assist clients with infrastructure analysis include detailed inspection and conditional analysis"**



Examples of specific project experience follow this page.





# Brownfield Remediation



## Housing Authority of Bergen County

Dumont, NJ

**Construction Cost:** N/A

### SERVICES PROVIDED

LSRP Services  
Preliminary Assessment  
Remedial Investigation

Preparation of Bid Specs  
Construction Oversight



H2M was retained in 2012 by the Housing Authority of Bergen County to conduct a Preliminary Assessment of the David F. Roche Apartments in Dumont, NJ. It was suspected that the property was impacted by fill material based on a historic fill investigation of the adjacent property. H2M was subsequently retained to conduct a remedial investigation at the site and the presence of fill material was confirmed.

Through the completion of the Preliminary Assessment and Site Investigation, the results confirmed that contamination (polynuclear aromatic hydrocarbons [PAHs], pesticides and metals) was present in the soils and groundwater at the property.

After evaluating the potential risk to residents at the site, a remedial action was selected. It focused on NJDEP presumptive remedy of the removal of surface soil and the institution of a Deed Notice and classification exception area. H2M determined that remediation of subsurface soil and the groundwater was not necessary to protect the public from these contaminated media since most of the property was developed around a large apartment building where large areas were paved and no groundwater use was present at the site or in the surrounding area.

The implementation of the presumptive remedy for exposed surface soil (landscaped areas) included the removal of up to two feet of contaminated soil at the surface; the placement of a demarcation barrier; and the restoration and/or raising grade of site using certified clean backfill and topsoil. Soils impacted with historic fill were excavated and removed to the extent possible to create a clean buffer to prevent human contact with the PAHs, pesticides and metal contaminants present in the surface soil.

Following approval from the client and the Licensed Site Remediation Professional (LSRP) of the proposed remedial alternative, H2M developed a Remedial Action Work Plan. Additional tasks include the preparation of a Deed Notice, Remedial Action Permit, Remedial Action Report and Classification Exception Area (CEA).

H2M was responsible for the preparation of formal design plans and a construction specification for public bid. The design package included: design drawings; construction specifications; and the Housing Authority's required solicitation documents. H2M assisted with the issuance of the bid documents and reviewed all bid submittals.

Once the project was awarded to a remediation contractor, H2M provided construction administration and construction inspection services throughout the project. H2M applied for and obtained permits from the Bergen County Soil Conservation District for the project work.



# Asbestos Survey

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## Housing Authority of Bergen County

Bergen County, NJ

**Construction Cost:** N/A

### SERVICES PROVIDED

Asbestos Inspection  
Asbestos Sampling  
Sample Management

Laboratory Coordination  
Field Measurements



H2M conducted an asbestos survey in conjunction with accessibility upgrades planned for residential dwelling units at the Mahwah Public Housing and Ramsey Public Housing as per the Housing Authority of Bergen County (HABC)

H2M performed initial inspections of the dwelling units for the presence of asbestos containing materials (ACM) which might be disturbed during renovations for handicap accessibility. Materials were identified and sampled for asbestos analyses were conducted using polarized light microscopy (PLM) and by transmission electron microscopy (TEM) for non-friable,

organically bound materials. As part of our facility inspection, the locations, condition, and amount of potential ACM were recorded.

Upon receipt of the asbestos analyses, H2M prepared a limited asbestos survey report to support the planned renovations.



# Environmental Monitoring



## Newark Housing Authority

Newark, NJ

**Construction Cost:** \$45,600

### SERVICES PROVIDED

Preliminary Site Assessment

Site Investigation

Phase I Environmental Site Assessment

Soil and Groundwater Investigation

Geophysical Investigation

NJEDA HDSRF PA/SI/RI Grant

UST Investigation

LSRP Services

Historic Fill



H2M was retained by the Newark Housing Authority to conduct a preliminary assessment and site investigation report for 171-183 Clinton Avenue in Newark, NJ.

The Newark Housing Authority acquired the property at 171-183 Clinton Avenue in Newark, NJ, with the intention of redevelopment as it had been vacant for decades. Prior to redevelopment, the Newark Housing Authority wanted to conduct environmental due diligence on the property. H2M completed a Phase I Environmental Site Assessment (ESA) on the property, along with a geophysical survey of the site. The findings of the Phase I ESA identified several recognized environmental conditions (REC), including a potential underground storage tank (UST). The firm also found historic use of the site as an auto repair shop, potential historic fill, and historic operations on surrounding properties.

After completion of the Phase I ESA, the Newark Housing Authority asked H2M for assistance in applying for New Jersey Economic Development Agency (NJEDA) grants and conducting follow-up investigation on the RECs. As part of the second phase and the grant application process, the Phase I ESA was converted into a preliminary assessment and site investigation.

The site investigation consisted of collecting seven soil borings, four of them were converted to temporary wells to collect groundwater samples. Sample results and evaluations of the soil borings identified the presence of historic fill throughout the site. Prior to conducting soil borings, a second geophysical survey was conducted. The geophysical survey did not identify a potential UST and identified metallic anomalies in the same area. Based on the geophysical information, H2M conducted test pits in the area and found buried debris and did not identify a UST.

The firm also prepared the grant application, handled LSRP-related tasks, working with the Authority to further evaluate the development of the property by providing cost estimates.

# Due Diligence for Boiler Replacement



## New York City Housing Authority

Bronx, NY

**Construction Cost:** N/A

### SERVICES PROVIDED

Community Air  
Monitoring Plan  
(CAMP)  
Due Diligence  
Geology/Hydrogeology  
Hazardous Waste  
Characterization &  
Management  
Industrial Hygiene  
Investigation &  
Abatement

Phase I/II Site Assessments  
Regulatory Program Support  
Remedial Design &  
Construction  
Remedial Investigation &  
Design  
Soil & Groundwater  
Characterization  
Environmental Site Analysis



H2M designed a domestic hot water (DHW) boiler replacement at the Bronx River Houses and the adjoining Bronx River Addition Houses campuses, which consists of 11 residential buildings and a community center building. The project also requires the removal of the existing main boiler plant equipment, including three fuel oil aboveground storage tanks (ASTs).

H2M's site investigation and remediation environmental professionals conducted environmental site assessments (ESAs), and developed a Remedial Action Plan (RAP), and Construction Health and Safety Plan (CHASP). H2M's Phase I ESA provided the site history and was instrumental in outlining an appropriate Phase II ESA Work Plan and HASP that were prepared by H2M and approved by the New York City Department of Environmental Protection (NYCDEP).

In coordination with our engineering efforts to assist in the replacement of the boiler systems, H2M's environmental team conducted a limited sampling survey and prepared a summary report documenting the presence of asbestos containing materials (ACM), lead based paint (LBP), polychlorinated biphenyls (PCBs) and universal waste. Environmental surveys focused on the central boiler plant, domestic water heating stations, tank rooms, gas rooms, and meter rooms in each of the 12 buildings of the development.

The Phase I ESA identified an open New York State Department of Environmental Conservation (NYSDEC) spill case. During the Phase I walkthrough, a leak from one of the ASTs was identified, which the New York City Housing Authority (NYCHA) was able to immediately address and contain the release upon notification to prevent further impacts to the surrounding area. The Phase II ESA focused on pre-clearing soil borings, and collection and analyses of soil samples in preparation for the closure of the ASTs

and in areas to be disturbed by the future natural gas routings throughout the campuses to the 12 individual buildings.

Based on soil impacts identified above and NYSDEC soil cleanup objectives during the Phase II, H2M developed a RAP and CHASP to outline procedures to mitigate and manage contaminated soils during subsurface disturbance associated with the proposed boiler replacement activities, which will be performed by NYCHA's contractors. Contaminated soil management will minimize exposure to the onsite residents, neighboring community, and contractors both during construction activities and after the project is completed. Furthermore, offsite disposal of contaminated soil will also be appropriately managed in accordance with city, state, and federal requirements.

While the initial survey for ACM, LBP, PCBs and universal waste is complete, we are still active on the project to determine the next steps and how best to move forward based on the findings. This includes development of abatement and remediation specifications along with determining necessary pre-construction and construction abatement/remediation air or project monitoring. Clearance documentation is still ongoing.

H2M will continue to provide support to NYCHA as we assist with identifying qualified boiler replacement contractors and during implementation of the RAP and CHASP.



# Petroleum Spill Sites Engineering Analysis

## New York City Housing Authority

Queens, NY

**Construction Cost:** \$200,000

### SERVICES PROVIDED

Remedial Investigation and  
Design

Water and Wastewater  
Treatment

Due Diligence

Property Transaction Support

Phase I/II Site Assessments

Toxic and Hazardous  
Management

Storage Tank Management

Facility Auditing

Regulatory Compliance

Site Characterization and  
Investigation

Remedial Design and  
Construction



The New York City Housing Authority (NYCHA) has numerous open New York State Department of Environmental Conservation (NYSDEC) petroleum spills at their properties which H2M was tasked with assessing to determine the necessary activities to facilitate spill closure in a timely and cost-effective manner.

H2M was responsible for analyzing the performance of groundwater drawdown and mop/skimmer remediation systems at 20+ housing complexes. H2M reviewed various technical and summary reports to determine the historical nature of each spill site and develop a conceptual site model (CSM). The CSM was utilized to determine the factors influencing spill cleanup effectiveness, specifically geologic/hydrogeologic conditions, contaminant sources, contamination fate and transport mechanisms, and remedial designs and effectiveness. To further assess remedial strategies, H2M analyzed current and historical groundwater and product thickness from the monitoring well and recovery well networks and by correlating free product thickness trends to remedial system data. Recommendations and findings were provided in quarterly progress reports reviewed and approved by the NYSDEC.

H2M was aware that NYCHA's fiscal budget to address the spills was limited; therefore, recommendations such as the installation of new product recovery systems, recovery wells, monitoring wells, and recovery well pump manipulation were provided in a manner to ensure maximization of product recovery potential and decreased the projected time to spill remediation and closure.

When recommendations were implemented, product recovery at the spill sites was shown to increase. H2M's recommendations were successful in facilitating the closure of approximately 10 of the open spills thus far; also providing the client with an overall reduction in expenses to address historical and long term spills.

# Brownfield Cleanup



## Phipps Houses

Far Rockaway, NY

**Construction Cost:** N/A

### SERVICES PROVIDED

Brownfield Remediation  
Community Air Monitoring Plan  
Hazardous Waste  
Characterization &  
Management

Phase I/II Site Assessments  
Remedial Investigation &  
Design  
Site Characterization &  
Investigation



## H2M provided environmental remediation services for a development in Far Rockaway as part of the New York State Brownfield Cleanup Program (BCP).

The 4.06-acre underutilized site comprised a partially-vacated shopping plaza containing an active dry cleaner, dilapidated two-story residential buildings, and vacant land that was transformed into an affordable housing complex with commercial storefronts, a common outdoor area, creation of a pedestrian walkway, community facility spaces, and sub-grade parking for tenants.

In 2016, H2M performed a Phase I Environmental Site Assessment (ESA) that revealed that the existing dry cleaner could be detrimental to the environment; further historic reviews indicated usage by the Long Island Rail Road (LIRR) and other commercial and industrial uses that could have contributed to contamination of the site. Upon completion of a Phase II ESA, H2M recommended that the client enroll in the BCP.

The client entered into a Brownfield Cleanup Agreement with the New York State Department of Environmental Conservation (NYSDEC), which prepared a Remedial Action Work Plan (RAWP) based on H2M's investigations to address site contamination.

The NYSDEC prepared and approved a Remedial Action Work Plan (RAWP) that called for the removal of contaminated soils and collection of confirmatory end-point soil samples. Following RAWP approval, H2M collected waste characterization soil samples to determine appropriate disposal facilities and segregate soils contaminated by tetrachloroethene, commonly used in the dry-cleaning process.

Remedial activities began in 2019, with the removal of approximately 88,366 tons of soil for remedial and construction services, with approximately 58,114 identified as contaminated and removed. H2M directed the soil excavation and tracked the outgoing trucks to ensure that the soils went to the proper facilities. In addition to off-site disposal, H2M received NYSDEC approval for the reuse of select on-site soils, reducing soil disposal costs. In accordance with the RAWP, H2M also provided community air monitoring program (CAMP) services for the upwind and downwind air for particulate matter released during intrusive activities.

During development, H2M performed a delineation of the contaminated soils beneath the former dry cleaner and was able to determine the extent of the decontamination. As a result, the development received a "contained-in" ruling for the soils from NYSDEC, allowing the client to send out soils as non-hazardous materials and ultimately save money on soil removal.

Following laboratory results indicating a successful soil excavation and remediation, the NYSDEC issued a Certificate of Completion in 2021. The development has since been completed, yielding three new mixed-use buildings with retail units, affordable housing units, common outdoor and courtyard areas, a pedestrian walkway, and a community facility space.



# Underground Storage Tank Investigation

H 2  
M

## Wall Township

Wall Township, NJ

**Construction Cost:** \$60,000

### SERVICES PROVIDED

Due Diligence

Site Closure and Reporting

Storage Tank Management

Geology/Hydrogeology

Soil and Groundwater  
Characterization

Regulatory Program  
Support



H2M provided LSRP services for the investigation of eight pump stations in Wall Township, New Jersey.

The investigations were conducted to determine if previously removed underground storage tanks (USTs) had discharged.

H2M coordinated and oversaw geophysical investigations and soil boring/temporary well installations at the eight pump stations to characterize subsurface conditions in the vicinity of the former UST systems.

A Site Investigation Report (SIR) and an Unrestricted Use Response Action Outcome (RAO) was issued for each site.

H2M also assisted the Township with addressing outstanding financial obligation issues with regard to unpaid UST registration fees in order to close each case.





# Preliminary Assessment / Site Investigations

## Borough of Carlstadt

Carlstadt, NJ

**Construction Cost:** N/A

### SERVICES PROVIDED

Brownfield Assessment  
Preliminary Assessment

Site Investigation  
HDSRF Grants



The Borough of Carlstadt needed environmental services for the investigation and remediation of 16 properties that had either been foreclosed on or the Borough held a tax lien on the properties. We assisted the Borough in the preparation and submission of applications to the NJDEA and NJDEP for HDSRF grants to fund the investigation of these properties. The Borough was awarded and closed on grant funding of more than \$900,000 for the 16 sites.

This project was conducted concurrently with the NJMC Paterson Plank Road Brownfield Redevelopment Area Project. We were able to supplement the EPA's Brownfield Assessment Demonstration Pilot grant funding using Hazardous Discharge Site Remediation Fund (HDSRF) grant funds to expand the scope of the investigation to include the additional 16 additional Borough-owned properties also located within the Paterson Plank Road Brownfield Redevelopment Area. Leveraging HDSRF grants allowed for these additional 16 properties to be

evaluated for environmental impacts that otherwise would not have been included in the initial phase of the USEPA Brownfields assessment Pilot.

H2M completed Preliminary Assessments (PAs) on all 16 properties. Resulting from the PA's and after discussions with the NJDEP, No Further Action Letters have been issued by the NJDEP for these 16 properties thereby clearing the way for redevelopment of these Brownfield properties.

# Phase I ESA, Asbestos, Lead Paint and Radon Survey



## Montclair State University

Little Falls, NJ

**Construction Cost:** N/A

### SERVICES PROVIDED

Phase I Environmental Site Assessment

Property Title Search

Preliminary Assessment

Asbestos Inspection and Sampling

Lead Based Paint Inspections

Radon Testing

Restoration and Repairs

Sample Management

Project Coordination

Health and Safety Meeting

Field Measurements



H2M was engaged to conduct a Phase I Environmental Site Assessment/Preliminary Assessment (Phase I ESA/PA) of the Floyd Hall Arena at Montclair State University. The Phase I ESA/PA, which included an asbestos, lead-based paint and radon survey, was conducted as part of due diligence prior to the University assuming operations of Floyd Hall Arena.

The Phase I ESA was completed according to ASTM 1527-13. The PA was completed per NJDEP Technical Requirements for Site Remediation (TRSR). A property chain of title and historic documents were reviewed, and a site visit was completed. The results were summarized in a report that included components required under both the Phase I ESA standard and NJDEP TRSR for PAs.

H2M also performed an asbestos survey, lead based paint survey, and radon survey at the Arena. The 65,000 square foot building houses two full-size ice-skating rinks and associated mechanical spaces, office space, locker rooms, storage space, a personal training center/strength and conditioning weight room, a concession stand, and retail space for ice hockey and skating gear.

H2M conducted a site health and safety meeting initiating of inspection and sampling activities. H2M then conducted an inspection of the two-story Floyd Hall Arena including interior and exterior building materials for the potential presence of asbestos containing materials (ACM). Suspect building materials were identified during the inspection and sampled for asbestos

analyses. Materials sampled included floor tiles, mastics, baseboards, ceiling tiles, miscellaneous flooring compounds, caulking, glazing, insulation, pipe insulation, and wall boards.

Asbestos analyses were conducted using polarized light microscopy (PLM) and by transmission electron microscopy (TEM) for non-friable, organically bound materials. As part of our facility inspection, the locations, condition, and estimated quantities of potential ACM were recorded.

H2M subcontracted and coordinated with a third-party company to provide lead and radon inspection services. A handheld x-ray fluorescent analyzer was utilized by the certified lead inspector for lead-based paint inspections and radon canisters were deployed throughout the facility. Testing for lead-based paint was performed on painted surfaces including walls, doors, molding, columns, and stair stringers.

H2M prepared an asbestos, lead-based paint, and radon survey report illustrating the results of the sampling performed at the Floyd Hall Arena.



# Redevelopment Project

## New Jersey Meadowlands Commission

Lyndhurst, NJ

**Construction Cost:** \$150,000

### SERVICES PROVIDED

Brownfield Redevelopment

Technical Work Group Participation

Public Outreach Support

Regional Background Assessment

Preliminary Assessments

USEPA Brownfields Assessment Grant Program

NJDEP Hazardous Discharge Site Remediation Fund



H2M was retained by the New Jersey Meadowlands Commission (NJMC) to provide technical environmental expertise and public outreach support for the Paterson Plank Road Redevelopment Area (PPRRA) Pilot Program.

The Paterson Plank Road Redevelopment Area (PPRRA) is approximately 210 acres in size and is comprised of 148 parcels under 78 different owners. The area is made up of a mix of industrial and commercial land use, wetlands and other ecologically sensitive areas, that overall are either considered to be under utilized or are simply abandoned. In addition, three Federal Superfund sites are present within the extents or adjacent to the study area, further stigma the entire area as having significant contamination issues.

As a member of the PPRRA pilot program, H2M worked directly with the USEPA, NJDEP, NJIT and local municipal government and county economic development officials to prioritize areas within the redevelopment area to be characterized environmentally. This work was completed under NJ Economic Development Authority (NJEDA) and USEPA Brownfield Assessment Grant Funding

The characterization approach developed by the PPRRA generated high quality data and information that was successful in

reducing the negative environmental stigmatism associated with the area, thereby advancing potential redevelopment prospects. In addition, H2M provided support in the identification, application and receipt of supplemental funding sources to the pilot group. As part of our scope, H2M conducted field reviews on various known contaminated sites across the study area through USEPA and NJDEP to provide insight into regional issues and conducted Preliminary Assessments on twenty-eight (28) other properties that were developed with various types of industrial uses.

Following completion of the Preliminary Assessment activities, H2M assisted the NJMC in public outreach efforts in order to keep area stakeholders informed of the redevelopment process and to maintain stakeholder support of the redevelopment initiative. This was accomplished through several public meetings and information sessions held during various stages of the investigative process.



# Site Redevelopment Project

## ITT Industries Inc Avionics Division

Clifton, NY

**Construction Cost:** N/A

### SERVICES PROVIDED

Preliminary Assessment Site Investigation

Remedial Investigation/  
Feasibility Study (RI/FS)  
Design, Construction, and  
Continued Operation of  
the On-site Groundwater  
Treatment Facility

Negotiation with Regulatory  
Agencies for Approval of  
Remedial Approach and No  
Further Action with Respect  
to Site Soils

Remedial Design Services



H2M was retained by ITT Industries (ITT) to conduct Preliminary Assessments (PAs), remedial investigations, and remedial actions in accordance with a Memorandum of Agreement (MOA) executed with the New Jersey Department of Environment Protection (NJDEP).

Concurrent with these investigations, ITT began subdividing and selling off unused portions of their property to private developers, to be redeveloped for commercial and residential uses. This required that the environmental liabilities of the industrial site be satisfactorily addressed in a timely manner to allow for the property transactions to proceed.

H2M performed Preliminary Assessments (PAs) associated with each Industrial Site Recovery Act (ISRA) triggering event, and a multistage remedial investigation and feasibility study (RI/FS) associated with the main production facility. Two sources of groundwater contamination and 22 areas of potential environmental concern (AOC) were evaluated through file searches, interviews and environmental sampling. Remedial investigation required the installation and monitoring of the shallow unconfined aquifer, intermediate confined overburden aquifer and deeper confined bedrock aquifer.

Based on an evaluation of technologies, and site development and economic considerations, an Interim Remedial Measure (IRM) was implemented to provide hydraulic control of the

dissolved contaminant plumes. The IRM involved groundwater extraction, treatment and recharge. H2M designed, constructed and continues to operate the groundwater extraction treatment and recharge system.

As part of the sale and commercial redevelopment, and in accordance with the contract of sale, H2M expedited site investigation activities and successfully obtained a No Further Action (NFA) determination with respect to site soils for the portions of the property being sold in order to expedite property transaction and site redevelopment. These parcels were subsequently subdivided and developed for both commercial and residential use by different developers. The facades of the buildings retained by ITT have since been redesigned to blend with the architecture and feel of the new developments.

Through implementation of these projects, various underutilized portions of the ITT complex were returned to beneficial reuse creating employment opportunities and providing economic stimulation to the surrounding area.

# Licensed Site Remediation Professional Services



## Monmouth County Division of Engineering and Traffic Safety

Monmouth County, NJ

**Construction Cost:** N/A

### SERVICES PROVIDED

Remedial Investigation

Soil and Groundwater Characterization

Vapor Intrusion Mitigation

Property Transaction Support

Due Diligence

Facility Auditing and Regulatory Compliance

SPCC and Contingency Planning



H2M was retained for on-call LSRP services for various County owned properties in different phases of the remediation process.

Working for Monmouth County's Engineering Department, H2M has conducted remedial phase investigations for various properties previously owned, currently owned, and/or operated by the County. The remedial investigations, conducted under the oversight of an H2M LSRP, have included monitoring well installation and groundwater sampling for delineation of contaminants intended to demonstrate that natural degradation is occurring as well as to maintain compliance with established Classification Exception Area (CEA) and Remedial Action Permit (RAP) requirements. H2M has assisted Monmouth County with the coordination of off-site access to facilitate groundwater sampling on privately-owned, municipally-owned, and federally-owned properties.

As part of the on-call task, H2M conducted a vapor intrusion investigation, including indoor air sampling and sub-slab soil gas sampling of a County-owned building to assist in the County in addressing odor complaints. Mitigation of potential source of odors included basement slab removal, installation of a vapor barrier and sub-slab depressurization system, HVAC system modifications and the use of air scrubbers. H2M met with and

coordinated with Monmouth County and their contractors throughout mitigation process to document the progress and ensure milestones were met.

H2M was also tasked with assisting Monmouth County with due diligence associated with property acquisitions. H2M performed Preliminary Assessments (PA) in accordance with NJDEP regulations on residential properties to determine if potentially contaminated Areas of Concern were present. H2M performed these PAs within the requested timeframe and budget allowing for the transaction to proceed.

As part of a property acquisition, H2M's LSRP oversaw closure of a residential heating oil tank for the County. In addition, during a linear construction project, LSRP UST closure services were provided for heating oil tank located in a roadway. H2M also provides UST compliance inspections as required by NJDEP for the highway district maintenance facilities and the reclamation center. SPCC compliance training for County employees. H2M also prepared SPCC Plans for County offices, the County correctional facility, and sheriff's office and police academy.



# Brownfield Remediation



## Blackacre Partners OPS, LLC

Yonkers, NY

**Construction Cost:** \$8.3 million

### SERVICES PROVIDED

Engineer of Record

Work Plan Preparation

Pre-design Investigations

Aquifer Testing

Remedial Design

Remedial Construction Oversight

Sediment Characterization

Soil and Sediment Remediation

Remediation, Construction Completion, and Certification Reports

Site Management Plan



H2M was retained by Blackacre Partners, OPS, LLC to conduct pre-design investigations and served in the role of Engineer of Record overseeing the remedial actions specified in a March 2005 Record of Decision (ROD) for the former BICC Cables Brownfield Site in Yonkers, NY.

The former BICC Cables Site is comprised of 30 acres (15 upland) located on the eastern shore of the Hudson River in the City of Yonkers. The site had been owned and operated by several companies and used since the late 1800s for the manufacture of jacketed electric cable. A Remedial Investigation identified elevated levels of PCBs and lead, and to a lesser degree, volatile organic compounds throughout the site, and in sediments in the Hudson River.

Upon demolishing site buildings totaling over 200,000 square feet, H2M was first tasked with removing a 1,100 linear foot subsurface storm drain system, below building soils impacted with PCBs and lead and any "grossly contaminated" soils encountered during the removal of floor slabs and other below grade structures. H2M conducted pre-excavation soil borings to better delineate the extent of below building soils requiring excavation, prepared a Work Plan and provided full-time inspections services throughout the removal of the concrete trench system and all PCB and lead impacted sediments and soils. Approximately 1,500 cubic yards

of impacted sediments and soils were removed from below the trench system and 3,000 cubic yards of impacted soils were removed from 11 below building hot spots. Over 200 post-excavation endpoint samples were collected and analyzed to confirm that all impacted soils were removed. Upon completing the work, H2M prepared a Remediation Report documenting the remedial activities.

One of the larger elements of the site remediation program was the North Yard Dig which involved the excavation and disposal of soils impacted with elevated levels of PCBs, lead and VOCs from a 1.7 acre area in the northern portion of the site. Prior to initiating the remedial design for the North Yard Dig, H2M prepared and implemented a Pre-Design Work Plan to better define the area and depth extent of soil requiring excavation. The Pre-Design Investigation included 28 soil borings and six test pits conducted across the North Yard Area. H2M also conducted a tidal influence study and aquifer pump tests to assess hydraulic properties necessary for the design of a dewatering system.

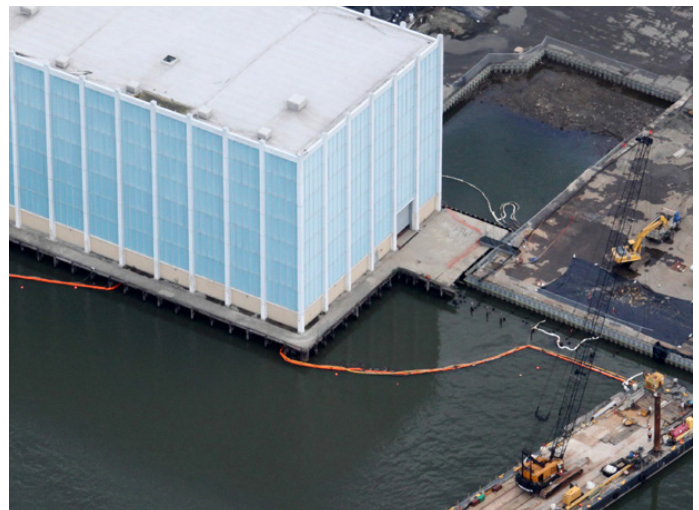


Upon completing the pre-design investigations, design plans and technical specifications for the remedial action were prepared. Design plans included an excavation plan denoting the areas where impacted soils would be excavated and the required excavation depths. Design elements also included a sheeting/shoring system and dewatering system. Based on data from the RI and the Pre-Design Investigation, the remedial design plans segregated excavation areas by the waste classification for material disposal. Materials excavated were classified as non-hazardous, non-TSCA soils/debris; RCRA hazardous, non-TSCA soils/debris; non-hazardous TSCA regulated soils/debris; and RCRA hazardous, TSCA regulated soils/debris based on concentrations of PCBs and other contaminants in the soil.

H2M assisted Blackacre Partners in soliciting bids. Upon award of the contract, H2M provided full-time inspection services throughout the soil excavation program. H2M was responsible for all coordination and communication between the contractor, NYSDEC and USEPA, conducted all post-excavation endpoint sampling and reviewed all waste manifests for the excavated materials. Over 40,000 tons of impacted soils and debris were excavated and disposed of as part of the North Yard Dig, including 30,000 tons of TSCA regulated PCB waste. Upon completing all the remedial work, H2M prepared a Construction Completion Report for submission to NYSDEC documenting the remedial action.

H2M served as Engineer of Record for the remediation of sediments adjacent to the site. Mechanical dredging was performed in open areas in conjunction with deployment of silt curtains and turbidity monitoring. Dredging under the EPRI Building was performed with diver-assisted hydraulic dredging equipment into geo-tubes for dewatering. Safeguards were developed to minimize over-excavation and sediment suspension into the water column. The dredged sediment was dewatered either with the use of lined berms and mixed with kiln cement, or through geo-tubes with the water processed through an on-site water treatment system prior to discharge to the river under a SPDES permit. Post-dredge samples were collected to confirm sufficient sediment removal prior to backfilling. Final dredge depths for ranged from 1 to 9 feet bsg. Following completion of sediment dredging, a Sediment Construction Completion and Certification Report was prepared for submission to NYSDEC.

A Site Management Plan (SMP) was prepared to detail procedures required to manage contamination remaining at the site after completion of the Remedial Action through the use of engineering and institutional controls, performance of periodic inspections, and submittal of Periodic Review Reports.



# Remedial Investigation – Former Keuffel & Esser Site



## New Jersey Dept. of Environmental Protection Bureau of Site Management

Trenton, NJ

**Construction Cost:** \$1.3 million

### SERVICES PROVIDED

Work Plan, QAPP, & HASP  
Preparation  
Fact Sheet Preparation  
Community Relations  
Remedial Investigation  
Geophysical Survey  
Sampling & Analytical Testing  
Third-Party Data Validation  
Soil investigation  
On- & Off-site Groundwater  
Classification Exception Area

Fate & Transport Modeling  
On- & Off-site Vapor  
Intrusion  
Immediate Environmental  
Concern  
Receptor Evaluation  
Membrane-Interface Probe  
(MIP)  
Hydraulic-Profiling Tool  
(HiPT)  
Door-to-Door Well Canvass  
Potable Well Sampling

H2M was retained under a multi-year environmental term contract for the NJDEP Division of Publicly Funded Site Remediation to complete a remedial investigation for the former Keuffel & Esser (K&E) Site in Cape May County, NJ.

The main operations consisted of electroplating (nickel plating, acid etching), painting, and printing. The Site had also been operated as a hosiery and knitting mill. K&E manufactured surveying measuring tapes, slide rules, drafting machines, equipment/supplies and tools. The operations also included a machine shop and a spray painting room. Solvents, including trichloroethene (TCE), toluene, xylenes, and 1,1,1-trichloroethane (1,1,1-TCA) were used to clean metal parts and paint equipment.

The purpose of the RI was to evaluate volatile organic compounds (VOCs), primarily TCE in groundwater at concentrations above the New Jersey Department of Environmental Protection (NJDEP's) Class IIA Groundwater Quality Standards (GWQS); to evaluate conditions on-site to locate the source of contaminants in soil or groundwater; assess and delineate the off-site contaminant plume; and evaluate potential receptors, including the potential for vapor intrusion. H2M reviewed previous documents and OPRA files and prepared a Background Investigation Report, site-specific work plan, Quality Assurance Project Plan (QAPP), and Health and Safety Plan (HASP) prior to start of the project. Contractor bid specifications were prepared for the remedial investigation (RI) work and contracts were administered by H2M. H2M also prepared the Fact Sheet for the site and assisted NJDEP with public outreach.

A geophysical survey was completed prior to drilling. Soil borings and temporary groundwater sampling points (GWSP) were advanced on-site in over 20 areas of concern (AOCs) inside and outside the building. The AOCs investigated included: former Plating and Production Areas; former underground collection tank; sumps; roof drains; USTs; waste storage; and historic dumping areas. Downhole screening for VOCs was completed using a direct push membrane-interface probe (MIP) and downhole hydraulic characteristics were evaluated using a hydraulic profiling tool (HPT). Geoprobe screen-point samplers were advanced to collect samples to complete a vertical groundwater profile. The 0.5-mile long groundwater plume



extended to multiple water-bearing zones and was assessed using a network of 36 wells downgradient of the Site. In addition, door-to-door well canvassing was conducted, and potable wells identified were sampled.

Based on soil and groundwater sampling, an on-site and off-site (residential) vapor intrusion investigation was completed and an Immediate Environmental Concern (IEC) was identified on-site. The results required the immediate design, pilot testing, and installation of a facility-wide sub-slab depressurization system to mitigate the IEC.

Following the completion of field investigation activities, the information and data generated was summarized in the Remedial Investigation Report (RIR). The RIR included soil, groundwater, potable water, and vapor intrusion sampling contaminant fate, geophysical survey, data validation, tabulated and mapped data, conclusions, and recommendations.

Contaminant Fate and transport was evaluated for the TCE and nickel groundwater plume and a Classification Exception Area (CEA) with ongoing periodic groundwater monitoring was proposed for the Site.

H2M was also responsible for preparation of monthly progress reports and women, minority, and small-business enterprise reporting for this project.



# Remediation of Contaminated Soils

H2M

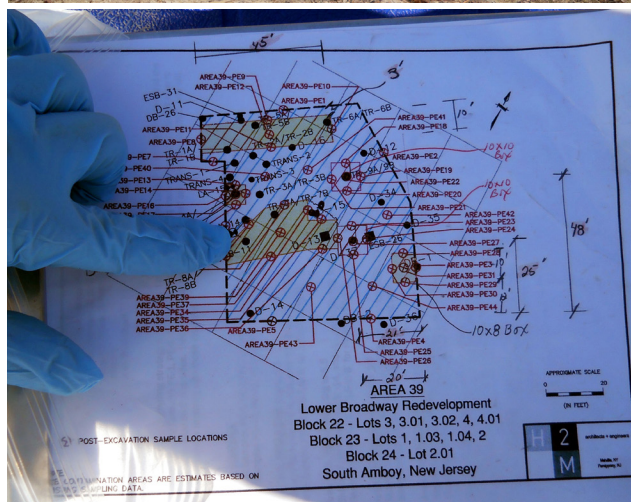
## Peron Development/South Amboy II, LLC

South Amboy, NJ

**Construction Cost:** \$380,000

### SERVICES PROVIDED

Environmental Remediation	Remediation Oversight
Brownfields Remediation	Hazardous Waste Disposal
Brownfields Redevelopment	Hazardous Waste Management
Transit Oriented Development	



Over the past 20 years, the South Amboy, NJ community has quietly transformed itself from a dying urban center into a forward-looking, vibrant community.

Peron Development/South Amboy II, LLC wanted to redevelop a 15-acre parcel in the Lower Broadway neighborhood. H2M was retained to oversee the remediation of contaminated soils. The contamination was attributed to the use of contaminated fill at the property, and discrete discharges due to the property's commercial and industrial history.

Contaminants included polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), petroleum hydrocarbons, metals, pesticides, and polycyclic aromatic hydrocarbons (PAHs). The impacted soil remediation involved the removal, characterization, and disposal of rusted drum carcasses; building debris including

concrete floors, foundations, and rail spurs; and abandoned underground storage tanks. Over 20,000 cubic yards of soil were excavated, field screened, and transported off site or re-used. H2M also provided analysis and post-excavation sampling to verify the effectiveness of the remediation.

The newly remediated property will become a skilled nursing facility, 86 townhouses, and a community YMCA. Converting the run down, blighted property into a pedestrian-friendly mixed use development adds another piece to South Amboy's fresh, transit-oriented community.



# Remedial Investigation – Former Ronson Metals Site



## New Jersey Dept. of Environmental Protection Bureau of Site Management

Newark, NJ

**Construction Cost:** \$1.85 million

### SERVICES PROVIDED

Work Plan, QAPP, & HASP  
Preparation

Fact Sheet Preparation

Community Relations  
Support

Public Meeting Presentation

Site Access Negotiation

Remedial Investigation

Geophysical Survey

Sampling & Analytical Testing

Field Gas Chromatograph

On-site Soil Investigation

Groundwater Investigation

Waste Management and  
Disposal

Property Boundary and  
Topographic Survey

Third-Party Data Validation

Receptor Evaluation

Fate & Transport Modeling

Data Management and  
Visualization

Remedial Investigation  
Reporting



H2M conducted a Phase 2 investigation of potential source areas on 19 residential properties, including the investigation of soils, clay caps, and groundwater sampling from temporary wells.

The Former Ronson Metals Corporation manufactured cigarette lighters and other related products. In 1989, the company closed its Newark facility on Manufacturers Place. Twelve areas of soil contamination, as well as groundwater contamination, were identified. The primary contaminant at the site is trichloroethene (TCE). Starting in 1999, ownership of the property transferred. A clay cap was placed on portions of the site, and eventually 19 homes and 5 commercial/industrial buildings were built on the Former Ronson Metals site. In late 2012, NJDEP began a vapor intrusion investigation of the site, including sampling indoor air at 66 properties. Sub-slab depressurization systems were installed at 28 properties to address elevated TCE concentrations. Once Immediate Environmental Concerns (IECs) were addressed, the remedial investigation was undertaken.

## Remedial Investigation

Prior to each mobilization, H2M reviewed previous documents and files and prepared a Background Investigation Report, site-specific work plan, Quality Assurance Project Plans (QAPP), and Health and Safety Plans (HASPs). H2M prepared contractor bid specifications and contracts were administered by H2M. H2M also prepared the Fact Sheet in the predominant community languages (English and Portuguese) to communicate the proposed activities.

Three phases of investigation were undertaken: Phase 1 included a soil gas investigation and a groundwater investigation throughout the Manufacturer's Place neighborhood through the

installation of off-site soil gas sampling points and monitoring wells and collection of soil gas and groundwater samples to assess and delineate the groundwater plume. Based on these results, H2M conducted a Phase 2 investigation of potential source areas on 19 residential properties, including the investigation of soils, clay caps, and groundwater sampling from temporary wells. Investigation was accomplished using a small hand-truck mounted drilling rig due to the small footprint of side alleys and back yards at this site that abuts a railroad line. The Phase 3 investigation included investigation of soil and groundwater six commercial buildings and warehouses. Based on the identification of source areas during Phase 3, additional regional groundwater investigation is planned

Prior to each phase, a geophysical survey was completed to locate utilities. Each proposed location was surveyed prior to drilling and pre-clearing of each hole was completed by hand digging to five feet. Special constraints during this investigation included the limitations of space both on the residential and commercial properties, as well as throughout the neighborhood. Drilling was completed using direct push Geoprobe drilling and collection of groundwater samples at multiple depths using a SP-16 Groundwater Sampler. Due to the lack of space and client-owned property, H2M organized and managed the daily pickup of drums of investigation wastes by a contractor for off-site storage prior to the receipt of analytical data.

During this investigation, H2M utilized a FROG-4000 portable field gas chromatograph (GC) to identify TCE and its degradation products in real time. These data collected in real time were used to allow for a flexible and dynamic investigation approach. H2M field staff were able to adjust the drilling program to more efficiently collect the data needed to complete the on-site remedial investigation. These data were confirmed with laboratory-analyzed samples.

## Data Validation, Management, and Reporting

All data were managed through H2M's environmental database program, EarthSoft EQulS. Data generated by the laboratory were produced in H2M's required EQulS electronic data deliverable (EDD) format so that data could be managed efficiently, and manual data entry was eliminated to avoid data transcription errors. On receipt of the laboratory data, the third-party validator completed data validation via USEPA's Standard Operating Procedures (SOPs) and the validation qualifiers were added to the EDD files. The validated EDD files were then committed to H2M's EarthSoft EQulS database to provide a comprehensive record of the data collected during the three investigation phases. Reporting and mapping was completed through GIS, CADD, and EarthSoft's EnviroInsite. These systems were used to create tables, figures, boring or well logs, contour maps and other deliverables to exhibit environmental data and trends. Management of data through EQulS™ allowed for immediate interpretation of results and provided a method to update the conceptual site model on collection of multiple rounds of soil and groundwater data while saving time and money by having all the project's data readily available in one place.

## Reporting and Community Relations

Following the completion of field investigation activities, the information and data generated was summarized in comprehensive Remedial Investigation Reports (RIR). Each RIR included soil, soil gas, groundwater, assessment of groundwater and geological conditions, geophysical survey, data validation, and contaminant fate and transport. The report included maps and tables to graphically depict the site conceptual site model (CSM) and clearly demonstrate site conditions and provide conclusions and recommendations for future investigation and remediation.

Public meetings were held with the community prior to each phase of the RI field investigation to present the proposed work plan approach. Upon completion of each phase of the RI, the results were presented to the community via public meetings and H2M conducted regular status updates to community leaders and the Ironbound Community Corporation. Portuguese interpreters were used during the public meetings to promote community engagement.

H2M was also responsible for preparation of monthly progress reports and women, minority, and small-business enterprise reporting for this project. H2M met all goals related to disadvantaged business utilization on this project.





# Remedial Investigation, Remedial Design, Remedial Action



## New Jersey Dept. of Environmental Protection Bureau of Site Management

Trenton, NJ

**Construction Cost:** N/A

### SERVICES PROVIDED

Preliminary Assessment  
Background Investigation  
Workplan, Health & Safety  
Plan, QAPP  
Geophysical Investigation  
Remedial Investigation  
Soil and Groundwater  
Investigation  
Soil and Groundwater  
Screening Using a Portable  
Field GC, Membrane  
Interface-Probe Screening  
& XRF  
UST Investigation/Closure  
Waste Management

Vapor Intrusion  
Investigation & Mitigation  
Receptor Evaluation  
Conceptual Site Model  
Development  
Remedial Alternative  
Evaluation & Selection  
Pre-Design Investigation  
Remediation Design  
Remediation Oversight  
LSRP Services  
Community Relations/  
Public Meetings

Since 2014, H2M has been working under multiple environmental term contracts with the NJDEP Division of Publicly Funded Site Remediation. H2M is engaged by NJDEP under a term contract to perform remedial investigations, remedial design, and provide remediation oversight services at publicly funded sites throughout the State of New Jersey.

Project assignments range in size and complexity and include former dump sites, dry cleaning facilities, industrial manufacturing/commercial facilities, chemical bulk storage facilities and abandoned gas stations and automotive service center facilities. Activities conducted under this contract include preliminary assessments, site investigations, remedial investigations, fieldwork sampling/testing, remedial action alternative evaluations, remedial design, remedial action implementation, remedial system maintenance and/or optimization, ecological and human health evaluations and assessments, and assisting NJDEP in addressing Immediate Environmental Concern (IEC) cases. H2M has provided LSRP services at multiple sites where case closure in the form of a Response Action Outcome (RAO) was required.

In addition to the RI sites, we are also working with the NJDEP Bureau of Environmental Measurements and Site Assessment in conducting unknown source investigations (USI) to identify potential responsible parties of groundwater contamination that have impacted private wells in residential and commercial neighborhoods and municipal wellfields, some of which may have occurred several decades ago. Innovative field investigation techniques are being used for these RI and USI investigations consisting of portable field gas chromatographs (Field GC) and membrane interface probe (MIP), which allow for a flexible and dynamic investigation approach that can be field modified based on real-time data generated during the field investigation program.

Under the environmental term contract, H2M has worked on over 45 sites located throughout the state of New Jersey for the NJDEP and the NJ Division of Property Management and Construction.



Investigation and remediation tasks have ranged in complexity from soil and groundwater characterization to remedial design and implementation. In addition to typical soil and groundwater investigations, H2M has installed soil borings within structures with limited access to investigate soil and potential soil vapor impacts; conducted indoor air sampling to investigate potential vapor intrusion pathways; installed monitoring wells in overburden and bedrock aquifers for horizontal and vertical delineation; conducted fate and transport analysis of groundwater contaminants, and completed Receptor Evaluations to identify sensitive receptors.

H2M's responsibilities have also included developing remedial alternative analyses to assist with decision making, conducting Pre-Design Investigations to support the selected remedial design, and preparation of remedial phase reports (SI, RI, RAWP, RAR). H2M has assisted the NJDEP by identifying permits required to implement the selected remedial actions as well as identifying potential waste streams and disposal requirements for both IDW and RCRA waste.

H2M has attended public meetings with the NJDEP and presented information pertaining to ongoing investigations and remediations that involve multiple properties and property owners. H2M has prepared access agreements and corresponded with private property owners and local municipalities where access was required to conduct investigation and remediation activities.

# Asbestos Survey



## Gabrielli Truck Sales

Ridgefield Park, NJ

**Construction Cost:** N/A

### SERVICES PROVIDED

Asbestos Inspection  
Asbestos Sampling  
Sample Management

Project Coordination  
Health and Safety Meetings  
Field Measurements

H2M conducted a site health and safety to identify potential hazards and keep staff safe onsite for Gabrielli Truck Sales' building addition of a multi-service bay building.

H2M was engaged by Gabrielli Truck Sales to design an addition of a multi-service bay building with wash bays and truck hoists and conversion of a portion of the building to retail space and for parts storage.

In preparation of the design plans for the building upgrades, H2M conducted an inspection of the 10,000 square foot facility for the potential presence of asbestos containing materials (ACM) in the areas that might be disturbed during planned renovation or demolition activities

Prior to initiating sampling activities, H2M conducted a site health and safety to identify potential hazards and keep staff safe onsite. H2M then performed an ACM inspection of the two-story building including all interior and exterior building materials and roofing materials within the areas of planned renovation. Suspect building materials were identified and sampled for asbestos analyses. Materials sampled included floor tiles, mastics, roofing tar, roofing patches, flashing, baseboards, ceiling tiles, miscellaneous flooring compounds, caulking, glazing, and insulation.

Asbestos analysis was performed via polarized light microscopy (PLM) and transmission electron microscopy (TEM) for non-friable, organically bound materials. Bulk samples were collected throughout the offices, warehouses, storage rooms, and roof areas of the building. Several of the samples were confirmed positive (less than 1%) for asbestos. As part of our facility inspection, the locations, condition, and estimated quantities of ACM were recorded by the field sampling team.

Upon receipt of the asbestos analyses, H2M prepared an asbestos survey report presenting the confirmed ACM and quantities identified in the two-story commercial building in order to prepare Gabrielli Trucking Sales for the demolition and renovation activities. H2M also developed plans and technical specifications for asbestos abatement which was included in the design for the renovation work.





# Asbestos Survey and Perimeter Air Monitoring



## Manasquan River Regional Sewage Authority

Farmingdale, NJ

**Construction Cost:** N/A

### SERVICES PROVIDED

Asbestos Inspection  
Asbestos Sampling  
Sample Management  
Project Coordination

Health and Safety Meetings  
Project Engineering and Oversight  
Downwind Perimeter Air Monitoring



H2M conducted an inspection survey for the presence of asbestos containing materials (ACM) in conjunction with proposed roof replacements at various Manasquan River Regional Sewage Authority (MRRSA) buildings at its Headquarters campus in Farmingdale, NJ.

The buildings at the Headquarters that received roof replacements included the administration building, connecting breezeway, old garage, new garage, and treatment building. In addition, there were plans to replace the administration building's HVAC systems, ceilings, and interior lights.

Prior to initiating sampling activities, H2M conducted a site health and safety inspection to identify potential hazards and keep staff safe onsite. The inspection included exterior roofing materials to characterize representative materials for the potential of presence of ACM. Materials were identified and properly sampled for asbestos analyses and included roofing tar, roofing patches, roofing insulation, ceiling tiles, and wall board mastics.

Asbestos analyses were conducted using polarized light microscopy (PLM) and by transmission electron microscopy (TEM) for non-friable, organically bound materials. As part of our facility inspection, the locations condition, and estimated quantities of potential ACM were recorded.

Upon receipt of the asbestos analyses, the asbestos survey report was completed and submitted to the client to illustrate which roofing materials were to be managed as ACM during roof replacement activities.

Following the asbestos sampling, H2M was then retained to perform perimeter air monitoring during the removal of asbestos roofing materials. H2M personnel collected air samples at locations downwind of abatement activities being performed by the roofing contractor to ensure abatement activities do not result in excessive airborne asbestos emissions. Air samples were submitted for analysis via phase contrast microscopy (PCM).

Upon the receipt of asbestos air analysis, the perimeter air monitoring report was completed to document downwind conditions during roof replacement activities.



# Redevelopment Project



## Garfield Redevelopment Agency

Garfield, NJ

**Construction Cost:** N/A

### SERVICES PROVIDED

Reviewed Environmental Investigation Reports

Conducted Meetings to Inform the Public of Cleanup Efforts Being Undertaken by Owners

Held Visioning Sessions to Solicit Community Input on Future Site Redevelopment Scenarios

Prepared Redevelopment Plan



H2M served the Garfield Redevelopment Agency (GRA), as their lead professional providing environmental engineering and planning services, to assist them in evaluating environmental site issues, formulating Redevelopment Plans and Redevelopment Agreements, and identifying and inventorying additional inactive and under-utilized properties located within the City for the revitalization.

The Kalama site is 6.83 acres in size and is located along River Drive in the City of Garfield. The site was designated in 2002 as a redevelopment area in accordance with the New Jersey Local Redevelopment and Housing Law. The property is currently owned by BF Goodrich and is the location of the former Kalama Chemical plant, dating back to 1891. The facility manufactured chemicals used in pharmaceuticals, cosmetics, food packaging and preservatives, synthetic flavorings, printing inks, dyestuffs, and other products. Seven buildings were located on the site until 1999, when four of the buildings were demolished. The site is on the NJDEP's Known Contaminated Sites List and had undergone environmental remediation by El Paso Energy Corporation, a former operator.

H2M reviewed the environmental issues for the site and remediation goals established by these parties. The site posed some complex environmental issues for redevelopment. In all, there were over 30 Areas of Concern identified at the site. Furthermore, investigation and cleanup is complicated by the presence of contaminants that are not the typical volatile or semi-volatile organics often observed at industrial sites. Soil contamination at the site was primarily associated with historic fill. Most of the soil contamination associated with former

industrial operations was remediated. A source area with free phase product still exists beneath the site. A remedial excavation was planned for removal of soil in the area of the free phase product. In addition, a soil-vapor extraction system with an air curtain system was utilized for remediation of groundwater.

A Redevelopment Plan was prepared by H2M for the Kalama site. The plan considered the environmental impacts of the property in selecting the types of uses and establishing design standards for the site. Additionally, H2M worked with BF Goodrich and El Paso Energy to ensure that appropriate remediation goals for the site were established and met, to enable redevelopment of the property for mix commercial, office, recreational and educational land uses, and related activities and public spaces. Cleanup standards and timeframes for cleanup were discussed with the parties to ensure cleanup efforts were expeditiously completed enabling site redevelopment activities to commence on all or a portion of the property. Additionally, architectural design standards and landscape buffers were established for buildings and structures that house remediation equipment, and include requirements for locating these systems to minimize their visual and functional impact to the development.



# Redevelopment Planning Services



## Various Municipal Clients

Various Locations, NJ

**Construction Cost:** N/A

### SERVICES PROVIDED

Redevelopment Study

Redevelopment Plans

Concept Plans

Public Visioning

Property Database

Mobile Data Collection

Public Hearings



H2M has extensive experience in the redevelopment planning process from initial investigation to the redevelopment plan, and then in assisting municipalities with its implementation.

Redevelopment planning requires special area expertise in preparing redevelopment studies and plans that satisfy the requirements of the local and state planning laws, use community engagement strategies and visioning, as well as leveraging local knowledge of the community.

We are experts in the practice of Planning and Zoning and the Municipal Land Use Law (MLUL), the Local Redevelopment and Housing Law (LRHL), and redevelopment case law. Our licensed planners have prepared numerous redevelopment studies that have resulted in successful area in need of redevelopment designations and understand that they need to be able to withstand challenge in a post-Gallenthin era. H2M is able to guide municipalities through the entire redevelopment process, whether working in large areas or single site properties, and from area designation to drafting redevelopment RFPs and selecting the right developers. We have an excellent reputation in the planning field and have prepared numerous plans, including the New Jersey Planning Officials' award-winning Lincoln Park Redevelopment Plan. Our redevelopment planning experience includes the following studies and plans:

## Current and Past Projects

- Boonton Plane Street Redevelopment Study
- City of Passaic Market Street Redevelopment Plan
- Garwood South Avenue Redevelopment Study
- Glen Ridge Baldwin Street Redevelopment Study and Plan
- Glen Ridge/Montclair Mountainside Hospital Redevelopment Study and Plan
- Leonia Fort Lee Road and Grand Avenue Redevelopment Study
- Leonia Willow Tree Redevelopment Plan
- Little Falls Singac Redevelopment Study and Plan
- Little Falls Overlook Redevelopment Study
- Little Falls Paterson Avenue Redevelopment Study and Plan
- Little Falls Laundry Site Redevelopment Study
- Newark West Ward MNI Redevelopment Study
- Newark Lincoln Park Redevelopment Plan
- Plainfield Muhlenberg Hospital Redevelopment Study
- Plainfield South Avenue Gateway Redevelopment Plan
- Rockaway Borough Franklin Avenue Redevelopment Study
- West Orange Eagle Rock Commercial Area Redevelopment Study

# Development Review Services



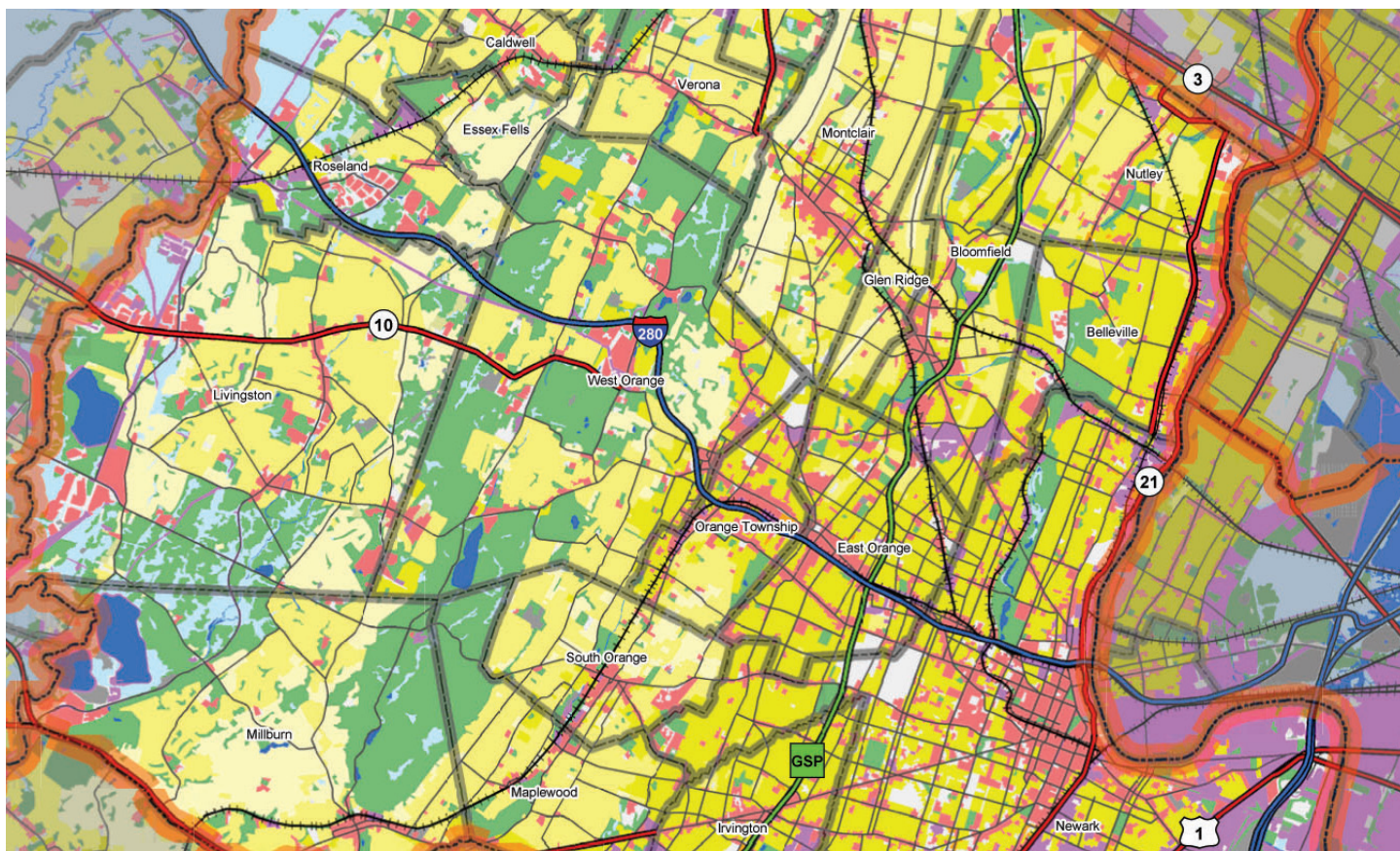
## Various Municipal Clients

Construction Cost: N/A

SERVICES  
PROVIDED

Professional Reports  
Board Hearings

Meetings with Applicants  
Track Ordinance Issues



H2M's planners and engineers have extensive experience providing development application review services to Planning Boards, Zoning Boards, and Combined Land Use Boards throughout New Jersey.

H2M appointments have included communities as diverse as the Town of Boonton, City of Hoboken, Little Falls Township, Bloomingdale Borough, Pompton Lakes Borough, City of Plainfield, Livingston Township, Rockaway Borough, City of Hackensack, Lafayette Borough, Lodi Borough, and Cranford Township.

Our planners and engineers have a thorough understanding of the Municipal Land Use Law (MLUL), New Jersey's environmental regulations, relevant case law, and the application review process for site plans, subdivisions, interpretations, appeals, and variance applications. We thoroughly review all plans, reports and application materials, and will meet with applicants and their professionals as needed. We work closely with Board secretaries throughout the process to ensure required timeliness are being met as well.

Our reports comprehensively address the full range of variances and site issues so that Board Members are duly informed before making their decisions. To better understand the application and site history, we visit the site, analyze historical aerial imagery, review the Master Plan, and other planning documents, review prior site resolutions, consult the Zoning Officer and do what is necessary to get the "full picture." We have architects, civil engineers, landscape architects, and urban designers who can contribute to our reviews if needed.

We take pride in the communities we work for and look to ensure that the end result is a development application that is best for the municipality. Throughout our appointments, we continuously keep track of issues related to local zoning ordinances and make recommendations as to updates and amendments.





## Key Personnel

### Project Manager

The Project Manager who will be assigned to coordinate all projects with the Authority will be **Jerold Blustein, LSRP**. Mr. Blustein has over 20 years of experience in the environmental industry including management of projects ranging in complexity from UST investigations to large-scale manufactured gas plant (MGP) remediation, including both soil and groundwater matrices. His responsibilities have included workplan preparation, client/regulatory interaction, budget management, contractor oversight and technical reporting (PAR, SI, RI, RAWP, and RAR) in accordance with New Jersey regulations. Mr. Blustein is the current Program Manager for the NJDEP multi-year Remedial Investigation, Remedial Design, and Remedial Action contract. His responsibilities include coordinating staff for multiple projects, correspondence and coordination with the NJDEP and other regulatory agencies with jurisdiction in the project area as well as contract, budget management, and invoicing in accordance with State protocols.

### Additional Project Team Members

Serving as Principal-in-Charge will be **Charles A. Martello, P.E., LSRP**. Mr. Martello is empowered to commit the resources of H2M to meet all project objectives. He oversees all environmental projects in the firm's New Jersey office. His management responsibilities have included a diverse mix of remedial investigation, design, and construction projects. Mr. Martello is also a Licensed Site Remediation Professional and Professional Engineer licensed in the State of New Jersey.

**Jeffrey P. Lynes, LSRP**, will also provide services for this contract. He has over 20 years of experience in New Jersey performing RIs, vapor intrusion investigations, remedial evaluation, bid document preparation, implementing remedial actions, and managing GIS and environmental databases. Mr. Lynes has direct experience managing projects for government agencies, including scoping and budgeting, negotiation, budget/schedule tracking, project execution, and completion.

Senior technical staff who will support Authority projects will include **Jason W. Potosnak, LSRP**. Mr. Potosnak has more than 10 years of experience in the field of environmental and hazardous waste management covering a broad range of projects, including environmental site characterization, remediation, groundwater contaminant transport evaluations, vapor intrusion studies, and receptor evaluations. He is also H2M's EQulS™ database and workflow manager. Mr. Potosnak uses EQulS™ and their affiliated suite of software to streamline the collection, management, and presentation of field and laboratory data for the generation of tables, graphs, and charts used for data interpretation.

### Additional Support Staff

In addition to our key personnel, H2M maintains a diverse team of geologists, hydrogeologists, environmental scientists, engineers, and planners who can be assigned based on the specific technical and cost-effective needs of each project. We are committed to deploying the most appropriate staff to meet the Authority's goals efficiently. Additional team members who may be called upon include **David R. Marsden, Nicholas G. Haverilla, Joseph McNanna, Michael A. Nicosia, Richard B. Schommer, Jr., P.E., P.P., CME, Tomas Matias, P.E., CME, Cary F. Hilla, E.I.T., Alan P. Hilla, Jr., P.E., P.P., CME, Sanyogita Chavan, P.P., AICP, and Carmela R. Schommer, L.L.A.**

### Professionals Include

**NJ Licensed Professional Engineers (PEs)**

**NJ Licensed Site Remediation Professionals (LSRPs)**

**NJDEP Certified Subsurface Evaluators**

**NJDEP Underground Tank Closure Professionals**

**OSHA 40-Hour Health & Safety (29 CFR 1910.120)**

**OSHA 30-Hour Construction Safety (29 CFR 1926)**

**LEED Accredited Professionals**

**Certified Hazardous Materials Managers (CHMMs)**

**Professional Geologists (PGs) & Certified Professional Geologists (CPG)**

**Certified Groundwater Professionals (CGWPs)**

**AHERA Asbestos Management Planners, Inspectors & Project Designers**



Resumes for the above referenced personnel are provided following this page.





# Charles A. Martello P.E., LSRP

Executive Vice President, Principal Office Director



Mr. Martello has over 30 years of experience managing projects of varying levels of complexity for clients. His experience was initially in the field of environmental engineering including remedial investigation and design, indoor air quality investigations, microbial remediation, groundwater and wastewater monitoring programs, evaluating air quality data from industrial facilities for compliance audits and permitting, participating in hydrogeologic investigation and feasibility studies resulting in the selection of design criteria for groundwater remediation studies, facility design for compliance with building regulatory agencies, and conducting environmental site assessments of commercial and industrial facilities.

## Selected project experience

- Ocean County College HVAC System Feasibility Study; Toms River, NJ: Principal-in-Charge for a feasibility and cost study for the conversion of the HVAC heat pump to a variable air volume (VAV) system in the Gateway Building at Ocean County College. The five story, 87,000 square foot Gateway Building experienced operational issues, such as geothermal well field performance, heat pump unit performance, and pumping issues. The project team made recommendations for modifications, additions, and improvements to the heat pump system to bring it up to the original design operating conditions.
- Numerous Insurance Carriers Site Investigation, Remediation, and Expert Testimony; Various Locations, United States: Project Manager providing consultation to insurance companies on various environmental commercial insurance claims in the continental United States. This involves the review and evaluation of environmental site investigation, delineation activities and development of remediation measures. Conducts historical record reviews to determine site activities and potential impacts from offsite sources or other occupants of the property. Provides recommendations with respect to proposed activities and budgets for investigations and remediations. Develops order of magnitude cost exposure budget to assist in the establishment of reserves on projects.
- Various Insurance Companies Underground Storage Tank Remediation; NY, NJ, PA, CT, MA: Management of underground storage tank remediation projects both for residential and commercial sites on behalf of numerous insurance companies. Performed subsurface soil and groundwater investigations to determine third party impact, evaluate tank system historical operations and design, as well as implement soil and groundwater remedies to address impacts resulting from leaking tank systems.
- New Jersey Turnpike Authority (NJTA) On-Call Environmental and Engineering Services Contract; Various Locations, NJ: Former LSRP of Record responsible for an environmental and engineering services contract for the operation, maintenance, and compliance monitoring of a treatment system and monitoring well network at NJTA Service Area 4N. The source area treatment system included air sparging and soil vapor extraction. The primary groundwater treatment system was an advanced oxidation system using HiPOx technology. The compliance monitoring program included monthly surface water sampling, semi-annual groundwater monitoring program, and semi-annual remedial action progress reports. Successful demonstration of remediation of a significant portion of the source area has resulted in shutdown of treatment systems, continued groundwater monitoring, and limited Enhanced Fluid Recovery (EFR) events.
- Confidential Client Fuel Storage Tank System Design; Princeton, NJ: Client Manager for the design of a new aboveground storage tank (AST) system to replace the existing fuel storage system at a data center in Princeton, NJ. The new fuel storage system will be replacing the existing underground storage tank (UST) system that is comprised of two 30,000-gallon tanks that will be removed.
- Various Clients Spill Prevention Control and Countermeasure (SPCC) Plan Preparation; Multiple States: Project Manager, Client Manager, and Engineer of Record for the reparation and certification of SPCC plans for various facilities storing oil and oil products exceeding regulatory thresholds. Evaluates and predicts onsite control of spills under various scenarios and provides recommendations for improvements and procedures to minimize release potential.
- Various Clients Phase I and Phase II Environmental Site Assessments; Various Locations, United States: Project and Client Manager for Phase I and II environmental site assessments of commercial and industrial facilities. Work included performance of on-site air and soil-gas monitoring, and soil and groundwater sampling to identify areas of potential environmental concern. Numerous projects have resulted in the implementation of remedial actions, including the removal and remediation of underground storage tanks and remediation of soils and groundwater impacted by industrial and dry cleaning operations, etc.

## Education

M.S., Environmental Engineering,  
Manhattan College

B.S., Civil Engineering,  
Manhattan College

## Licenses/Certifications

Professional Engineer: NJ, NY, CT, PA, LA,  
MA, KY, FL, DE, VA

Licensed Site Remediation Professional

Hazardous Waste Operations and  
Emergency Response, OSHA 40-hour

Regulatory Training in Underground  
Storage Tanks, Rutgers

Subsurface Evaluation, Underground  
Storage Tank Closure, Installation,  
Corrosion Specification and Testing, NJDEP

OSHA 10-hour Construction Safety

## Offices Held

Development/Redevelopment Advisory  
Committee, Hawthorne, NJ

Future of Hawthorne Advisory Committee,  
Hawthorne, New Jersey

Municipal Services Advisory Committee,  
Hawthorne, New Jersey

## Memberships

American Society of Civil Engineers  
Water Environment Federation

## Technical Courses

Emerging Treatment Technologies  
Remediation of NAPLs at Hazardous  
Waste Site

Underground Storage Tanks,  
Rutgers University

Visual MODFLOW & MT3D Course; National  
Groundwater Association



# NEW JERSEY DIVISION OF CONSUMER AFFAIRS



## License Information

Accurate as of May 06, 2024 2:44 PM

[Return to Search Results](#)

**Name:** CHARLES ANTHONY MARTELLO

**Address:** Oakland,NJ

**Profession/License Type:** Engineers & Land Surveyors,Professional Engineer

**License No:** 24GE04063000

**License Status:** Active

**Status Change Reason:**

**Issue Date:** 8/25/1997

**Expiration Date:** 4/30/2026

**SPL:**

NO Board Actions. For more information contact the New Jersey State Board of Professional Engineers and Land Surveyors (973)504-6460

## Documents

No Public Documents

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## ***SRP Licensed Site Professional Confirmation***

<b>License Number</b>	586488
<b>LRSP Name</b>	CHARLES A MARTELLO
<b>License Expiration Date</b>	10/22/2027
<b>License Type</b>	LICENSED SITE REMEDIATION PROFESSIONAL
<b>Address</b>	119 CHERRY HILL RD STE 110 H2M ASSOCIATES INC
<b>City</b>	Parsippany
<b>State</b>	NJ
<b>Business Phone #</b>	(862) 207 - 5900 EXT: 2230
<b>Email</b>	<a href="mailto:ckmartello@verizon.net">ckmartello@verizon.net</a>

<b>Assessment Type</b>	<b>Billed Amount</b>	<b>Received Amount</b>	<b>Due Date</b>	<b>Bill Status</b>
Fee(Initial Application)	\$50.00	\$50.00	9/21/2012	Closed (Paid In Full)
FEE(Initial License)	\$0.00	\$0.00	11/16/2012	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	12/19/2012	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/17/2014	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/19/2015	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/22/2016	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	2/3/2017	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/15/2018	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/19/2019	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/13/2020	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/16/2021	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	12/24/2021	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	12/15/2022	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/18/2024	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$990.00	\$990.00	1/18/2025	Closed(Paid Web)
Fee(Renewal)	\$87.00	\$87.00	7/25/2021	Closed(Paid Web)
Fee(Renewal)	\$100.00	\$100.00	7/25/2015	Closed (Paid In Full)
Fee(Renewal)	\$100.00	\$100.00	7/25/2018	Closed(Paid Web)
Fee(Renewal)	\$150.00	\$150.00	7/25/2024	Closed(Paid Web)



# Jerold Blustein LSRP

Senior Associate,

Department Manager - Environmental Services



Mr. Blustein is a Licensed Site Remediation Professional (LSRP) and Department Manager with 25+ years of environmental consulting experience. His responsibilities have included the design, oversight, and implementation of groundwater, soil, and sediment contamination investigations and remedial actions, Underground Storage Tank (UST) system closures/investigations, preparation and submission of compliance reports including Preliminary Assessment Reports, Site Investigation Reports, Remedial Investigation Reports, Remedial Action Work Plans, and Remedial Action Reports.

Additional responsibilities have included client and regulatory agency coordination, document review, bid solicitation and contractor selection, contractor oversight for remediation activities ranging from excavation and disposal to installation of containment walls and sediment removal, and Phase I and Phase II Assessments of commercial and residential properties.

## Selected project experience

### Education

B.S., Environmental Science, Minor in Geology; Dickinson College

### Licenses/ Certifications

Licensed Site Remediation Professional:  
New Jersey

OSHA 40-Hour HAZWOPER Training

OSHA 10-Hour Construction Health & Safety

OSHA 8 Hour Annual Refresher

DOT - Basic HAZMAT Training

NJDEP Unregulated Heating Oil Tank  
(UHOT)

30 hour AutoCAD Basic Training

### Memberships

New Jersey Licensed Site Remediation  
Professionals Association (NJ Chapter)

- Iselin Fire District No. 9 UST Removal; Iselin, NJ: Served as LSRP during the removal of USTs located at Iselin Fire District No. 9 in Iselin, NJ, within the Township. H2M understands There were two existing USTs at the site, including one 1,000-gallon unleaded gasoline UST and one 2,000-gallon diesel UST.
- Monmouth County, NJ: Current Project Manager and LSRP of record for County owned or formerly owned properties with ongoing remediation. Responsible for the design and coordination of remedial activities (soil boring and monitor well installation, soil and groundwater sampling, remedial phase reporting) intended to bring each site to closure within the NJDEP's prescribed Remedial Action Timeframes. Assisted the County with on-call services including a Linear Construction Project involving the removal of a UST from the Right-of-Way, vapor intrusion investigation, including sub-slab soil gas sampling and indoor air sampling in a County owned building. Maintained consistent correspondence with County personnel regarding the status of projects and budgets.
- Township of Wall UST Investigations at Multiple Pump Stations; Wall Township, NJ: LSRP of Record for the investigation of potential USTs at eight pump stations. Oversaw geophysical investigation of each site to determine if tanks were still present. Coordinated and oversaw the soil and groundwater investigations at the eight pump stations that confirmed a discharge had not occurred. Currently working with the Township to prepare documentation for the closure of the cases with the NJDEP.
- Monmouth County UST/AST Compliance; Monmouth, NJ: Project Manager for UST/AST compliance project for various County owned facilities. Responsibilities include preparation of budgets for on-call services, coordinating quarterly compliance inspections of UST and AST systems, and preparation of SPCC Plans. Providing design, coordination, and implementation of sampling plans around USTs on County property. Developing technical specifications for the removal of USTs from County property. Additional responsibilities include correspondence with regulatory agencies and County personnel, preparation of invoices per the County requirements, and coordination of contractors for project tasks.
- Essex County Improvement Authority Essex County Airport; Fairfield, NJ: Project Manager for monthly A/B Operator compliance. Coordinated and oversaw monthly inspections of four UST systems to ensure compliance with New Jersey's Underground Storage Tank Rules (N.J.A.C. 14B). Provided assistance with annual UST system certifications and periodic testing of tanks. Assisted client with registration renewals and updates to the UST Facility Certification Questionnaire when changes to the UST systems were made. Corresponded with the NJDEP during and after inspections to answer questions and clarify system components.
- Borough of Sea Girt UST Systems at DPW Facility; Sea Girt, NJ: LSRP of Record for groundwater contamination due to leaking UST systems at DPW facility. In-situ chemical oxidation (ISCO) was used to mitigate the majority of petroleum related compounds in groundwater but was proving ineffective for several constituents. Completed annual Permit-by-Rule Discharge Reporting summarizing ISCO injections. H2M revised an existing CEA and proposed monitored natural attenuation as a more cost effective remedial alternative for the remediation of the remaining petroleum related constituents.



# Jerold Blustein

## LSRP

Senior Associate, Department  
Manager - Environmental Services

- NJDEP State Police Barracks; Edison, NJ: Developing and implementing Site Investigation and Remedial Investigation activities. Previous investigations of the UST system indicated that potential impacts were present in soil and additional investigation was completed to delineate soil impacts. The selected remedial action includes establishing a Deed Notice and maintaining the existing site features as an engineering control.
- Confidential Hospitality Client UST systems at Casinos; Atlantic City, NJ: Provided oversight and administrative compliance including conducting monthly inspections of leak detection systems and maintaining records for NJDEP inspection. Responsible for completing and submitting UST Facility Certification Questionnaires for owner/facility contact updates, system changes, insurance renewals and UST Registration renewals. Assisted with the development and Spill Prevention Control and Countermeasure (SPCC) Plan. Provided on-call services to address UST leak detection system alarm conditions and provided contractor oversight .
- Various Gas Stations throughout New Jersey and Pennsylvania: Managed between 15-20 retail gasoline stations in various stages of investigation and remediation. Oversaw UST removals and coordinated closure activities in accordance with applicable regulations in both NJ and PA. Worked with contractors to coordinate the installation of UST systems including automatic leak detection systems.
- Philadelphia Gas Works Facility Inspections for Compliance; Philadelphia, PA: Conducted monthly inspections of UST systems at various facilities to assess compliance with state and federal regulations. Operated Veeder-Root leak detection systems to review periodic tank testing. Provided client with monthly reports to verify UST system compliance.
- Township of Robbinsville Site Investigation and Remediation; Robbinsville, NJ: LSRP of Record and Project Manager responsible for the completion of a Site Investigation, Remedial Investigation and Remedial Action in accordance with NJDEP regulations for numerous areas of concern (AOCs) including historically applied pesticides, UST closure, and remediation of wetland areas impacted by pesticides. Coordinated field activities including sampling of agricultural lands, former septic systems, drainage outfalls and solid waste disposal areas. Assisted in the preparation and submission of a Freshwater Wetland Permit (GP4). Compliance reporting included Receptor Evaluation, Ecological Evaluation, a Site Investigation Report, a Remedial Investigation Report, and a Remedial Action Work Plan.
- Maersk, Inc. UST Removal and Replacement; Madison, NJ: LSRP of Record and project manager responsible for coordinating and overseeing the removal of a 10,000 gallon fuel oil underground storage tank and the installation of a replacement 10,000 gallon above ground storage tank. Managed and provided oversight of soil sampling and reporting associated with the closure of the fuel oil UST. Compliance reporting included the preparation and submission of a Site Investigation Report and Response Action Outcome.



## ***SRP Licensed Site Professional Confirmation***

<b>License Number</b>	628093
<b>LRSP Name</b>	JEROLD M BLUSTEIN
<b>License Expiration Date</b>	06/04/2026
<b>License Type</b>	LICENSED SITE REMEDIATION PROFESSIONAL
<b>Address</b>	4810 BELMAR BLVD STE 201 H2M ASSOCIATES
<b>City</b>	Wall
<b>State</b>	NJ
<b>Business Phone #</b>	(732) 348 - 7005
<b>Email</b>	<a href="mailto:JBlustein@H2M.com">JBlustein@H2M.com</a>

<b>Assessment Type</b>	<b>Billed Amount</b>	<b>Received Amount</b>	<b>Due Date</b>	<b>Bill Status</b>
Fee(Initial Application)	\$400.00	\$400.00	3/1/2014	Closed (Paid In Full)
FEE(Initial License)	\$600.00	\$600.00	6/6/2014	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/19/2015	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/22/2016	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	2/3/2017	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/15/2018	Closed (Paid In Full)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/19/2019	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/13/2020	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/16/2021	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	12/24/2021	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	12/15/2022	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/18/2024	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$990.00	\$990.00	1/18/2025	Closed(Paid Web)
Fee(Renewal)	\$87.00	\$87.00	3/8/2023	Closed(Paid Web)
Fee(Renewal)	\$95.00	\$95.00	3/7/2020	Closed(Paid Web)
Fee(Renewal)	\$100.00	\$100.00	4/1/2017	Closed (Paid In Full)



# Jeffrey P. Lynes LSRP

Senior Environmental Scientist



Mr. Lynes is a Licensed Site Remediation Professional (LSRP) with more than 20 years of environmental consulting experience with federal government, local government, commercial, and industrial clients. His responsibilities have included the design oversight and implementation of groundwater, soil, sediment, vapor intrusion contamination investigations and remedial actions. He is experienced in the preparation of Preliminary Assessment Reports, Site Investigation Reports, Remedial Investigation Reports, Remedial Action Work Plans, Remedial Action Reports, Uniform Federal Policy for Quality Assurance Plans, and Project Management Plans. Additional responsibilities have included geographic information system (GIS) mapping, database management, client and regulatory agency coordination, document review, bid solicitation, contractor selection, and contractor oversight for remediation activities.

## Selected project experience

- Iselin Fire District No. 9 UST Removal; Iselin, NJ: Served as LSRP during the removal of USTs located at Iselin Fire District No. 9 in Iselin, NJ, within the Township. H2M understands There were two existing USTs at the site, including one 1,000-gallon unleaded gasoline UST and one 2,000-gallon diesel UST.
- US Army Corps of Engineers (USACE) Former Somerville Depot Remedial Activities; Hillsborough, NJ: Managed the day-to-day operations of the remediation of approximately 90,000 cubic yards (160,000 tons) of metals and polynuclear aromatic hydrocarbon impacted soils. Tasks included writing Remedial Action Workplan (RAWP), Project Management Plan, Quality Assurance Project Plan (QAPP), Accident Prevention Plan, and contract modifications. Additional tasks included monthly progress and billing reports to USACE; coordination with client, LSRP, construction team, and subcontractors; reviewing subcontractor invoices; setting up purchase orders; coordination; and review of post-excavation samples.
- Confidential Client Remedial Investigation; Hoboken, NJ: Managed Remedial Investigation (RI) activities, including writing proposals, Preliminary Assessment Report, RAWP, and public outreach documents. Coordinated with subcontractors, set up sampling events, obtained municipal permits, and reviewed analytical data.
- BP IPO Projects; Keasbey and Matawan, NJ: Managed day-to-day operations of two BP IPO cost-to-closure projects. Tasks included writing RAWPs and remedial action reports, remedial action permits, Groundwater Classification Exception Areas (CEAs), Remedial Action Outcome (RAO), deed notices, reviewing historical data, and managing field groundwater and soil sampling events.
- New Jersey Turnpike Authority (NJTA) Chromium Sites Remedial Investigation/Remedial Action; Piscataway, NJ: Managed two NJTA chromium site remediation projects. Tasks included coordinating sampling events, reviewing field team data, and writing work plans and RI reports. Coordinated with subcontractors, set up purchase orders, reviewed subcontractor invoices, and created GIS figures.
- Confidential Client Remedial Action; Harrison, NJ: Managed Predesign Investigation Reports (PDIs) of petroleum hydrocarbons and polychlorinated biphenyls for two Areas of Concern. Wrote work plans and PDI reports, coordinated with subcontractors, reviewed invoices, and managed field staff. Additional tasks included GIS and data management activities associated with site investigations.
- Confidential Client ISRA Site Remediation; Fair Lawn, NJ: Managed the remediation of chlorinated solvents in groundwater at a former cutting-tool manufacturing facility under the NJDEP ISRA and US Environmental Protection Agency (USEPA) CERCLA programs. Tasks included coordinating with subcontractors, evaluation of groundwater results in multiple aquifers, evaluation of historical data to document off-site chlorinated solvent source, and creating various GIS figures related to site activities.
- USEPA Region 2 Site Assessment Contract; Various Sites across New Jersey, New York, and Puerto Rico: Tasks included completing soil, sediment, and tap water samples, Scribe database management, and collecting GPS points for multiple Site Assessment Team sites in New York, New Jersey, and Puerto Rico. Created figures for multiple EPA SAT Region 2 projects. Maps were created for site location, 4-mile radius of site, and 15-mile pathway from the site location. The four-mile radius maps contained Hazard Ranking System-eligible wetlands, public supply wells, and wellhead protection areas where applicable.

Next →

## Education

B.S., Environmental Science/Policy and Geography; University of Maryland

## Licenses/ Certifications

Licensed Site Remediation Professional: NJ

OSHA 40-hour HAZWOPER

OSHA 30-hour Construction Safety

OSHA 10-hour Construction Safety

OSHA 8-hour Annual Refresher

OSHA Site Manager and Supervisor

First Aid/CPR, American Red Cross

# Jeffrey P. Lynes LSRP

Senior Environmental Scientist

The 15-mile pathway maps included the pathways, HRS-eligible wetlands, and frontage along the pathway. Also performed calculations to find the total HRS-eligible wetlands within the 4-mile radius, and calculated wetland frontage along the 15-mile pathways. Additional projects include Hurricane Katrina/Rita Response, BP Oil Spill Response, and Hurricane Sandy Response work.

- USACE Former Raritan Arsenal; Edison, NJ: Wrote work plans and developed trip reports, groundwater monitoring reports, and semiannual indoor air sampling reports. Other duties included the completion of a well gauging event for 100+ on-site wells, installation of monitoring wells, soil sample collection, indoor air sampling, soil gas sampling, surface water sampling, and groundwater sampling. Managed a database containing all samples collected on site dating back to 1994. Inputted new data received from laboratories and corrected any errors in the database. Created maps showing sample locations, proposed sample locations, sample results, and creation of groundwater plumes. Similar USACE work included at the Atlantic City Airport site containing mercury contamination.
- Confidential Client Remedial Investigation; Gibbsboro, NJ: Completed field duties, including sample management using internally created sample management software; documenting sample locations using GPS; collecting pore water, surface water, sediment, and soil samples; overseeing monitoring well installation; providing soil lithology logging; and using X-ray fluorescence for delineation of sample location. Created several hundred GIS figures for 10 areas across the site, including over 1,500 locations for samples collected since 2005. Figures included sample locations, proposed sample locations, and sample exceedances. Created and verified lot and block locations for sampling areas.
- City of Newark Contaminated Site Sampling; Newark, NJ: Completed tasks including collection of soil, sediment, groundwater sampling, and logging lithology. Managed a database containing information on multiple sites in Newark. There were close to 130,000 records within the City database. Data management tasks included loading historic sample results from multiple contractors, loading laboratory data from currently collected samples. Loading historic data involved taking data from unconventional formats such as PDFs, old Excel files, and old figures and converting them into an electronic data deliverable that could be loaded into existing databases.
- Confidential Client Contaminated Site Sampling; Fords, NJ: Managed a database containing all samples that were collected on site. Data management tasks included converting historic data into an Envirodata database format, loading current collected laboratory data into the database, and updating the database to flag any samples locations that had been excavated from the site. There were over 240,000 analytical results located within the site database. Field tasks included being the field team lead in multiple sampling events including soil, sediment, soil gas sampling, well gauging, and system monitoring. Sampling events were completed to delineate contaminants of concern on- and off-site. Additional tasks included creating over 100 GIS figures with sample results, proposed sample locations, and excavation boundaries.





## ***SRP Licensed Site Professional Confirmation***

<b>License Number</b>	837272
<b>LRSP Name</b>	JEFFREY P LYNES
<b>License Expiration Date</b>	01/15/2027
<b>License Type</b>	LICENSED SITE REMEDIATION PROFESSIONAL
<b>Address</b>	4810 BELMAR BLVD STE 201 H2M ASSOCIATES INC
<b>City</b>	Wall Twp
<b>State</b>	NJ
<b>Business Phone #</b>	(732) 348 - 7010
<b>Email</b>	<a href="mailto:JLynes@H2M.com">JLynes@H2M.com</a>

<b>Assessment Type</b>	<b>Billed Amount</b>	<b>Received Amount</b>	<b>Due Date</b>	<b>Bill Status</b>
Fee(Initial Application)	\$400.00	\$400.00	1/26/2020	Closed (Paid In Full)
FEE(Initial License)	\$675.00	\$675.00	2/6/2021	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	12/24/2021	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	12/15/2022	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/18/2024	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$990.00	\$990.00	1/18/2025	Closed(Paid Web)
Fee(Renewal)	\$100.00	\$100.00	10/18/2023	Closed(Paid Web)

# Jason W. Potosnak LSRP

Senior Project Scientist



Mr. Potosnak is a senior project scientist with more than 10 years of experience in the field of hazardous waste and environmental management, investigation and remediation. His responsibilities include sampling of environmental media (soil, groundwater, surface water, soil gas and indoor air sampling), logging of soils, overseeing geophysical subsurface investigations, preparation of various work plans and technical reports, groundwater flow maps, data evaluation, statistical analysis of data, numerical fate, and transport modeling, and Phase I environmental site assessment reports. Mr. Potosnak leads H2M's environmental data management program, which includes both input of data and presentation of data to support technical justification for closure or reduction of sampling.

## Selected project experience

- Phase I Environmental Site Assessment; Monsey, NY: Served as primary investigator for a Phase I ESA on a commercial Site where the occupant was in the process of purchasing the property. Completed the on-site Phase I ESA; completed the Phase I report; at client's request, provided a recommendation letter based on the results of the investigation. Provided results to client to aid in potential purchase of the property.
- Monmouth County; NJ: Assisted LSRP of Record with groundwater investigations on multiple properties where Monmouth County is the Responsible Party. Coordinated field staff and contractors for various remediation tasks including monitoring well installation and repair, groundwater sampling, laboratory analysis, and handling of investigation derived waste. Managed the receipt, review and compilation of laboratory data culminating in deliverables through which project decisions were made. Prepared figures, tables and text for submission to Monmouth County and regulatory agencies.
- Multiple Projects EQuIS Data and Workflow Manager; Various Locations, NJ: Controls workflow of analytical data input, evaluation, and export of data through the use of Earthsoft EQuIS, collect field data collection, and EnviroInsight. These programs are used to streamline the collection, management, and communication of field and laboratory environmental data efficiently and accurately so that it can be used to generate data tables, figures (through CAD and GIS), and allow effective evaluation and communication of data. Also responsible for development of standard forms and protocols and training staff in the usage of these software programs to ensure standardized data management.
- Former Southend Pyramid Service Station UST Closure and Remedial Investigation; Montclair, NJ: Coordinated and oversaw the closure of two leaded gasoline underground storage tanks (UST). Collected post-closure samples and prepared report. Conducted soil and groundwater investigation at various areas of concern (AOCs) identified during the Preliminary Assessment (AOCs), including floor and trench drains, storage tank areas, and waste oil tanks. Used Geoprobe to collect soil samples and install temporary well points. Sampling was conducted in accordance with the FSPM. Prepared Electronic Data Deliverables (EDDs) as required by NJDEP. Used US EPA's comprehensive statistical software ProUCL to evaluate data using various statistical methods and graphical tools to assess soil and groundwater monitoring data to successfully support site closure and elimination of the need for additional sampling.
- NJDEP Former Keuffel and Esser Plating Facility; Cape May, NJ: As Database Manager, worked with the Project Manager to organize data entry and export to prepare Remedial Investigation Report for an investigation that included 72 monitoring well groundwater samples, 160 temporary well point groundwater samples, 34 soil samples, 30 vapor intrusion samples, and potable well samples. Following data validation, the analytical data was evaluated by Mr. Potosnak and supporting tables and figures were created using EnviroInsight, GIS, and CAD to clearly communicate the results of this two-year investigation.
- Confidential Utility Client Interim Remedial Measures Implementation; New York, NY: Conducted bimonthly groundwater and product gauging at an active generating facility; determined influence of tides on behavior and migration on separate phase product across the site, and oversaw vacuum-enhanced fluid recovery (VEFR) to extract separate phase product. Completed site-wide product and groundwater sampling event to evaluate wells and contents of LNAPL in each monitoring well.

## Education

B.S., Environmental Science; William Paterson University

## Licenses/ Certifications

Licensed Site Remediation Professional

OSHA 40-hour HAZWOPER

OSHA 10-hour Construction Safety & Health

CPR/First Aid, American Health Care Academy

Next →



# Jason W. Potosnak LSRP

Senior Project Scientist

- Fortive Corporation Quarterly Groundwater and Potable Water Monitoring; New Windsor, NY: Collected quarterly groundwater samples using low-flow and conventional groundwater sampling methodologies. Performed annual vapor intrusion monitoring and sampling.
- Township of Wayne Preliminary Assessment for Green Acres; Wayne, NJ: Prepared a Preliminary Assessment in accordance with NJDEP requirements for two sites. Work included the review of historical information, file review and OPRA requests, interviews with knowledgeable persons, and preparation of the Preliminary Assessment report and form, as well as the Green Acres Checklist.
- Industrial Bronze Site; Flemington, NJ: Collected quarterly groundwater samples using low-flow and conventional groundwater sampling methods in accordance with NJDEP Field Sampling Procedures Manual (FSPM).
- NJDEP Former Ronson Metals Remedial Investigation; NJ: Soil, groundwater, and soil gas investigation of 17 residential properties located on a former industrial facility and located surrounding the site. Work included field investigation, data evaluation, data summary and report preparation.
- Various Insurance Clients Residential Spill Investigation and Oversight; Various Locations, NJ: Conducted soil and groundwater investigations at numerous residential heating oil spills and releases. Investigation activities included soil sampling and installation of shallow overburden and bedrock monitoring wells using Geoprobe, hollow-stem auger and air-rotary drilling methods. Oversight of remedial activities, including injection of in-situ petroleum treatment materials and excavation of impacted soils. Prepared reports for each site to document investigation and remediation activities.
- Sprint Auto Service Center Remedial Investigation; North Bergen, NJ: LSRP of Record finalizing soil and groundwater remediation documents for site closure. Prepared multiple milestone phase reports, including fate and transport, completing compliance and attainment analysis, completing receptor evaluation, and conducted and manages soil, groundwater, and sub-slab vapor sampling at the active auto service center. Coordinated and oversaw soil sampling via Geoprobe, installation of temporary well points, and installation of permanent monitoring wells using hollow-stem auger drilling methods. Sampling was conducted in accordance with FSPM. Prepared vapor intrusion sampling report as required by NJDEP, including Full Laboratory Data Deliverables and Indoor Air Assessment.
- Grossman Property Remedial Investigation; Wyckoff, NJ: Installation of bedrock monitoring well and groundwater sampling at this former bulk petroleum storage site. Performed soil boring and overburden and bedrock groundwater monitoring well gauging and sampling.
- NJTA Rest Area and Fueling Station; Mount Laurel, NJ: Performed groundwater sampling for volatile and semivolatile organic compounds.
- NJTA Remedial Investigation at Maintenance Facility; East Rutherford, NJ: Performed groundwater sampling for volatile and semivolatile organic compounds and metals.
- NJTA Remedial Investigation at Rest Area and Retail Fueling Facility; Oceanview, NJ: Conducted soil and groundwater investigation for petroleum release from USTs. Investigation included geophysical survey, installation of monitoring wells via hollow-stem auger drilling methods and collection of groundwater samples via low-flow sampling methods.
- Washington Cleaners Remedial Investigation and Remedial Action; Morristown, NJ: Conducted remedial investigation of soil and groundwater at former dry cleaners impacted by chlorinated compounds. Investigation included soil and groundwater sampling on- and off-site. Oversaw remedial action including excavation of impacted soil and collected post-excavation confirmatory samples. Conducted sub-slab vapor intrusion sampling in nearby residences to assess potential impacts.
- NJTA Remedial Action at Toll Interchange; Runnemede, NJ: Performed annual groundwater sampling for petroleum compounds. Coordination and oversight of monthly multi-phase extraction of free product.
- Analyze Immediately Field Measurements, Program Management. Oversees the maintenance of H2M's Analyze Immediately program for measurement of groundwater field parameters, including pH, conductivity and turbidity. Manages the calibration and implementation of the Quality Assurance/Quality Control program.



## ***SRP Licensed Site Professional Confirmation***

<b>License Number</b>	975227
<b>LRSP Name</b>	Jason W Potosnak
<b>License Expiration Date</b>	06/13/2028
<b>License Type</b>	LICENSED SITE REMEDIATION PROFESSIONAL
<b>Address</b>	119 CHERRY HILL RD STE 110 H2M ASSOCIATES INC
<b>City</b>	Parsippany
<b>State</b>	NJ
<b>Business Phone #</b>	(862) 207 - 5900 EXT: 2246
<b>Email</b>	<a href="mailto:jpotosnak@h2m.com">jpotosnak@h2m.com</a>

<b>Assessment Type</b>	<b>Billed Amount</b>	<b>Received Amount</b>	<b>Due Date</b>	<b>Bill Status</b>
Fee(Initial Application)	\$300.00	\$300.00	3/12/2022	Closed (Paid In Full)
FEE(Initial License)	\$525.00	\$525.00	7/7/2022	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	12/15/2022	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$900.00	\$900.00	1/18/2024	Closed(Paid Web)
FEE(LSRP License Annual Fee)	\$990.00	\$990.00	1/18/2025	Closed(Paid Web)
Fee(Renewal)	\$150.00	\$150.00	3/16/2025	Closed(Paid Web)





# David R. Marsden

Project Scientist



Mr. Marsden is a geologist in the field of hazardous waste and environmental management. His responsibilities include site investigation and remedial field tasks including performing various types of environmental sampling. He is also responsible for the coordination and scheduling of contractors, laboratory supplies and equipment for field activities. Mr. Marsden also has experience overseeing the installation of monitoring wells, soil and groundwater delineation, geophysical subsurface investigations, and test pit and remedial excavations. He is also responsible for data management and preparation of boring logs, well construction logs, site maps and cross-section. Mr. Marsden also assists in preparation of work plans, field sampling plans, quality assurance project plans, health and safety plans, and technical reports.

## Selected project experience

- NJDEP DPMC Marie Katzenbach School for the Deaf; Ewing, NJ: Contracted by the New Jersey Division of Property Management and Construction (DPMC) under the New Jersey Department of Environmental Protection (NJDEP) Remedial Investigation, Remedial Design, and Remedial Action Services contract. Responsibilities included contractor coordination and oversight during soil boring and monitoring well installation during the investigation of UST systems. Assisted with the preparation of the Site Investigation/Remedial Investigation including figure and table preparation.
- NJDEP Multiple Projects; Various Locations, NJ: Prepared Site Specific Workplans, Quality Assurance Project Plans, Health and Safety Plans, Remedial Investigation Reports, Unknown Source Investigation Reports, creation of analytical data tables (using EQulS and Excel), and site figures (Using CAD, GIS, and EnviroInsite).
- Various Insurance Clients Residential Spill Investigation and Oversight; Various Locations, NJ: Conducted soil and groundwater investigations at numerous residential heating oil spills and releases. Investigation activities included soil sampling and installation of shallow overburden and bedrock monitoring wells using Geoprobe, hollow-stem auger and air-rotary drilling methods. Oversight of remedial activities, including injection of in-situ petroleum treatment materials and excavation of impacted soils. Prepared reports for each site to document investigation and remediation activities.
- Sprint Auto Service Center Remedial Investigation; North Bergen, NJ: Conducted soil, groundwater sampling at an active auto service center. Oversaw soil sampling via Geoprobe. Sampling was conducted in accordance with FSPM.
- NJDEP Regional Investigation; Cape May, NJ: Conducted indoor air sampling at various commercial structures to identify potential indoor air issues related to a regional groundwater contamination issue. Coordinated with laboratories and contractors to provide materials for sampling, arranged site access to privately owned properties, conducted building surveys prior to sampling and managed indoor air samples. Responsible for identifying sample locations and arranging access with property owners. Reviewed and tabulated laboratory analytical results for reporting.
- NJDEP Former Keuffel & Esser Plating Facility; Cape May, NJ: As Field Lead, worked with project manager to coordinate field activities which included oversight of the installation of 36 permanent monitoring wells, multiple soil borings for soil and groundwater sampling, the placement and collection of indoor air samples at a residential property, and use of a Membrane Interface Probe/Membrane Interface Hydraulic Profiling Tool (MIP/HIPT) to assess contaminants and hydrogeological characteristics in situ.
- Confidential Utility Client Phase II Environmental Site Assessment; Staten Island, NY: Conducted site investigation activities for soil and groundwater investigation including oversight of geophysical survey, oversight of completion of HEPA-filtered vacuum excavation of soil boring locations to five feet prior to drilling, oversight of asbestos sampling, management of waste, implementation of a Community Air Monitoring Program for asbestos and VOCs, geologic logging and soil sampling of soil borings advanced using Sonic drilling techniques, monitoring well installation, and oversight of monitoring well survey. Worked with Project Manager to prepare sections of the Phase II ESA report.

## Education

B.S., Geoscience; Montclair State University

## Licenses/ Certifications

OSHA 10-hour Construction Safety & Health

CPR Training

Asbestos Awareness Training

# David R. Marsden

Project Scientist

- Lockheed Martin Missiles and Fire Control Remedial Investigation, Remedial Action and PADEP Act 2 Final Report; Archbald, PA: Organized and reviewed historical data against current remediation standards, prepared groundwater contour maps, tabulated data, prepared contaminant isopleth maps for Remedial Investigation Report and Remedial Action Report, and PADEP Act 2 Final Report.
- Estate of Fred Friendly Former P&M Friendly Service Station, Remedial Investigation and Remedial Action; Dumont, NJ: Prepared groundwater contour maps, tabulated data, prepared groundwater isopleth maps, and prepared electronic data deliverables (EDDs) for Remedial Investigation Report and Remedial Action Work Plan.
- CHL Associates ISRA Site Investigation; Clifton, NJ: Provided field oversight during temporary well installation and soil borings for site investigation. Performed soil logging. Coordinated with laboratory for glassware, prepared chain of custodies, performed data tabulation and evaluated data against soil and groundwater standards.
- Garden State Gulf Remedial Investigation; Maplewood, NJ: Performed file review of historic site activities and hazardous materials storage and management practices at former auto repair shop and refueling station. Assisted in the preparation of Remedial Investigation Report including preparation of data tables and site figures depicting source area concentrations and groundwater contaminant plume isopleth maps.
- Culver Lake Golf Course Environmental Due Diligence; Branchville, NJ: Assisted in conducting Phase I Environmental Site Assessment to support a real estate transaction, including review of historical records to identify areas of potential environmental concern. Performed OPRA file reviews at offices of NJDEP, county and local municipalities.
- Confidential Client Fuel Oil Release; Woodbine, NJ: Provided field oversight and performed evaluation the fuel oil release extent from the leaking above ground storage tank and documentation of any findings related to the reported release.







# Nicholas G. Haverilla

Project Scientist



Mr. Haverilla has eight years of experience in the environmental consulting field. He is experienced in the field of environmental and hazardous waste management covering a broad range of projects including environmental site characterization and remediation, vapor intrusion investigations and receptor evaluations. His responsibilities include overseeing the installation of monitoring wells and soil borings, geophysical subsurface investigations, and test pit and remediation oversight. Mr. Haverilla is experienced in working with contractors, performing construction inspection, preparing daily inspection reports, tank system inspections, and air permitting. Mr. Haverilla also assists in preparation of work plans, field sampling plans, quality assurance project plans, health and safety plans, and technical reports.

## Selected project experience

- New York City School Construction Authority (NYCSCA) Phase 1 Environmental Site Assessments (ESAs): New York City: Assisted in the Phase 1 ESA investigation on commercial and vacant sites identified for prospective purchase or leasing for school construction. Completed historical reviews, report writing, and site inspections to complete the Phase 1 ESA report.
- Various Clients Phase 1 Environmental Site Assessment; Various Locations, NJ: Served as primary investigator for Phase 1 ESA on commercial and industrial Sites where the occupant was in the process of purchasing the property. Completed the on-site Phase 1 ESA; Phase 1 report; and provided recommendations based on the results of the investigation.
- New Jersey Department of Environmental Protection (NJDEP) Danzig Groundwater Contamination Conceptual Site Model; Northvale, NJ: Conducted a historical review to develop a conceptual site for the former Danzig Industrial site where over 400 buried drums were located. Completed a conceptual site model report to aid in directing all future remedial activities at the site.
- NJDEP DPMC Dover Armory; Dover, NJ: Contracted by the New Jersey Division of Property Management and Construction (DPMC) under the NJDEP Remedial Investigation, Remedial Design, and Remedial Action Services contract. Oversaw installation of soil borings and monitoring wells to investigate six underground storage tank (UST) systems at the site. Collected soil and groundwater samples to characterize site conditions. Coordinated with the laboratory to analyze soil and groundwater samples in accordance with NJDEP requirements. Assisted with the preparation of the Site Investigation Report, including figure and table preparation.
- Borough of Manasquan Mold Inspection and Sampling; Manasquan, NJ: Responsible for conducting mold spore sampling to identify the presence of mold in a Borough-owned building. Collected, prepared, and submitted swab and bioaerosol samples to determine the quantity and identify of mold on surfaces and in the indoor air. Conducted contractor oversight of mold remediation and limited building and HVAC repairs to minimize moisture infiltration in the building. Collected post-remediation bioaerosol samples to confirm the effectiveness of the remediation. Assisted in the tabulation of data and preparation of a report summarizing the mitigation and results of the remediation.
- County of Monmouth Tank Compliance Services; Monmouth County, NJ: Responsible for conducting quarterly inspections of UST and aboveground storage tank (AST) systems with regard to release detection monitoring, spill prevention equipment, and Stage I and II vapor recovery equipment. Prepared quarterly reports summarizing inspections and making recommendations for maintenance/repairs to UST/AST systems to maintain compliance with the appropriate regulations or SPCC requirements. Assisted with the preparation of SPCC plans for four County facilities.
- Various Clients Class A and B UST System Operator; Various Locations, NJ: Responsible for monthly inspections at various facilities for the purpose of complying with NJDEP UST regulations. Inspections consist of visual inspection of UST systems for potential leaks/discharges or compromised equipment that could lead to a discharge as well as a review of record keeping with regard to leak detection/leak monitoring systems. Maintains a binder on-site in addition to electronic files as a record of inspections, leak monitoring records, and tank maintenance. Assists clients with scheduling, coordination and oversight of required UST testing.

Next →

## Education

B.S., Biological Sciences,  
Rowan University

## Licenses/ Certifications

OSHA 40-hour HAZWOPER

OSHA 10-hour Construction Safety & Health  
CPR Training

New York State/EPA/AHERA Asbestos  
Building Inspector

New Jersey Class A/B UST System Operator

NYSDOL Asbestos Inspector

Pennsylvania Asbestos Inspector

# Nicholas G. Haverilla

Project Scientist

- Commercial Clients Environmental Due Diligence; Various Locations, NJ: Assisted in the performance of Phase I Environmental Site Assessment (ESA) in accordance with ASTM E1527-13 to support real estate transactions. Performed site visits to confirm site conditions, neighboring property uses and on-site Recognized Environmental Conditions (RECs). Conducted file searches and reviewed and summarized historical site information in background reports using information gathered from OPRA/FOIA documents, historical aeriels, Sanborn Fire Insurance Maps, GeoWeb database, state databases, and EDR reports.
- Phase II Remedial Investigation of Capitol Supply; Wayne, NJ: Conducted soil sampling and investigation using Geoprobe to evaluate potential petroleum-impacted soil and delineate impacts. Conducted site groundwater gauging for LNAPL and interim-remedial measures to mitigate LNAPL.
- Remedial Investigation of Sprint Auto Service Center; North Bergen, NJ: Conducted groundwater sampling for petroleum impacts using low-flow groundwater sampling methods per the Field Sampling Procedures Manual.
- Confidential Utility Client MOSF Monitoring and Reporting; New York, NY: Prepared data tables for annual groundwater event at Major Oil Storage Facility (MOSF) and reviewed data for historical trends and for compliance with groundwater standards. Assisted in the preparation of the Annual Report for submission to NYSDEC. Oversaw VEFR activities and managed product and water level database. Prepared graphs to evaluate product thickness trends over time.
- NJDEP Remedial Investigation; 502 South Main Street, Middle Township, NJ: Conducted groundwater sampling at groundwater monitoring wells via low-flow sampling methodology. Calibrated equipment, recorded field parameters, prepared chairs of custody, and coordinated laboratory. Tabulated and reviewed data for exceedances of standards. Prepared data packages as NJDEP Hazsite/Electronic Data Deliverables (EDDs).
- NJDEP Monroe Township Municipal Utilities Authority Unknown Source Investigation Wells #4 and #5, Monroe Township, NJ: Performed groundwater sampling using discrete screen-point samplers advanced by Geoprobe. Performed field screening of groundwater samples using the FROG-4000 field Gas Chromatography (GC) unit. Collected groundwater samples for laboratory analysis. Performed data tabulation and reviewed data for exceedances of groundwater standards.
- Confidential Utility Client Interim Remedial Measures Implementation; New York, NY: Conduct bimonthly product and groundwater gauging at active generating facility; determine influence of tides on behavior and migration on separate phase product across the site, oversee vacuum enhanced fluid recovery (VEFR) to extract separate phase product. Manages water and product database. Assists in the preparation of quarterly monitoring reports. Performed reviews of NYSDEC Spills database for updated status of spill sites submitted for regulatory closure.
- New York City Housing Authority (NYCHA) Residential Housing Development Inspections; Various Locations, NY: Conducted building inspections across the city to determine and catalog the condition of HVAC systems. Interfaced with the client project manager to coordinate site visits, access, and schedule.
- Orange and Rockland Utilities Emergency On-Call Services; Bergen County, NJ: Responded to the emergency calls 24/7 for transformer oil spills. Conducted Petro-Flag field analysis prior to sampling excavation. Oversaw remediation activities, managed contractor efforts, and ensured environmental compliance for the client.
- Various Insurance Clients Spill Investigation and Oversight; Various Locations, NJ: Provided field oversight and performed evaluation of the fuel oil release extent from the leaking ASTs, USTS, and documentation of findings.
- Various Clients Asbestos Building Surveys; Various Locations, NJ, NY, PA. Performed inspections and conducted bulk sampling of suspect asbestos containing materials (ACM), and document locations and measurements, and material condition. Interpreted results and prepared reports with recommendations for ACM management/abatement.







# Joseph McNanna

Senior Project Scientist



Mr. McNanna has served as H2M's N2 Industrial Wastewater Treatment Plant Operator for the past 20+ years, and has operated groundwater treatment plants including a 20,000-gallon per day (GPD) treatment system utilizing counter-current packed bed air stripping with vapor phase granular activated carbon and a 70,000 GPD groundwater treatment system utilizing an advanced oxidation system of hydrogen peroxide and ozone gas HiPOx. His responsibilities include permit renewals, preparation and submittal of compliance reports to the NJDEP including Remedial Action Progress Reports, Classification Exemptions and air reports. Mr. McNanna is also experienced in overseeing the installation of monitoring wells, sub-slab and indoor vapor intrusion investigations and soil and groundwater delineations; coordinating and scheduling contractors and equipment for field activities and the maintenance and operation of various types of in-situ, groundwater recovery and soil vapor extraction systems. He also provides assistance in designing and laying out groundwater and soil remediation systems including both technical and practical recommendations to facilitate operation associated with various remediation systems.

## Selected project experience

- Confidential Client Indoor Air Quality Sampling; Newark, NJ: Responsible for indoor air sampling at a hotel to address potential indoor air issues related to soil and groundwater contamination beneath the structure. Assisted the client with vapor mitigation methods including HVAC balancing and sealing openings and penetrations through the grade level floor. Prepared report documenting investigation, mitigation and results of confirmatory indoor air sampling.
- NJDEP Regional Investigation; Cape May, NJ: Conducted indoor air sampling at various commercial structures to identify potential indoor air issues related to a regional groundwater contamination issue. Coordinated with laboratories and contractors to provide materials for sampling, arranged site access to privately owned properties, conducted building surveys prior to sampling and managed indoor air samples. Responsible for identifying sample locations and arranging access with property owners. Reviewed and tabulated laboratory analytical results for reporting.
- Former Manufacturing Facility Remediation; Clifton, NJ: Site remediation/compliance at a Clifton, NJ manufacturing facility where a Groundwater Treatment Facility designed to actively remediate two sources of groundwater contamination (gasoline/diesel fuel and 1,1,1-trichloroethane and related solvents). Compliance monitoring, sample data tabulation and evaluation, permit renewals, treatment plant operation and maintenance and preparation and submittal of annual reports to the NJDEP.
- New Jersey Turnpike Authority (NJTA) Service Area 4N; NJ: Site remediation/compliance at the New Jersey Turnpike Authority Service Area 4N groundwater and soil treatment systems associated with cleanup of a gasoline release from the on-site service station. Compliance monitoring, Remedial Action Progress Reports, updates of the Classification Exemption Area, coordination and oversight of fluid recovery events and successful petitioning of the NJDEP for reduced monitoring and cessation of treatment plant operation.
- Various Clients Environmental Investigations; NJ: Site investigations/remedial Investigations at various projects throughout New Jersey, some of which include the overall coordination and field activities of numerous Phase II investigations and routine groundwater monitoring events. Site investigations were developed and performed in accordance NJDEP technical requirements for site remediation and NJDEP field sampling procedures manual. Supervises the installation of groundwater monitoring wells and provides oversight of contractor's subsurface investigations.
- Former Industrial Facility Monitoring and Reporting; New Windsor, NY: Compliance monitoring and reporting at the site of a former industrial facility in New Windsor, NY. Responsible for the coordination of all remedial activities conducted at a former industrial facility impacted with CVOCs in groundwater and sub-slab soil gas. Responsibilities included the review of historical site investigation sampling results and preparation of reports to New York regulatory agencies (NYSDEC/NYSDOH). Conducted quarterly monitoring and reporting of site groundwater. Maintained and monitored an off-site potable well POET

## Education

B.S., Management Science;  
Kean University

## Licenses/ Certifications

OSHA 10-Hour Construction Safety & Health

Industrial Wastewater Treatment Plant  
Operator, Class N-2

Sewerage Wastewater Treatment Plant  
Operator, Class S-2

OSHA 40-hour HAZWOPER

Project Management Training Program, H2M

# Joseph McNanna

Senior Project Scientist

system; conducted annual vapor intrusion investigation and reporting; monitored and documented compliance of institutional and engineering controls; prepared the Triennial Periodic Review Report, all in accordance with the NYSDEC-approved Site Management Plan. Conducted additional sampling for 1,4-dioxane and perfluorinated compounds, as required by the NYSDEC (property eliminated as a source of a nearby plume).

- Confidential Client Interim Remedial Measures Implementation; New York, NY: Conduct bimonthly product gauging at active generation facility; determine influence of tides on behavior and migration on separate phase product across the site, oversee vacuum enhanced fluid recovery (VEFR) to extract dielectric fluid. Prepare quarterly monitoring report, including running data tables. Maintain wells and conducted repairs of surface completions, as needed.
- Confidential Utility Client MOSF Monitoring; New York, NY: Coordinated and conducted Major Oil Storage Monitoring (MOSF), monitoring on a monthly basis and prepared monthly reports. Conducted annual groundwater sampling as per the NYSDEC MOSF permit. Prepared Annual Report for submission to NYSDEC. Maintained running database of gauging data.







# Michael A. Nicosia

Staff Scientist



Mr. Nicosia is a staff scientist responsible for performing various types of environmental sampling, including soil, groundwater, air, soil gas, sediment, and surface water sampling. Additional responsibilities include coordination with laboratories and subcontractors, field supply management, maintenance and calibration of field equipment, database management, data tabulation, and data review. Mr. Nicosia prepares electronic data deliverables (EDDs); site maps and groundwater contour maps; and assists in preparation of Work Plans, Health and Safety Plans (HASPs), Quality Assurance Project Plans (QAPPs), technical reports, and other regulatory submissions.

## Selected project experience

### Education

B.A., Communications;  
William Paterson University

### Licenses/ Certifications

NJDOH Lead Inspector/Risk Assessor  
NYSDOL Asbestos Inspector  
OSHA 30-Hour Construction Safety & Health  
OSHA 10-Hour Construction Safety & Health  
OSHA 40-Hour HAZWOPER

- Various Utility Infrastructure Construction Projects; Various Locations, NJ: Performed inspections and coordination of contractors on various infrastructure projects, including stormwater improvements, sanitary sewer connections, milling/paving, concrete sidewalks, water main installations, and lead service line replacements. Responsible for preparing daily field reports, recording field measurements and preparing quantity takeoffs, maintaining and tracking pay items, preparing drawings in AutoCAD, acquiring GIS data for project closeouts, and enforcing specifications from regulatory/governing agencies.
- Confidential Client; Princeton NJ: Reviewed site conditions and assisted in the preparation of a Spill Prevention, Control, and Countermeasure (SPCC) Plan for a financial institution data center. Assisted in the development of SPCC training program including Power Point slides and coordination of on-site training.
- NJDEP Former Dry Cleaner Sites; Various Locations, NJ: Performed sub-slab and near-slab soil gas sampling at former drycleaner sites in Bergen, Essex, Hudson, Passaic, and Union counties. Provided NJ One-Call notifications for utility mark-out and oversaw geophysical surveys performed by subcontractor. Tabulated soil gas and ambient air sample data and compared results to NJDEP standards. Prepared site figures with call-out boxes depicting analytical results with exceedances of the applicable soil gas screening level. Created Hazsite EDDs for laboratory analytical deliverables.
- Monmouth County Highway District #5 Former DPW and Fire Academy Site; Freehold and Howell, NJ: Provided oversight of soil boring and monitoring well installation, logged soil, and prepared soil boring and well construction logs. Performed low flow groundwater sampling for metals, VOCs, and PFAS compounds. Calculations and generated groundwater contour maps and prepared data tables and site figures presenting the groundwater data against applicable standards. Prepared data packages in accordance with NJDEP Hazsite EDDs for submission to NJDEP.
- Confidential Client; Linden NJ: Supported monthly sampling, monitoring and routine maintenance activities at water treatment facility, assisted in the preparation, generation and analysis of Discharge Monitoring Reports (DMRs) to ensure compliance with local water quality and environmental standards.
- Remedial Investigation of Sprint Auto Service Center; North Bergen, NJ: Conducted groundwater sampling for petroleum impacts using low-flow groundwater sampling methods. Calibrated equipment, recorded field parameters, prepared chains of custody, and coordinated with the analytical laboratory. Tabulated and reviewed data for exceedances of groundwater standards. Prepared data packages in accordance with NJDEP Hazsite EDDs. Created analytical data tables (using EQulS and Excel) and site figures (Using AutoCAD and ArcGIS) and assisted LSRP in preparation Remedial Action Report.
- Diamond Express; Newark, NJ: Performed free product gauging and low-flow groundwater sampling. Performed data tabulation, created groundwater contour maps, and concentration isopleth maps, and prepared Hazsite EDDs. Assisted LSRP in plume analysis.
- NJDPMC Katzenbach School for the Deaf; Ewing, NJ: Assisted in the preparation of Work Plans, QAPPs, HASPs, and contractor bids for geophysical surveying, soil sampling, analytical laboratory, surveying, third party data validation, and investigation derived waste (IDW) disposal.
- Various Insurance Clients Residential Spill Investigation and Remediation Oversight; Various Locations, NJ: Conducted soil and groundwater investigations for numerous residential heating oil spills and releases. Provided oversight of soil boring installation and monitoring well installation, collected soil samples, and provided oversight during remediation. Collected post-remediation confirmatory samples and assisted in preparation of reports to document investigation and remediation activities.
- L3 Harris; Clifton, NJ: Performed quarterly groundwater sampling using passive diffusion bag (PDB) samplers. Performed well gauging, prepared groundwater isopleth maps, updated groundwater data tables, and evaluated for trends.



# Richard B. Schommer, Jr. P.E., P.P., CME

Department Manager - Civil Engineering



Mr. Schommer holds licenses in Professional Engineering, Professional Planning, and is a Certified Municipal Engineer in the State of New Jersey. Mr. Schommer has more than 40 years of experience as a consulting engineer in New Jersey.

Mr. Schommer is responsible for the successful implementation of civil engineering design and construction projects throughout the State of New Jersey for both public and private clients.

## Selected project experience

- Projects encompass site planning for multi-family residential, commercial, industrial, and retail developments; subdivision design for single-family residential communities; municipal engineering services; public infrastructure improvement design; engineering studies for the New Jersey Department of Transportation (NJDOT); septic system investigation and design for both residential and commercial applications; as well as site assessments, feasibility studies, and related consulting services.
- Engineering design experience includes the preparation of subdivision plans, site plans, and related civil engineering projects. Services include preparation of initial feasibility studies, concept plans, preliminary design plans, through final construction plans and construction administration services.
  - Carriage Homes at Spring Brook; Morris, NJ: This project involved subdividing land from the Spring Brook Country Club to develop 13 single-family homes under a Homeowners Association (HOA) model, differing from the traditional single-family subdivision. As project manager and engineer of record, led all phases of the development, from initial feasibility studies, site surveys, and conceptual planning to the preparation of detailed site plans approved by the Township. Key infrastructure components included a new private onsite access road, offsite utility extensions, and a comprehensive stormwater management system designed to meet New Jersey Department of Environmental Protection (NJDEP) standards, incorporating Best Management Practices (BMPs) for water quality, infiltration, and runoff control.
  - Sisters of Charity of Saint Elizabeth; Florham Park, NJ: For over a decade, has provided consulting engineering services to the Sisters of Charity of Saint Elizabeth (SCSE), supporting the planning, development, and construction efforts across their 150-acre campus, home to the SCSE administration and residences, St. Elizabeth University, and the Academy of St. Elizabeth. Most recently, developed comprehensive engineering and architectural plans for a new addition to the Administration Building, completed in 2024 and dedicated as the Caritas Center. Other recent projects include the design of a new access roadway and parking facilities for the residential areas, a new sanitary sewer pump station, and an upgraded on-site water distribution system serving the entire campus.
  - Borough of Butler Water Treatment Plant; Kinnelon, NJ: To support the expansion and upgrade of the Butler Water Treatment Facility in compliance with state mandates, H2M designed a new access road and associated infrastructure to facilitate on-site building improvements. The project required construction through environmentally sensitive areas, necessitating extensive permitting and approvals from the NJDEP under the New Jersey Freshwater Wetlands and Flood Hazard Area Control Act regulations. The roadway design, which traverses forested land, included a stormwater management system engineered to meet NJDEP major development standards, ensuring protection of the adjacent Stone House Brook by minimizing runoff and environmental impact.
  - 100 Ridgedale LLC; Morristown, NJ: Provided comprehensive site planning, engineering, and design services for all phases of site development, including securing approvals from the Town, Morris County, and the NJDEP. The project involved the preparation of detailed plans for a land subdivision and the design of a new retail building with associated parking and site infrastructure. Extensive permitting was secured from the NJDEP for construction within a flood hazard area adjacent to the Whippany River, as well as for activities within regulated wetlands. The team also implemented mitigation measures and conducted environmental investigations and studies to support redevelopment of the site from a former auto repair use to the new retail use.

## Education

B.S., Civil Engineering; University of New Hampshire

## Licenses/Certifications

Professional Engineer: NJ

Professional Planner: NJ

Certified Municipal Engineer: NJ

## Publications/Presentations

"Combined Siphon Design Solves Sewer Connection Problem"  
Water and Wastewater International, 1991

## Memberships

American Council of Engineering Companies

New Jersey Society of Municipal Engineers

Rotary Club of Morristown, member 2000 to present, Past President, 2012- 2013

## Volunteer

Rotary Club of Morristown, member 2000 to present, Past President, 2012- 2013

Trustee, Morristown Green, Morristown, NJ


Board Member, Chester Township Board of Health, Chester Township, NJ

## Honors/Awards

Consulting Engineers Council of New Jersey; Grand Award recipient; Engineering Excellence Awards, 1991

Next →





# Richard B. Schommer, Jr.

P.E., P.P., CME

Department Manager -  
Civil Engineering

- 535 MLK Blvd, LLC; Newark, NJ: Site planning, engineering, and design for all phases of site work, and obtaining approvals from the City of Newark and NJDEP for the Boulevard, a mixed-use project in a seven-story building, 40 apartments, commercial space, and two levels of parking.
- Park View Partners, LLC; Morristown, NJ: Site planning, engineering, and design for all phases of site work, and obtaining approvals from the Town for Park View, a mixed-use project in a four-story building that includes 40,000 square feet of office, retail, and parking space.
- Experience include preparation of numerous engineering studies for stormwater management and flood plain studies utilizing HEC-RAS and stormwater computer models; storm sewer design; roadway design; sanitary sewer and water distribution systems; and testing and design of individual subsurface sewage disposal (septic) systems.
- Extensive experience in the permitting process with the NJDEP, NJDOT, and other local, county, and state agencies.
- Municipal experience includes the design of infrastructure improvements such as roadway reconstruction, drainage enhancements, and related municipal projects. Mr. Schommer has served as an engineering consultant, conducting technical reviews of engineering plans and development applications for municipal review boards. His past clients include the Township of Chatham Board of Adjustment and the Mendham Borough Planning Board. He currently serves as the Engineering Consultant to the Jefferson Township Land Use Board.
- Mr. Schommer has extensive experience representing clients and providing expert testimony at public hearings before municipal planning boards, zoning boards, and boards of health across numerous municipalities throughout New Jersey. He has been recognized as an expert witness in engineering and planning for land use applications and has been qualified in New Jersey Superior Courts on behalf of both private clients and the State.



# NEW JERSEY DIVISION OF CONSUMER AFFAIRS



## License Information

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**Name:** RICHARD B SCHOMMER JR

**Address:** CHESTER,NJ

**Profession/License Type:** Engineers & Land Surveyors,Professional Engineer

**License No:** 24GE03253400

**License Status:** Active

**Status Change Reason:**

**Issue Date:** 8/1/1987

**Expiration Date:** 4/30/2026

**SPL:**

NO Board Actions. For more information contact the New Jersey State Board of Professional Engineers and Land Surveyors (973)504-6

## Documents

No Public Documents

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# NEW JERSEY DIVISION OF CONSUMER AFFAIRS



## License Information

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**Name:** RICHARD B SCHOMMER JR

**Address:** CHESTER,NJ

**Profession/License Type:** Professional Planners,Professional Planner

**License No:** 33LI00382000

**License Status:** Active

**Status Change Reason:**

**Issue Date:** 3/1/1988

**Expiration Date:** 5/31/2026

**SPL:**

NO Board Actions. For more information contact the New Jersey State Board of Professional Planners (973)504-6465

## Documents

No Public Documents

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# Tomas Matias P.E., CME

Project Engineer - Civil Engineering



Mr. Matias is a project engineer with varied experience in civil/site design, water supply and distribution design, construction administration, and inspection. Design work includes site layout and grading, storm drainage design, roadway design, water and sewer infrastructure, and erosion and sediment control. His responsibilities include reviewing permit applications, shop drawings, and submittals, as well as managing SEQRA compliance and environmental oversight for construction, water, and wastewater consulting projects.

## Selected project experience

- Various Clients Lot Grading, Septic Disposal System, and Related Site Improvements; Various Locations: Prepared and submitted permit applications for lot grading plans, septic system designs, and associated site improvements for private development projects. Responsibilities included engineering design and drafting, site layout and grading, zoning compliance analysis, and the preparation of stormwater management reports and operation and maintenance manuals in accordance with New Jersey Department of Environmental Protection (NJDEP) Major Development Stormwater regulations. Conducted construction inspection activities, including soil sampling and single-ring infiltration testing, to ensure compliance with municipal and state regulatory requirements.
- The Peck School Athletic Field Improvements and NJDEP Freshwater Wetlands and Flood Hazard Area Permitting; Morristown, NJ: Served as the design engineer for the development of site plans for new athletic fields, including both natural grass and synthetic turf surfaces, as well as enhancements to spectator viewing areas. Due to the site's proximity to regulated waters and freshwater wetlands, NJDEP permits were required. Site improvements also necessitated municipal approvals, including a Variance Plan application submitted to the Board of Adjustment. Designed stormwater management systems in compliance with NJDEP Major Development Stormwater Management regulations to support the new turf field. Following receipt of all permits and approvals, managed construction administration and provided on-site inspection to ensure adherence to design specifications.
- Hutchinson Valley Trunk Sewer Rehabilitation; Eastchester, NY: Managed the repair of a trunk sewer along the Hutchinson River Parkway, serving as Project Manager overseeing permitting, bid coordination and hosting, construction administration, and third-party inspection oversight. Responsibilities also included managing the abandonment of sanitary structures located within an active stream. Due to site constraints such as bedrock conditions and regulatory restrictions, the project team developed and implemented an adaptive plan to maintain continuous operation of the trunk sewer during construction. The project was completed ahead of schedule and 10% under budget, earning recognition with an ACEC New York Engineering Excellence Award.
- Various Clients Municipal Road Reconstruction Projects; Various Locations: Projects were funded through Municipal Aid Grants and Community Development Block Grants (CDBG), with responsibilities including full grant administration and compliance oversight.
- Crane Street Roadway Reconstruction; Little Falls, NJ: Worked under the supervision of the Township Engineer to design and prepare plans and specifications for a roadway reconstruction project, which included the installation of 1,800 linear feet of Belgian block curbing, drainage system upgrades, and new sidewalk construction. Provided construction administration services, including shop drawing reviews, field inspections, payment application reviews, and preparation of progress reports for submission to the New Jersey Department of Transportation (NJDOT).
- Beacon Hills Water Distribution Improvements; Fishkill, NY: Assisted in the preparation of the engineer's report, grant application, cost estimates, and project financing for the installation of 20,000 linear feet of new water mains and modifications to an existing pump station. Developed detailed design plans and secured approvals from local and state Departments of Health (DOH). Successfully obtained \$3 million in grant funding. Responsibilities included construction administration, grant management, inspection coordination, phased DOH approvals for completed work, and ongoing client communication and support throughout the project.

## Education

M.S., Civil Engineering; Manhattan College

B.S., Biological Engineering with a minor in Environmental Engineering, Watershed/Water Resources Management; Pennsylvania State University

## Licenses/ Certifications

Professional Engineer: NY, NJ, CT

Certified Municipal Engineer: NJ

## Memberships

New Jersey Society of Municipal Engineers

New York Water Environment Association (NYWEA)

Alpha Epsilon Honor Society of Agricultural, Food, and Biological Engineering

Society of Hispanic Professional Engineers

Pi Kappa Phi Fraternity

Next →



# Tomas Matias

P.E., CME

Project Engineer - Civil Engineering

- Smith Clove ADA Improvements; Woodbury, NY: Responsible for the design and preparation of plans and specifications, as well as construction administration, for ADA sidewalk improvements along Smith Clove Road in Woodbury, NY. The project included installation of 12 ADA-compliant curb ramps near Smith Clove Elementary School and the public library. Coordinated with Orange County for the successful acquisition of Community Development Block Grant (CDBG) funding.
- Rye Lake UV Treatment Building; Rye Lake, NY: Responsible for civil site design, including the development of plans and specifications, as well as stormwater management design and preparation of a Stormwater Pollution Prevention Plan (SWPPP). Secured approvals from the New York City Department of Environmental Protection (NYCDEP), and New York State Department of Environmental Conservation (NYSDEC) and provided support in representing the project at Town Board meetings.
- Lakeview Shopping Plaza Retaining Wall; Brewster, NY: Performed civil site design and prepared construction drawings for the reconstruction of a 50,000 square foot retaining wall at Lakeview Shopping Plaza. Scope included stormwater management design, preparation of a SWPPP, securing regulatory approvals, and representing the project before local Planning and Architectural Review Boards. Also provided construction administration services throughout the project.
- Washingtonville STP Upgrade and Expansion; Washingtonville, NY: Provided construction administration services, including review of shop drawings and submittals, field inspections, coordination of progress meetings, evaluation of payment applications, and preparation of project closeout documentation.
- Water and Sewer Department General Assistance; Woodbury, NY: Provided design and construction administration for a 1.0 MG concrete ground storage tank, including design, DOH submissions, and construction oversight for water distribution projects. Managed bidding and construction administration for a pre-engineered metal storage building. Assisted with FEMA disaster claims and project administration, as well as preparation of Water and Sewer Engineer's reports for regulatory agencies as required.
- Water Main Improvements; Nyack, NY: Assisted in preparing the Engineer's report and grant applications, contributing to the successful award of \$3 million in funding. Oversaw construction administration and managing grant compliance throughout the project.





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## License Information

Accurate as of May 06, 2024 2:42 PM

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**Name:** TOMAS MATIAS

**Address:** Boonton,NJ

**Profession/License Type:** Engineers & Land Surveyors,Professional Engineer

**License No:** 24GE05816700

**License Status:** Active

**Status Change Reason:** License Issuance

**Issue Date:** 5/16/2022

**Expiration Date:** 4/30/2026

**SPL:**

NO Board Actions. For more information contact the New Jersey State Board of Professional Engineers and Land Surveyors (973)504-6

## Documents

No Public Documents

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# Cary F. Hilla E.I.T.

Staff Engineer - Civil Engineering



Mr. Hilla is a staff engineer with experience in water, wastewater, stormwater, and site/civil, projects. He is also experienced in providing construction inspections. Mr. Hilla is proficient in AutoCAD, Newforma, and Microsoft Project.

## Selected project experience

- Borough of Brielle Improvements to Fisk Avenue; Brielle, NJ: Designed and drafted municipal road project plans and specifications, including sidewalks, curb, and curb ramps, in accordance with ADA standards. Coordinated with the New Jersey Department of Transportation (NJDOT) through the PMRS system to secure NJDOT funding. Assisted in the bid selection process and managed construction operations throughout the project. Maintained regular communication with contractor and reviewed project daily reports from construction observers.
- Borough of Highlands Phase I Sanitary Road Reconstruction; Highlands, NJ: Designed and drafted supplementary road reconstruction plans for a uniquely dense project location, including installation of new roadway, curb, and sidewalk. Meticulously conformed design to minimize impact to homeowners' existing property while achieving positive drainage to stormwater system structures. Managed homeowner interaction to ensure smooth installation process. Maintained communications with construction observers to ensure adequate design implementation and reviewed daily construction reports.
- Various Clients Stormwater Design Review; Various Locations, NJ: Analyzed and reviewed stormwater design projects in accordance with New Jersey Department of Environmental Protection (NJDEP) Stormwater Management standards. Utilized the NJDEP Best Management Practices Manual to identify design flaws in unique project settings.
- Borough of Brielle MS4 Compliance; Brielle, NJ: Detected and reported field observed the Borough stormwater utility using GPS locating unit. Imported GPS data to ArcGIS and created NJDEP MS4 mapping. Created infographics to be utilized as public service announcements for NJDEP's Stormwater Awareness Program. Identified municipal stormwater compliance insufficiencies to be corrected.
- Borough of Brielle Union Lane Phase I; Brielle, NJ: Reviewed and revised CAD design plans for municipal road paving and stormwater improvements. Interacted daily with contractor onsite to ensure compliance with project plans and H2M safety standards. Produced inspection reports for each on-site construction task throughout project duration.
- Long Branch Board of Education High School Tennis Court Rehabilitation; Long Branch, NJ: Obtained field measurements and calculated material requirements for the full rehabilitation of tennis courts. Observed site construction process, reported inconsistencies in existing project conditions, and cooperated with contractor to establish best remediation.
- Township of Lakewood Prospect Street Water Main Improvements; Lakewood, NJ: Designed and drafted water distribution mains as extensions and replacements of existing water main networks. Prepared permit application packages for local, county, and state agencies. Prepared traffic control plans for utility projects and road opening permits.
- Various Clients Pipeline Encroachment Analysis; Various Locations, NJ: Reviewed incoming encroachment projects for proposed crossings in accordance with client operating and code requirements. Calculated loads affecting pipeline from existing and proposed developments. Coordinated with pipeline representatives to minimize pipeline conflicts for numerous projects.
- New Jersey American Water 2nd Ave Lift Station Improvements; Mount Ephraim, NJ: Designed and drafted sanitary sewer pump stations and gravity sewer replacements in aging system with high infiltration and inflow. Performed feasibility and route studies to determine best option for force main routing. Prepared extensive cost estimate for basis in bidding process.
- Borough of East Windsor Town Center Road Sanitary Improvements; East Windsor, NJ: Designed and drafted gravity sewer replacements and force main relocation in area with significant grade changes. Prepared technical specifications for bidding and regulatory agency reviews. Evaluated numerous design options to ensure project success and regulatory compliance.

## Education

B.S., Construction Engineering and Management; Virginia Polytechnic Institute and State University

## Licenses/ Certifications

Engineer-in-Training: NJ  
OSHA 30-Hour Construction Safety & Health

## Memberships

American Water Works Association (AWWA)

# Cary F. Hilla

## E.I.T.

Staff Engineer - Civil Engineering

- City of Orange Township Chestnut Street Water Treatment; Orange, NJ: Designed and drafted PFAS ion exchange removal system in a compact project area for an existing water pump station to comply with NJDEP standards. Observed construction, provided daily reports of progress, and solved problems in real time. Utilized time effectively during design and construction tight project schedule.
- Town of Morristown Sanitary Sewer Rehabilitation, Morristown, NJ: Reviewed sewer flow data and CCTV footage to determine pipe failure locations in outdated sewer system. Designed and drafted pipe replacements and remediation plans for cast-in-place pipe liner on structurally capable pipe segments. Determined optimal design for construction in high-traffic area.







# Alan P. Hilla Jr. P.E., P.P., CME

Vice President, Central Jersey Office Director



Mr. Hilla has 35 years of experience in the state of New Jersey as a professional engineer and professional planner. As a licensed professional in these two areas, he has provided consulting services as an Engineer of Record, Zoning Officer, Land Use Engineer, and Municipal Planner for municipalities such as the Boroughs of Brielle, Lake Como, Spring Lake, Keyport, Manasquan, Bradley Beach, Eatontown, Keansburg, Tinton Falls, South Toms River, Pompton Lakes, Township of Wall, and the City of Long Branch.

## Selected project experience

- Borough of Brielle New Jersey Department of Transportation (NJDOT) Municipal Aid Improvements to Fisk Avenue Phases I and II; Brielle, NJ: Engineer of Record for the design and construction of roadway improvements spanning from State Highway Route 71 to Three Bridges, including curb, sidewalk and driveway apron replacement, drainage system improvements, and pavement sub-base repair prior to pavement renewal and line striping. The construction cost for this project was approximately \$600,000.
- Borough of Brielle NJDOT Municipal Aid Improvements to Green Avenue Phases I and II; Brielle, NJ: Engineer of Record tasked with the design and construction of roadway improvements spanning from Union Lane to the Green Avenue Bridge, including curb and driveway apron replacement, drainage system improvements, and pavement sub-base repair prior to pavement renewal and line striping. The construction cost for this project was \$310,000.
- Essex County Improvement Authority Fuel Tank Replacement; Fairfield, NJ: Project Engineer responsible for all aspects of civil engineering and site improvements necessary for the replacement of a fuel tank at the Essex County Airport. The project costs totaled \$1.6 million.
- Borough of Manasquan Main Street Beach Office and Addition and Improvements; Manasquan, NJ: Project Manager and Engineer responsible for all aspects of the enhancement and addition to a beachside office space on Main Street in Manasquan. This included mold remediation, structural evaluation, building remodeling, exterior recladding, and drainage improvements to extend the useful life of the essential oceanfront facility. Additional services performed prior to the building's re-opening for the 2021 summer season included evaluation, coordination, remediation, design, bidding, and construction administration/inspection, together valued at \$750,000.
- NJDOT Municipal Aid Improvements to Union Lane Phases II and III; Brielle, NJ: Engineer of Record for the design and construction of roadway improvements spanning from State Highway Route 71 to the Manasquan River, including curb and driveway apron replacement, drainage system improvements, and pavement sub-base repair prior to pavement renewal. The construction cost for this project was approximately \$294,000.
- Long Branch Board of Education Morris Avenue School Parking Lot Expansion; Long Branch, NJ: Engineer of Record for the lateral addition of an existing parking lot serving the Morris Avenue School. The scope of work included pavement expansion, stormwater management, site lighting, security, traffic pattern design, and soil conservation permitting.
- Borough of Brielle ADA Accessibility Improvements at Borough Hall; Brielle, NJ: Engineer of Record responsible for overseeing the installation of ADA-related improvements at Borough Hall, including a ramp leading up the building entrance, vestibule lift from the building lobby to the first floor, and bathroom fixtures to achieve ADA compliance.
- Borough of Pompton Lakes Morris Canal Greenway Project; Pompton Lakes, NJ: Engineer of Record responsible for the final design, NJDEP permitting, and construction of nearly one mile of stabilized gravel trail paralleling the edge of the Ramapo River, complete with site furniture, native landscaping, playground modification, and interpretive/wayfinding signage. With project implementation costs totaling \$300,000, the project earned the 2019 Distinguished Project award from the American Council of Engineer Companies.
- Borough of Brielle NJDOT Municipal Aid Improvements to Valley Road Phase II; Brielle, NJ: Engineer of Record tasked with the design and construction of roadway improvements spanning from Birch Drive to Riverview Drive (CR. 48), including curb and driveway apron replacement, drainage system improvements, and pavement sub-base repair prior to pavement renewal. The construction cost for this project was \$280,000.

## Education

B.S., Civil Engineering; Rutgers University

## Licenses/ Certifications

Professional Engineer: NJ, NY, PA

Professional Planner: NJ

Certified Municipal Engineer (CME)

## Trainings

NJDEP Stormwater Management Design Review Course (2018 and 2023)

NJDEP Stormwater Management Rule Amendment Training (2023)

## Memberships

New Jersey Society of Municipal Engineers



# NEW JERSEY DIVISION OF CONSUMER AFFAIRS



## License Information

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[Return to Search Results](#)

**Name:** ALAN PAUL HILLA JR

**Address:** Brielle,NJ

**Profession/License Type:** Engineers & Land Surveyors,Professional Engineer

**License No:** 24GE03944200

**License Status:** Active

**Status Change Reason:**

**Issue Date:** 9/20/1995

**Expiration Date:** 4/30/2026

**SPL:**

NO Board Actions. For more information contact the New Jersey State Board of Professional Engineers and Land Surveyors (973)504-6460

## Documents

No Public Documents

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# NEW JERSEY DIVISION OF CONSUMER AFFAIRS



## License Information

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**Name:** ALAN P HILLA JR

**Address:** Brielle, NJ

**Profession/License Type:** Professional Planners, Professional Planner

**License No:** 33LI00540700

**License Status:** Active

**Status Change Reason:** Reinstatement

**Issue Date:** 7/11/1997

**Expiration Date:** 5/31/2026

**SPL:**

NO Board Actions. For more information contact the New Jersey State Board of Professional Planners (973)504-6465

## Documents

No Public Documents

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# Sanyogita Chavan P.P., AICP

Practice Leader - Land Use Planning



Ms. Chavan is a professional planner with 30 years of professional experience, which includes seven years of experience in architecture and more than 20 years in land use planning. She has expertise in all aspects of land use planning with profound knowledge of the New Jersey Municipal Land Use Law, affordable housing, redevelopment statutes, and environmental regulations. Ms. Chavan has the ability to coordinate and collaborate with various stakeholders to meet community needs. Prior to joining H2M, Ms. Chavan served as Director of Planning for the Township of Middletown.

## Selected project experience

- **Municipal Planning:** Serves as planning consultant to planning and zoning boards, providing staff reports and expert testimony on development applications, master plans, affordable housing, ordinance revisions, redevelopment plans, and other planning studies for the following municipalities: Mendham, New Providence, Hackensack, Long Branch, Howell, Little Falls, West New York, Cranford, and Rivervale. Served as Council on Affordable Housing (COAH) Planning Consultant for Spring Lake, Barnegat, Cranford, Brielle, Leonia, Borough of Pompton Lakes, Little Falls, and Rivervale.
- **Township of Middletown, Monmouth County, NJ:** Oversaw the Planning Department of the 45-square-mile municipality with a population of +/- 66,522 and operating budget of \$53 million. Directed personnel to ensure efficient service to Township residents, developers, and Boards and Commissions. The Department addressed sustainability and resilience, strategic planning, master planning, open space, zoning and development review, historic preservation, redevelopment, affordable housing planning and administration, GIS, and provided support to the Planning Board and Zoning Board of Adjustment. Oversaw the Township's Open Space Program. Provided technical advice to the Township's Planning and Zoning Board, and the Township Committee on affordable housing, redevelopment, and planning and zoning matters. Oversaw preparation of the Master Plan, Redevelopment Investigations, and Plans. Negotiated on behalf of the municipality, the Township's affordable housing obligations and initiatives. Managed the Township's affordable housing program. Set the Department's annual budget, adopting innovative ways to ensure flow of revenue, and cutting costs without compromising service. Worked with consultants on post-Sandy projects to rebuild affected areas. Conducted design charrettes and public information sessions to collaborate with stakeholders and residents. Collaborated with the Township's economic development committee to provide innovative ways to generate tax revenue.
- **Master Plans:** Project Manager for the development of comprehensive Master Plans for small and large communities, including extensive community building, charrettes, public participation and graphic representation.
  - Township of Little Falls, NJ – Comprehensive Master Plan
  - Township of Monroe, NJ – Comprehensive Master Plan
  - Township of Verona, NJ – Comprehensive Master Plan
  - Borough of Leonia, NJ – Comprehensive Master Plan
  - Town of Westfield, NJ – Unified Land Use and Circulation Plan
  - Township of Little Falls, NJ – Master Plan Reexamination Report
  - Township of Barnegat, NJ – Land Use Plan and Historic Preservation Plan
  - Union County, NJ – Parks, Open Space and Recreation Master Plan
- **Zoning Ordinances and Development Guidelines:** Authored Land Use Ordinances for communities, including comprehensive re-writes and revisions to zoning and subdivision regulations.
  - Zoning Ordinance Updates – Township of Verona, NJ
  - Zoning Ordinance Updates – Borough of Pequannock, NJ
  - Downtown Urban Design Guidelines – New Providence, NJ
  - Commercial Rezoning Analysis – Eatontown, NJ
  - Atlantic City Tourism District Zoning District Regulations – Atlantic City, NJ
  - Highest and Best Use Analysis – Edison, NJ
  - Jackson Towne Centre, Traditional Neighborhood Development Zoning Ordinance and Design Regulations – Jackson, NJ
  - Historic District Design Guidelines – Barnegat Township, NJ
  - Commercial Design Guidelines – Barnegat Township, NJ
  - Stormwater management, outdoor seating, sign and mixed use ordinances, tree preservation, overlay zoning

Next →

## Education

Master of Urban Planning; University of Michigan, Ann Arbor

Bachelor of Architecture; University of Bombay

## Licenses/ Certifications

Professional Planner: NJ

American Institute of Certified Planners (AICP)

## Memberships

American Planning Association,  
New Jersey Chapter, Member of the  
Redevelopment Committee

Indian Institute of Architects

# Sanyogita Chavan

## P.P., AICP

Practice Leader - Land Use  
Planning

- Recreation, Open Space Plans, Environmental Impact Studies (EIS) and Fiscal Impact Studies (FIS): Managed projects ranging from complex strategic parks and recreation plans for Counties to the preparation of Environmental Resource Inventories and Farmland Preservation plans for municipalities to EIS and EO-215 State Environmental Assessments.
  - Open Space and Recreation Plan – Andover, NJ
  - Environmental Resource Inventory – Barnegat, NJ
  - Union County Parks, Open Space and Recreation Master Plan – Union County, NJ
  - Environmental Resource Inventory – Oldmans Township, NJ
  - Farmland Preservation Plan – Howell, NJ
  - NJSDA EO-215 Environmental Assessment – Paterson, NJ
  - Dozens of EIS and FIS Reports for Private Development Projects
- Affordable Housing: Extensive experience in affordable housing and related housing issues and has prepared Housing Elements, Fair Share Plans and represented municipalities in COAH mediation and helped defend municipalities in affordable housing litigations.
  - Housing Element and Fair Share Plans – Mendham, River Vale, Pompton Lakes, Leonia, Brielle, Cranford, Spring Lake, and Barnegat, NJ
  - Court and COAH Mediation – Township of Middletown and Borough of Spring Lake
- Redevelopment: Prepared Needs Studies and Redevelopment Plans for municipalities throughout New Jersey ranging from small one lot plans to the study and design of a 250-acre neighborhood. Experience includes:
  - 320 Bloomfield Avenue Need Study – Verona, NJ
  - 383 Bloomfield Avenue Need Study – Verona, NJ
  - Grand Avenue and Willow Tree Redevelopment Plan – Leonia, NJ
  - Grand Avenue and Station Parkway Need Study – Leonia, NJ
  - Grand Avenue and Willow Tree Need Study – Leonia, NJ
  - Paterson Avenue Redevelopment Plan – Little Falls, NJ
  - Market Street Redevelopment Plan – City of Passaic, NJ
  - Municipal Building Need Study and Redevelopment Plan – Middletown, NJ
  - 6600 Park Avenue Needs Study and Redevelopment Plan – West New York, NJ
  - Gunning River Road Need Determination Study - Barnegat, NJ
  - Shoreline Sand and Gravel Need Determination Study – Barnegat, NJ
- Prepares concept plans and represents clients to provide expert testimony in planning at public hearings before pertinent municipal boards throughout New Jersey for use variances, bulk variances, and design waivers in support of land development projects.







# NEW JERSEY DIVISION OF CONSUMER AFFAIRS



## License Information

Accurate as of June 06, 2024 8:45 AM

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**Name:** SANYOGITA S. CHAVAN

**Address:** Morristown, NJ

**Profession/License Type:** Professional Planners, Professional Planner

**License No:** 33LI00593300

**License Status:** Active

**Status Change Reason:** License Issuance

**Issue Date:** 3/10/2006

**Expiration Date:** 5/31/2026

**SPL:**

NO Board Actions. For more information contact the New Jersey State Board of Professional Planners (973)504-6465

## Documents

No Public Documents

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# Carmela R. Schommer L.L.A.

Senior Landscape Architect



## Education

B.S., Environmental Planning and Design,  
Landscape Architecture; Rutgers University

## Licenses/ Certifications

Licensed Landscape Architect: NJ

## Memberships

New Jersey American Society of  
Landscape Architects

New Jersey Nursery and  
Landscape Association

Native Plant Society of New Jersey

Great Swamp Watershed Association

Ms. Schommer is a landscape architect with more than 40 years of diverse site development experience. Her range of experience includes land evaluation for land use planning, landscape architecture, wetlands delineation, environmental permitting, and project management. She has provided expert interpretation and assessment of projects related to land use regulation. Furthermore, Ms. Schommer represents clients to provide expert testimony at public hearings before municipal planning boards and boards of adjustment as an expert witness in landscaping and site planning.

### Selected project experience

- The Carriage Houses at Spring Brook; Morris, NJ: Led conceptual site planning and prepared detailed site layout, grading, lighting, landscaping, soil erosion and sediment control plans, and construction details for a single-family residential development. Additionally, performed zoning analysis and developed plans for tree removal and replacement.
- Uma Flowers, Inc. Cannabis Dispensary Facility; Morristown, NJ: Responsible for conceptual site planning and the development of site layout, grading, lighting, landscaping, soil erosion and sediment control plans, and construction details. Also conducted a comprehensive zoning analysis and provided construction administration services.
- Il Capriccio Ristorante; Hanover, NJ: Led the conceptual site planning and prepared detailed site layout, grading, lighting, landscaping, soil erosion and sediment control plans, and construction details for an Italian restaurant. Additionally, developed concept plans to support a proposed zoning change on adjacent properties to accommodate future multi-family housing and retail development.
- The Oratory School of Summit; Summit, NJ: Responsible for conceptual site planning, preparation of site layout, grading, lighting, landscaping, soil erosion and sediment control, and construction details for the project.
- St. Hubert's Animal Welfare Center; Madison, NJ: Responsible for conceptual site planning, preparation of site layout, grading, lighting, landscaping, soil erosion and sediment control, and construction details for an animal welfare center. Also provided zoning analysis and wetlands delineation. Worked to prepare New Jersey Environmental Protection (NJDEP) permitting to finalize project.
- Kearney Avenue Townhouse Development; Jersey City, NJ: Responsibilities included site layout, grading, lighting, landscaping, soil erosion, and sediment control. Provided zoning analysis, construction details, and construction administration for the City of Jersey City.
- Hamilton Lofts Apartments; Newark, NJ: Provided site layout, grading, lighting, landscaping, soil erosion, and sediment control for an apartment complex. Additionally, provided a zoning analysis and construction administration.
- Baltusrol Golf Club; Springfield, NJ: Provided site layout, grading, lighting, landscaping, soil erosion and sediment control plans, along with construction details, for a golf club. Also conducted zoning analysis and managed construction administration.
- Holy Name Cemetery; Jersey City, NJ: Responsible for conceptual site planning and providing project and construction management consultation for Holy Name Cemetery. Prepared the site layout, grading, lighting, landscaping, soil erosion and sediment control plans, and construction details.
- 9/11 Memorial; Lebanon, NJ: Responsible for conceptual site planning and the preparation of site layout, grading, lighting, landscaping, soil erosion and sediment control plans, and construction details. Provided project management and construction administration throughout the project.



# NEW JERSEY DIVISION OF CONSUMER AFFAIRS



## License Information

Accurate as of May 06, 2024 2:25 PM

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**Name:** CARMELA R SCHOMMER

**Address:** Chester,NJ

**Profession/License Type:** Landscape Architecture,Licensed Landscape Architect

**License No:** 21AS00081300

**License Status:** Active

**Status Change Reason:**

**Issue Date:** 9/27/1999

**Expiration Date:** 5/31/2026

**SPL:**

NO Board Actions. For more information contact New Jersey State Landscape Architect Examination and Evaluation Committee (973)504

## Documents

No Public Documents

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Public Agencies  
2025 Hourly Rate Schedule

Classification	2025 Rate
ADMINISTRATIVE SUPPORT PROFESSIONAL	\$ 95.00
DEPARTMENT MANAGER-SCI	\$ 250.00
DISCIPLINE SCIENTIST	\$ 185.00
ENVIRONMENTAL TECHNICIAN 1	\$ 75.00
ENVIRONMENTAL TECHNICIAN 3	\$ 135.00
PRACTICE LEADER-SCI	\$ 260.00
PROJECT ENGINEER 1	\$ 155.00
PROJECT ENGINEER 2	\$ 175.00
PROJECT SCIENTIST 1	\$ 130.00
PROJECT SCIENTIST 2	\$ 150.00
SR. ADMINISTRATIVE SUPPORT PROFESSIONAL	\$ 135.00
SR. DISCIPLINE ENGINEER	\$ 270.00
SR. DISCIPLINE SCIENTIST	\$ 220.00
SR. PROJECT ENGINEER 1	\$ 200.00
SR. PROJECT ENGINEER 2	\$ 220.00
SR. PROJECT SCIENTIST 1	\$ 165.00
SR. PROJECT SCIENTIST 2	\$ 185.00
STAFF ENGINEER 1	\$ 120.00
STAFF ENGINEER 2	\$ 130.00
STAFF SCIENTIST 1	\$ 100.00
STAFF SCIENTIST 2	\$ 110.00

1. Rates updated annually in January







## STATE OF NEW JERSEY BUSINESS REGISTRATION CERTIFICATE

**Taxpayer Name:** H2M ASSOCIATES, INC.  
**Trade Name:**  
**Address:** 119 CHERRY HILL ROAD, SUITE 110  
PARSIPPANY, NJ 07054-1114  
**Certificate Number:** 0068842  
**Effective Date:** November 01, 1979  
**Date of Issuance:** January 21, 2025

**For Office Use Only:**  
**20250121172545053**

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**New Jersey Office of the Attorney General**  
**Division of Consumer Affairs**



THIS IS TO CERTIFY THAT THE  
**Board of Prof. Engineers & Land Surveyors**

HAS LICENSED

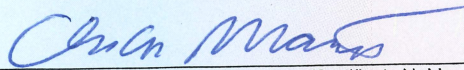
H2M ASSOCIATES, INC.  
CHARLES ANTHONY MARTELLO  
119 CHERRY HILL RD., STE. 110  
Parsippany NJ 07054

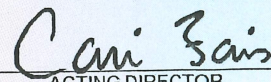
FOR PRACTICE IN NEW JERSEY AS A(N): Certificate of Authorization

Engineering  
Engineering & Land Surveying

08/08/2024 TO 08/31/2026  
VALID

24GA28019100  
LICENSE/REGISTRATION/CERTIFICATION #

  
Signature of Licensee/Registrant/Certificate Holder

  
ACTING DIRECTOR

**State Of New Jersey**  
**New Jersey Office of the Attorney General**  
**Division of Consumer Affairs**



THIS IS TO CERTIFY THAT THE  
LANDSCAPE ARCHITECTS EXAMINATION AND EVALUATION

HAS CERTIFIED

H2M ASSOCIATES INC  
CARMELA R SCHOMMER  
119 Cherry Hill Road - Ste 110  
Parsippany NJ 07054

FOR PRACTICE IN NEW JERSEY AS A(N): Certificate of Authorization

05/19/2025 TO 05/31/2027

VALID

**21MH00010300**

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A handwritten signature in cursive script, appearing to read "Carmela R Schommer".  
Signature of Licensee/Registrant/Certificate Holder

A handwritten signature in cursive script, appearing to read "Cari Zais".  
DIRECTOR





## ► Contract Reservations

### Contract Reservations

H2M reserves the right to negotiate reasonable insurance, liability, and claims provisions that are consistent with industry standards and the standard of professional care applicable by law.



## ENVIRONMENTAL CONSULTING, TESTING, OVERSIGHT AND MONITORING SERVICES

**FIRM:** H2M Associates, Inc.

**PROJECT:** ENVIRONMENTAL CONSULTING, TESTING, OVERSIGHT AND  
MONITORING SERVICES

1. Years of experience of firm particularly with respect to qualifications identified in the services and qualifications sections of the RFP.

(max. 10pts)\_\_\_\_\_

2. Years of overall experience of individuals proposed in relation to Environmental Consulting, Testing, Oversight & Monitoring services and the specific requirements of the RFP. (Must be identified in the proposal and must possess current New Jersey professional license for services proposed):

(max. 10 pts)\_\_\_\_\_

3. Experience with New Jersey law and local zoning, planning and building law codes and regulations and applicability of energy standards.

(max.20 pts) \_\_\_\_\_

4. Experience in analyzing and preparing reports on environmental issues and conditions, interpreting environmental data, monitoring compliance to all applicable federal, state, and local laws.

(max. 40 pts.)\_\_\_\_\_

5. Price:

(max. 20 pts.)\_\_\_\_\_

TOTAL\_\_\_\_\_

(Max. 100 pts)



architects + engineers



BUILDING COMMUNITIES SINCE 1933

\*ENTERPRISE CAPABILITIES