



110 Fieldcrest Ave, #8  
6<sup>th</sup> Floor  
Edison, NJ 08837  
Tel: 732-225-7000  
Fax: 732-225-7851

July 25, 2013

Mr. Judson Cross  
State of New Jersey  
Department of Treasury  
Division of Purchase and Property Procurement  
33 West State Street, 9<sup>th</sup> Floor  
Trenton, New Jersey 08625

Subject: Round 2 BAFO – RFQ787923S —Proposal for Environmental Assessment Field Contractors for Environmental and Historic Reviews, New Jersey’s CDBG-DR Grant Program

Dear Mr. Cross:

CDM Smith is pleased to submit the enclosed second best and final offer (Round 2 BAFO) for Environmental Assessment Field Contracting services to conduct Environmental and Historic Reviews under the State’s Community Development Block Grant Disaster Recovery (CDBG-DR) Grant Program. As per your letter dated July 24, 2013, we have thoroughly scrutinized all of the firm fixed price task items with the associated assumptions and we feel that the attached schedules represent CDM Smith’s best and final offer. Please note, our Round 2 BAFO is identical to our original BAFO.

We remain committed to assisting New Jersey in the recovery and rebuilding following Superstorm Sandy.

### **Quote Letter Acknowledgements**

As required in the Request for Quote (RFQ), CDM Smith acknowledges the following:

- CDM Smith has reviewed the RFQ, addenda and BAFO requests and understands the scope of work required by the State to complete environmental and historic preservation reviews.
- CDM Smith is a licensed engineering firm and is registered to do business in the State of New Jersey. If additional licenses or certifications are required to perform this project, we will obtain them.
- CDM Smith has not had a record of substandard work.
- CDM Smith operates under the guidance of five corporate core values—Excellence, Integrity, Shared Commitment, Team Work and Initiative—which are the fundamental principles that guide our collective and individual decisions, strategies and actions. CDM Smith has not had a record of unethical work practices.
- If awarded a contract for this project with the State, CDM Smith acknowledges responsibility for its share of the contract, including payment of any and all performance penalties included in the contract.





Mr. Judson Cross  
July 25, 2013

Page 2

- Thomas R. Schoettle, P.E., Vice President is the named individual authorized to negotiate and enter into an agreement between CDM Smith and the State on this project.

CDM's proposal includes our best representation of our firm's experience, as well as a proven approach with professional team members and SBE subcontractors that can get the job done. We look forward to the opportunity to work on this contract with the State. Please call me directly with any questions regarding the proposal at (732) 225-7000.

Very truly yours,

A handwritten signature in blue ink that reads "Maria Watt".

Maria D. Watt, P.E.  
Program Director  
CDM Smith Inc.

A handwritten signature in blue ink that reads "Thomas R. Schoettle".

Thomas R. Schoettle, P.E.  
Vice President  
CDM Smith Inc.

# Tab 12

## Cost Quote and Price Schedule/Sheet

### Best and Final Offer - July 25, 2013

#### CDM Smith Cost Estimate

#### Assumptions

- The applications CDM Smith receives for review will be reasonably accurate and will contain the information required to complete the required review. CDM Smith will not be responsible for obtaining additional information from applicants if necessary.
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- Signs of failing septic systems will be based on human perception of odor and visual signs of breakouts

# CDM Smith Best and Final Offer

July 25, 2013

**Cost Quote Price Schedule 2 EAF Contractor - Firm Fixed Pricing**  
 Pricing for services required under this RFQ will be a blend of firm fixed rates and hourly rates. Bidders must complete all price cells within the Price Schedule or be deemed non-responsive.

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3	Base Price per application for <b>Exempt</b> (Volume >200) Section 3.2.2	Each	100	\$130.69	\$13,068.90	\$135.00	\$13,500.18	\$139.46	\$13,945.68
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11	Base Price per application for <b>Tier 2 Site Specific Reviews</b> (Volume 101-200) Section 3.2.8	Each	100	\$2,376.00	\$237,600.19	\$2,454.41	\$245,440.99	\$2,535.41	\$253,540.55
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14	Reporting Functions Section 3.2.13, 3.2.14, 3.2.15	Month	12	\$9,900.00	\$118,800.00	\$10,226.70	\$122,720.40	\$10,564.18	\$126,770.17
15	Environmental Impact Statement Fee Section 3.2.2	Each	UNIK	\$3,000,000	\$3,009,000	\$3,009,000	\$3,009,000	\$3,201,267	\$10,339,283.19
					\$9,716,035.01		\$10,008,986.63		\$10,339,283.19



# CDM Smith Best and Final Offer

## July 25, 2013

### Cost Quote Price Schedule 2 EAF Contractor - Loaded Hourly Rate Pricing

A bidder must fit its existing personnel and that of proposed subcontractors in the following Labor Titles.

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<b>Office and Management Staff</b>				
16	Principal	\$240.17	\$248.10	\$256.29
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18	Task Manager	\$176.63	\$182.45	\$188.48
<b>Project Field Staff</b>				
19	Field Manager	\$176.63	\$182.45	\$188.48
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22	Principal/Senior Biologist	\$153.41	\$158.47	\$163.70
23	Principal/Senior Historic Preservation Specialist	\$153.41	\$158.47	\$163.70
24	Senior Hydrogeologist	\$153.41	\$158.47	\$163.70
25	Junior Hydrogeologist	\$115.41	\$119.22	\$123.16
26	Field Associate	\$118.88	\$122.80	\$126.85
27	Field Observer	\$96.53	\$99.71	\$103.00
28	Staff Environmental Scientist, Engineer, Architect	\$129.22	\$133.49	\$137.89
29	Hydrogeologist	\$129.22	\$133.49	\$137.89
30	Senior Technician	\$129.22	\$133.49	\$137.89
31	Junior Technician	\$71.65	\$74.01	\$76.45
32	Senior GIS Specialist	\$153.41	\$158.47	\$163.70
33	Junior Gis Specialist	\$84.13	\$86.91	\$89.77
34	Administrative Support/Data	\$93.82	\$96.92	\$100.12



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July 9, 2013

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CDM Smith is pleased to submit the enclosed best and final offer (BAFO) for Environmental Assessment Field Contracting services to conduct Environmental and Historic Reviews under the State’s Community Development Block Grant Disaster Recovery (CDBG-DR) Grant Program. As per your letter dated July 5, 2013, we have removed all assumptions that you have requested and have provided a reduced price for the items that were identified. We are committed to assisting New Jersey recover and rebuild following Superstorm Sandy.

### Quote Letter Acknowledgements

As required in the Request for Quote (RFQ), CDM Smith acknowledges the following:

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Mr. Judson Cross  
July 9, 2013

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Maria D. Watt, P.E.  
Program Director  
CDM Smith Inc.

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Vice President  
CDM Smith Inc.

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# REQUEST FOR QUALIFICATIONS



## Environmental Assessment Field Contractors

*Prepared for the*

*State of New Jersey  
Department of the  
Treasury*

*Division of Purchase  
and Property*

RFQ7879235

June 27, 2013

**Firm:** CDM Smith Inc.  
110 Fieldcrest Avenue, #8  
6th Floor  
Edison, New Jersey 08837  
Tel. (732) 225-7000

**Contact Person:** Thomas R. Schoettle, PE, BCEE  
Vice President  
110 Fieldcrest Avenue, #8  
6th Floor  
Edison, New Jersey 08837  
Tel. (732) 225-7000  
Email: [schoettlet@cdmsmith.com](mailto:schoettlet@cdmsmith.com)

**CDM  
Smith**



110 Fieldcrest Ave, #8  
6<sup>th</sup> Floor  
Edison, NJ 08837  
Tel: 732-225-7000  
Fax: 732-225-7851

June 26, 2013

Mr. Judson Cross  
State of New Jersey  
Department of Treasury  
Division of Purchase and Property Procurement  
33 West State Street, 9<sup>th</sup> Floor  
Trenton, New Jersey 08625

Subject: RFQ787923S—Proposal for Environmental Assessment Field Contractors for Environmental and Historic Reviews, New Jersey's CDBG-DR Grant Program

Dear Mr. Cross:

CDM Smith is pleased to submit the enclosed proposal for Environmental Assessment Field Contracting services to conduct Environmental and Historic Reviews under the State's Community Development Block Grant Disaster Recovery (CDBG-DR) Grant Program. We are committed to helping New Jersey recover and rebuild following Superstorm Sandy, and to assist the State during the next phase of recovery with the CDBG- DR program.

CDM Smith has already been supporting the State's disaster recovery program on two fronts. First, CDM Smith's team of disaster recovery and CDBG-DR experts developed the State's overall program strategies for housing and community recovery through a contract with the Department of Community Affairs (DCA). Within three days CDM Smith mobilized a team of 30 CDBG experts to the New Jersey state capitol to begin working on the first deliverable. Major components of the scope-of-services included conducting a data driven needs assessment, the creation of a fast tracked Action Plan for acceptance and implementation of recommended programs, and the development of Requests for Proposals (RFP) to procure contractors to implement these programs.

Also under the same contract with DCA, CDM Smith assisted the NJDEP in performing environmental reviews of HUD-funded programs. We helped NJDEP prepare Tier 1 environmental assessments (EA) for the rehabilitation, reconstruction, elevation and mitigation (RREM) program for single-family homes and the portion of the small rental properties program for buildings with up to four residential units. CDM Smith helped modify the Tier 1 EA to meet the requirements of FEMA. We also drafted the checklist to be used in Tier 2 site-specific reviews. Personnel in HUD's regional and national offices reviewed and commented on NJDEP's draft Tier 1 and Tier 2 EA documents, and CDM Smith was there to help NJDEP understand, evaluate, and respond to the comments as appropriate. From this experience we believe we can provide exceptional value to NJDEP through our relationships with HUD regional and national environmental personnel who will weigh in on key issues related to environmental reviews performed for Superstorm Sandy recovery actions. Our proposed project team will be lead by two key individuals, Ms. Maria Watt and Mr. Mack Rugg, both of who have long proven track records working with NJDEP and have provided valuable input on the projects noted above.

Most recently, CDM Smith has completed environmental and historical reviews on six contracts with size and scope similar to the work that would be performed under this contract. Four of the six contracts involve HUD-







Mr. Judson Cross  
January 26, 2013

Page 2

funded disaster recovery projects, one involves HUD-funded projects not related to a disaster, and one involves FEMA-funded hazard mitigation projects. Environmental reviews completed under these contracts are described in detail in Tabs 7 and 8 of our proposal.

**Quote Letter Acknowledgements**

As required in the Request for Quote (RFQ), CDM Smith acknowledges the following:

- CDM Smith has reviewed the RFQ and understands the scope of work required by the State to complete environmental and historic preservation reviews.
- CDM Smith is a licensed engineering firm and is registered to do business in the State of New Jersey. If additional licenses or certifications are required to perform this project, we will obtain them.
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- Thomas R. Schoettle, P.E., Vice President is the named individual authorized to negotiate and enter into an agreement between CDM Smith and the State on this project.

CDM's proposal includes our best representation of our firm's experience, as well as a proven approach with professional team members and SBE subcontractors that can get the job done. We look forward to the opportunity to work on this contract with the State. Please call me directly with any questions regarding the proposal at (732) 225-7000.

Very truly yours,

Maria D. Watt, P.E.  
Principal-in-Charge  
CDM Smith Inc.

Thomas R. Schoettle, P.E.  
Vice President  
CDM Smith Inc.

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## Separate Bound Document

Appendix A Examples of two Environmental Records Reviews per HUD 24 CFR Part 58 of a CENST, CEST and Environmental Assessment, and two examples of a Cultural Resources Records Review 36 CFR 800 (Section 4.1.10.j of the RFQ).

1. Tiered Environmental Assessment—Environmental Review Record, City of Minot Homeowner Rehabilitation, Homeowner Reconstruction, and Acquisition of Vacant or Abandoned Lots for Affordable Housing
2. Stand Alone Environmental Assessment—Illinois “IKE” Disaster Recovery Program: City of LaSalle Wastewater Treatment Plant Flood Protection

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3. CENST—Environmental Review Record, City of Minot CDBG-DR: Control Lift Station
4. CEST—Environmental Review Record, City of Oak Forest: Midlothian Creek Culvert Replacement at Waverly Avenue
5. Historic Architectural Report—River Arts District Transportation Project, Asheville, NC
6. Cultural Historic Survey for Proposed KY 911 Widening, Christian County, KY

### Appendix B Examples of two FEMA Records of Environmental Consideration (Section 4.1.10.k of the RFQ)

1. Record of Consideration - Truckee Unified School District
2. Record of Consideration - Los Angeles Unified School District

# Tab 1 Management Overview

CDM Smith has assembled an exceptional management and technical team familiar with the challenges facing the State and the programmatic requirements to execute the tasks described in the State's Request for Quotation (RFQ) efficiently and effectively. Maria Watt, our proposed Program Director, and Mack Rugg, our Technical Director, will utilize their years of experience working with both the State of New Jersey and other state and federal agencies on environmental projects and disaster recovery efforts. Leading our team, they will be directly accountable to the State and deliver quality services to expedite reconstruction of New Jersey Counties and Municipalities.

Maria and Mack have access to the extensive resources available within CDM Smith and have structured the team with individuals suited to undertake each specific project assignment. Our approach is therefore based on assembling a team with an appropriate balance of disaster recovery experts and environmental professionals that together provide the experience and know how to handle the multi-faceted program requirements in a timely manner. Our approach then builds on the extensive experience of the team members to utilize tried and true project control and quality control systems that will meet contract objectives and requirements. As we will demonstrate in the remainder of this section, the CDM Smith team has the necessary process in place to lend and assist the State address all of its needs that will lead to successful contract completion.

## 1.1 Building on Experience

The State will benefit from our team's familiarity with disaster recovery and our expert knowledge of HUD Community Development Block Grant - Disaster Relief (CDBG-DR) and FEMA Public Assistance (PA) grant funding. The CDM Smith team has ample staff capacity in our Edison, New Jersey and other nearby offices to execute this

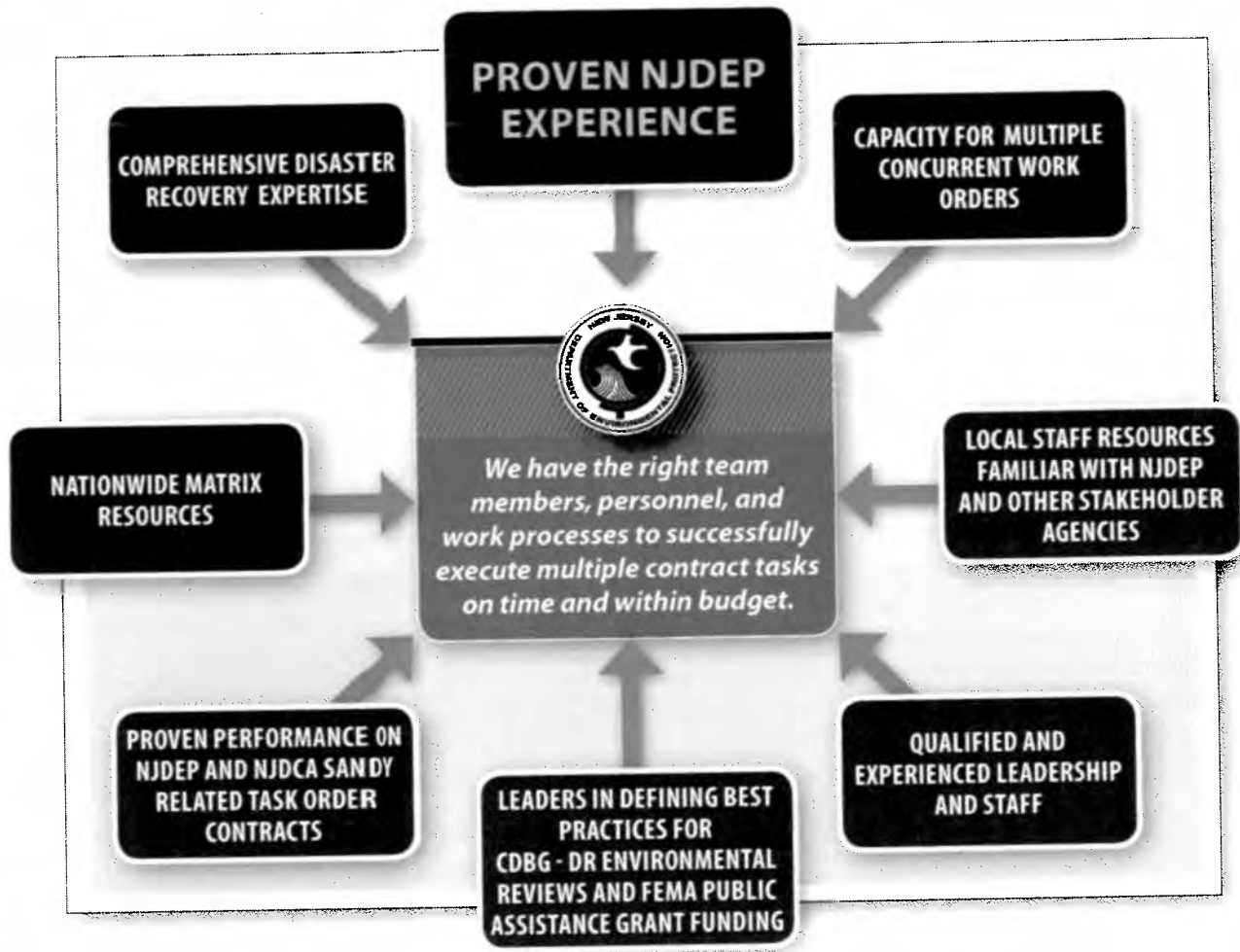
project as well as support from our seven SBE subconsultants.

Our experience supporting state and federal clients and local stakeholders in developing and implementing effective solutions to challenges in all phases of disaster recovery and funding will directly benefit us to effectively assist the the State. Our extensive experience, and the lessons we've learned on projects nationwide, will be leveraged to develop practical and effective solutions to the NJDEP program.

The CDM Smith team looks forward to the opportunity to serve the the State in its efforts to rebuild NJ Counties and Municipalities . The proposed CDM Smith project team is exceptionally-qualified to provide the best-value consulting services to assist the the State in developing Environmental Assessments to expedite the State's disaster recovery efforts.

## 1.2 Applying Innovation and Technical Excellence

The CDM Smith team has utilized our matrix organization to assign the best technical resources to meet specific project needs. Because the CDM Smith team is a matrix organization, our technical staff routinely works across office, regional, and national boundaries to complete projects. Long-established resource management systems, procedures, and tools facilitate worldwide assignment of appropriate staff. When personnel from multiple offices collaborate on a project, the task manager, with support from the local program manager, will promote



*CDM Smith is experienced in all phases of disaster recovery and funding assistance.*

communication and coordination with the State through regular progress conference calls, meetings, and e-mail correspondence. The CDM Smith team's information technology supports constant communication and sharing of data and work products across all work locations. This allows local team members with site specific knowledge to collaborate in real time with technical experts to efficiently develop real solutions to key challenges.

### 1.3 Project Quality Management

CDM Smith knows that successful program administration/project coordination is not something that just happens; it must be planned and then implemented with the appropriate levels of management, oversight, and control. CDM Smith's proven management tools create the framework for program-wide schedules, cost and quality control and

facilitate highly efficient team communications, harnessing the knowledge and talent of all program participants.

Because CDM Smith uses this management approach on all of our programs, we are well-versed in the requirements for program specific tools, which provide inclusive planning for high quality work products. One of the initial processes that will be utilized by the program team will be the Project Quality Management (PQM) meeting with NJDEP. The PQM process reflects two basic tenets of effective project delivery: the importance of planning; and the value of a unified and motivated project delivery team. The objective of the Project Quality Management (PQM) session is to insure that, at the beginning of the project, all key stakeholders are in agreement on the project mission (vision); factors critical to the project's completion (goals); and processes, activities and tasks (actions) that must be

accomplished to achieve success. The PQM allows the project team to clearly develop and describe the scope and expectations from different members of the project team. With a clear path forward, the project team is ready to execute each of the project tasks.

## 1.4 Project Controls

Efficient and effective delivery of the CDBG-Disaster Recovery funding program relative to Superstorm Sandy requires the management of multiple initiatives and activities concurrently and a proactive administrative and monitoring system to provide financial controls required by the underlying HUD program rules. The CDM Smith team will draw upon our experience with effective CDBG-DR programs in Iowa, Illinois, Texas, Louisiana, and Mississippi to form an effective organization providing technical oversight and implementation for policies, processes and systems needed for the successful delivery of the critical environmental assessment records required of the New Jersey Office of Environmental Protection.

Environmental review records require an ongoing effort which will be harmonized by the program oversight function. This function will be under the direction of Maria Watt, Program Director, and Technical Director, Mack Rugg, who will work with the New Jersey Departments of Environmental Protection in order to define an organizational structure which clearly and effectively delineates lines of responsibility and communication. The structure will be transparent throughout the execution phases and encourage visibility into the operations and delivery of the Environmental Review Records processes. The CDM Smith team will customize our existing CDBG-DR project controls and reporting tools specifically for the known and anticipated variables associated with the Superstorm Sandy program rules. Data will be collected and distributed quickly, allowing for timely and informed decisions making. The CDM Smith project controls will provide an appropriate level of detail reflecting:

- Efficient and effective planning of work activities
- Measurement and analysis
- Early warning systems to detect and report problems
- Monitoring and compliance
- Progress reporting

CDM Smith will employ internal performance indicators which we have designed to capture and report trends and progress. Various other performance indicators will be developed that roll up from the production of the

Environmental Review Records level and into the Program Management level. A series of analytic tools will constantly monitor key performance indicators and reports to highlight efficiencies or areas of concern.

## 1.5 Technical Approach

While completing environmental reviews at all levels of complexity for projects funded by HUD and FEMA, CDM Smith has developed efficient internal environmental review procedures. Many of the individuals who have developed these processes are included on our project team.

### 1.5.1 General Procedure

Our processes for executing environmental reviews for this project will involve the general procedure outlined below which is designed to: (1) minimize delays caused by lack of needed information; and (2) avoid delays by maximizing overlap between the period of consultation with regulatory agencies and the period during which the balance it on individual of the environmental review is completed.

- CDM Smith receives task order and application package from State Contract Manager (SCM) or Program Manager (PgM).
- CDM Smith information manager enters task order and application documents into CDM Smith's internal document management system.
- CDM Smith technical director assigns the task order to a task order manager.
- Technical director and task order manager review the application documents for completeness and to confirm the level of environmental review assigned by the SCM or PgM. If application is not complete, technical director reports deficiencies to SCM or PM. If CDM Smith does not agree with the level of environmental review determined by the SCM or PM, CDM Smith reports this to the SCM or PM with an explanation for the disagreement.
- Task order manager completes Determination of Level of Review Form and technical director reviews and signs the form.
  - Task order manager and staff, including subcontractors, perform the following functions:
  - Determine if the proposed activities would affect wetlands or the 100-year floodplain and initiate early public notice if required
  - Prepare maps for use in agency and tribal consultation and site inspection

- Identify agencies and tribes requiring consultation and initiate consultation
- Inspect the site and immediate vicinity to collect needed information not accessible in a desktop review, and notify the State Contract Manager in writing regarding the findings of the site inspection
- Determine whether the proposed project requires additional studies not covered by the firm fixed unit price, such as a phase 1 environmental site assessment, a cultural resources assessment, an engineering study, a biological assessment, or wetland delineation.
- Complete the appropriate level of historic preservation analysis and documentation in accordance with Section 106 of the National Historic Preservation Act, 36 CFR Part 800, the New Jersey Register of Historic Places Act, and the programmatic agreement attached to the RFQ
- Prepare environmental review documents appropriate for the level of review required, with supporting documentation, in compliance with HUD regulations in 24 CFR Part 58, FEMA regulations in 44 CFR Part 10, and the NEPA regulations of the Council on Environmental Quality in 40 CFR Parts 1500 through 1508
- Prepare any required public notices and documents related to environmental clearance and release of funds
- Task manager signs all forms requiring the signature of the preparer
- Task order staff prepare a PDF of the entire environmental review record and enter it into the Environmental Review Management System to be created by DEP or the Program Manager.

### 1.5.2 Comments on Selected Components of the General Procedure

#### Field Checklist

CDM Smith has found that HUD's Sample Field Notes Checklist is not optimal for use in the field because it calls for a large amount of information that can better be determined in a desktop review. CDM Smith will develop a field assessment checklist that focuses on information that can only be collected in the field.

#### Additional Studies

If a proposed project requires an additional study, CDM Smith will submit a written notification to the State Contract Manager or Program Manager that contains a summary of the findings of the site inspection, a description of the additional study needed, an explanation of how CDM Smith decided additional study is needed, the types of personnel to be used, and a budget based on the hourly rates in this bid and the number of hours required to complete the study.

#### Historic Preservation

CDM Smith anticipates four general levels of review for compliance with Section 106 of the National Historic Preservation Act and the New Jersey Register of Historic Places Act:

- Online research including review of maps showing zones already determined to contain no historic structures, New Jersey GeoWeb, New Jersey State Museum records, online historic aerial imagery, and online street level imagery
- Review described above plus site visit, current photo of property, and background research including visit to Historic Preservation Office and local repositories
- Reviews described above plus development of work scope, delineation of area of potential effects, identification of interested parties, assessment of effects, recommendations for treatment and mitigation, coordination of a memorandum of understanding, determination of the applicability of New Jersey Register of Historic Places Act, completion of application for project authorization under New Jersey Register of Historic Places Act, and presentation to the Historic Sites Council
- Phase I, II and III archaeological studies and intensive architectural surveys not included in the firm fixed unit prices.

#### Compliance With FEMA Requirements

NJDEP has prepared nine county-specific Tier 1 environmental assessments for the Rehabilitation, Reconstruction, Elevation and Mitigation (RREM) Program a portion of the Small Rental Properties Program. DEP has also prepared a Tier 2 site-specific checklist for the same programs. The Tier 1 EAs and Tier 2 checklist comply with HUD requirements and incorporate additional requirements of FEMA. FEMA reviewed and approved the documents. CDM Smith plans to use the existing Tier 1 and Tier 2 documents as models. CDM Smith plans to

incorporate compliance with FEMA requirements into the same environmental review documents that demonstrate compliance with HUD requirements. CDM Smith does not plan to prepare separate FEMA-specific environmental review documents.

## 1.6 Project Level Proposed by CDM Smith

The CDM Smith proposal and costs are based on performing level 2 environmental and historical preservation reviews, which include between 1,000 to 3,000 reviews of varying types within the first 90-180 days.

## 1.7 Time Frame Required to Perform Required Scope of Work

Individual CENST reviews do not require field inspection or significant desktop review and can generally be completed within two days of receiving a task order. For CEST and EA reviews, CDM Smith anticipates that initial desktop review and field inspection for individual sites can be completed within a week after receipt of a task order. For groups of sites larger than 40, this is likely to require an additional week for each additional 100 sites. CDM Smith anticipates that completion of CEST reviews, nontiered EAs, and tier 1 of a tiered EA will generally require 8 weeks because of the time required for project review by regulatory agencies and completion of the 8-step floodplain decision making process, including public notices and public comment periods. This is likely to increase to 3 months if the NJHPO requests additional documentation of a property before work begins. The actual time required is largely determined by the length of the initial and subsequent periods of NJHPO review.

Phase I environmental site assessments are likely to require 6 weeks because up to a month is required to obtain a response to an information request submitted under the Freedom of Information Act. Phase II ESAs typically require two and a half months because obtaining laboratory reports typically requires 6 weeks. A biological survey or wetland delineation of an individual property can generally be completed and the results reported within 2 weeks if the specialized personnel required for this work are not overwhelmed with other work. An archaeological survey can generally be completed and the results reported within a month if the weather is reasonably good. The time required for engineering studies depends on the type of study.

CDM Smith estimates we could complete the numbers of reviews listed in any one of the bullet items below.

- 182 CENST reviews per week or 792 per month
- 73 tier 2 site-specific reviews per week or 317 per month after completing the tier 1 review
- 12 CEST reviews per week or 53 per month
- 5 environmental assessments per week or 23 per month
- 46 CENST reviews per week or 198 per month, plus 18 tier 2 site-specific reviews or 79 per month, plus 3 CEST reviews per week or 13 per month, plus 1.3 environmental assessments per week or 5.7 per month

All reviews would incorporate the requirements of Section 106 and FEMA.



# Tab 2 Start-up Team

Table 2-1 provides the names of all management, supervisory, key personnel and other project personnel assigned to the contract, their project role (s), the corresponding labor titles specified in the cost quote price schedule 2 for EAF Contractors, the percentage of FTE work each staff member would be committed to, and the location where the CDM Smith Team members will be primarily performing project assignment work.

Table 2-1. Management, supervisory, key personnel and other proposed project personnel

Name/Title	Project Role - Organization Chart	NJCDBG Labor Category	Project Workload	Location
Kyrie Teel	Administrative Support/Data	Administrative Support/Data	15 to 25%	New Jersey
Robert W. Ball, RPA	Historic Preservation/Cultural Resource	Principal/Senior Historic Preservation	25 to 50%	Kentucky
Jessica R. Beattie, P.G., ENV SP	Environmental Investigations	Senior Hydrogeologist	25 to 50%	New Jersey
Henry R. Boucher, P.E., BCEE, AICP	Principal Advisor - NEPA Compliance/ Technical Review	Principal	25 to 50%	Pennsylvania
David K. Brauner, CFM	Principal Advisor - FEMA Compliance	Principal	25 to 50%	Louisiana
George J. Carbo, AICP	Task Order Manager	Task Manager	50 to 75%	Mississippi
Dwight R. Dunk, LP.D., P.W.S.	Wetlands/Endangered Species	Principal	25 to 50%	Massachusetts
Patrick W. Dunn, CFM	Task Order Manager	Task Manager	50 to 75%	Illinois
Marcie A. Encinas	Environmental Review Records	Staff Env. Scientist	25 to 50%	New Jersey
Jonathon Enser, PMP	Information Management - System Design/Manager	Task Manager	25 to 50%	Colorado
Patricia K. Forgang, CHMM	Environmental Investigations	Senior Env. Scientist	25 to 50%	New Jersey
Steven Green	Information Management - Senior Advisor	Principal	25 to 50%	Louisiana
Melissa A. Harderode, ENV SP	Environmental Investigations	Staff Env. Scientist	25 to 50%	New Jersey
Alexandra H. Kleyman	Environmental Review Records	Staff Env. Scientist	25 to 50%	Massachusetts
Jessica A. Kretch	Field Assessment	Field Professional	80 to 100%	New Jersey
Rebecca S. Jablon, AICP, LEED AP®	Task Order Manager	Task Manager	50 to 75%	Virginia
Henry "Hank" Manning	Principal Advisor - CDBG Non-Housing	Principal	25 to 50%	Illinois
George Molnar	Wetlands/Endangered Species	Senior Biologist	25 to 50%	New Jersey
Niriam Parker	Administrative Support/Data	Administrative Support/Data	15 to 25%	New Jersey
Eric C. Pescatore, CFM, GISP	GIS	Senior GIS Specialist	25 to 50%	Massachusetts
Melissa A. Peters	Environmental Review Records	Field Professional	25 to 50%	Pennsylvania
Matthew E. Petty	Wetlands/Endangered Species	Staff Env. Scientist	25 to 50%	Virginia
Andrew R. Poyant	Environmental Review Records	Field Professional	25 to 50%	Massachusetts
F. Mack Rugg	Technical Director	Program Director	50 to 75%	New Jersey
Thomas R. Schoettle, P.E., BCEE	Officer-in-Charge	Principal	5 to 15%	New Jersey

Tab 2 • Start-up Team

Name/Title	Project Role - Organization Chart	NJCDBG Labor Category	Project Workload	Location
Kelly A. Simmons	Task Order Manager	Task Manager	50 to 75%	New York
Michael Spletto	Principal Advisor - HUD CDBG Housing	Principal	25 to 50%	Louisiana
Nanette Vignola-Henry	Task Order Manager	Task Manager	50 to 75%	New York
Maria D. Watt, P.E.	Program Director	Program Director	15 to 25%	New Jersey
Nhan Dang	Field Assessment	Field Observer	80 to 100%	New Jersey
Jonathon Marino	Field Assessment	Field Observer	80 to 100%	New Jersey
Erik Lukjantschenko	Field Assessment	Field Observer	80 to 100%	New Jersey
Wen Liu, Ph.D., EIT	Field Assessment	Field Professional	80 to 100%	New Jersey
Richard Kurisko, NJLSRP	Field Assessment	Staff Env Scientist	80 to 100%	New Jersey
Randy S. Kertes, P.G., CPG	Field Assessment	Senior Hydrogeologist	80 to 100%	New Jersey
Jerome J. Harcar	Historic Preservation/Cultural Resource	Senior Hist Pres Specialist	25 to 50%	New Jersey
Matthew J. Brener, P.E.	Field Assessment	Engineer	80 to 100%	New Jersey
Michele L. Christina	Field Assessment	Senior Env Scientist	80 to 100%	New Jersey
Kevin McAllister, P.G.	Field Assessment	Senior Hydrogeologist	80 to 100%	New Jersey
Leah B. Yasenchak, PhD, AICP/ PP, CcEd, EDP	Field Assessment	Senior Env Scientist	80 to 100%	New Jersey
Beth Landers	Field Assessment	Field Professional	80 to 100%	New Jersey
Andrea Mules	Field Assessment	Field Professional	80 to 100%	New Jersey
Andrew Leung, P.E.	Field Assessment	Senior Engineer	80 to 100%	New Jersey
Charles McCusker, P.G., CHMM, LSRP	Environmental Investigations	Senior Env Scientist	80 to 100%	New Jersey
William P. Lammey, AIA	Historic Preservation/Cultural Resource	Principal	80 to 100%	New Jersey
Grant C. Peatman, AIA, CID	Historic Preservation/Cultural Resource	Senior Historic Preservation Spec	80 to 100%	New Jersey
Paul J. McEachen, RPA	Historic Preservation/Cultural Resource	Senior Historic Preservation Spec	80 to 100%	New Jersey
Damon Tvarynanas	Historic Preservation/Cultural Resource	Field Professional	80 to 100%	New Jersey
Patrick Harshbarger	Historic Preservation/Cultural Resource	Field Professional	80 to 100%	New Jersey
Richard W. Hunter, RPA	Historic Preservation/Cultural Resource	Senior Historic Preservation Spec	80 to 100%	New Jersey
James Lee, RPA	Historic Preservation/Cultural Resource	Field Professional	80 to 100%	New Jersey
Lynn Brass-Smith	Wetlands/Endangered Species	Field Professional	80 to 100%	New Jersey
Douglas J. Chabrak, PWS	Wetlands/Endangered Species	Field Professional	80 to 100%	New Jersey
J. Maxwell Devane	Wetlands/Endangered Species	Senior Biologist	80 to 100%	New Jersey
Amy S. Greene, PWS	Wetlands/Endangered Species	Senior Env Scientist	80 to 100%	New Jersey
Jennifer LaStella	Wetlands/Endangered Species	Field Professional	80 to 100%	New Jersey
John R. Pabish	GIS	Junior GIS Specialist	80 to 100%	New Jersey
Susan C. Quackenbush, PWS	Wetlands/Endangered Species	Field Manager	80 to 100%	New Jersey
William M. Romaine, PWS	Wetlands/Endangered Species	Senior Environ Scientist	80 to 100%	New Jersey
Sean J. Ronan	GIS	Senior GIS Specialist	80 to 100%	New Jersey
Harry Strano	Wetlands/Endangered Species	Field Professional	80 to 100%	New Jersey

# Tab 3

## Contract Management

### 3.1 Operational Management Plan

CDM Smith can offer NJDEP the resources of more than 5,200 staff. Together with our subconsultants our project team can draw from over 500 individuals located in the greater New Jersey area. We have the necessary resources to undertake this time-critical disaster recovery contract, and have demonstrated this on similar multitask disaster recovery term contracts in Illinois, Texas, Louisiana, and Mississippi. We have also demonstrated our local capabilities by executing numerous successful project on our current NJDCA and NJDEP Term Contract.

Because CDM Smith is a matrix organization, our technical staff routinely work across office, regional, and national boundaries to complete environmental assessments. Long-established resource management systems, procedures, and tools facilitate worldwide assignment of appropriate staff. When personnel from multiple offices collaborate on a projects, the Task Manager, with support from the Program and Technical Directors, will promote communication and coordination through regular progress conference calls, meetings, and e-mail correspondence. CDM Smith's information technology supports constant communication and instant sharing of data and work products across any distance.

Our proposed Program Director, Maria Watt and Technical Director, Mack Rugg will ensure coordination across offices is occurring and that work is being completed consistently across the contract. Both Maria and Mack are already supporting projects with NJDEP and have been responsible for helping to lay the groundwork for the State's Superstorm Sandy environmental review process.

Program oversight will be provided by Maria Watt, Program Director, and Mack Rugg, Technical Director who will work with NJDEP to refine an organizational structure that clearly delineates lines of responsibility and communication. The structure will elicit transparency throughout the execution of

environmental review operations and allow visibility into the functional operations of the program delivery.

The CDM Smith team will customize our existing CDBG-DR program project control and reporting tools for NJDEP program delivery. Our program controls will provide an appropriate level of detail for:

- Efficient planning of work
- Budget and cash flow projections
- Measurement and analysis
- Variance tracking
- Early warning of potential problems
- Monitoring and compliance
- Program reporting
- Progress reporting
- Contract oversight
- Contract cost control
- Invoicing

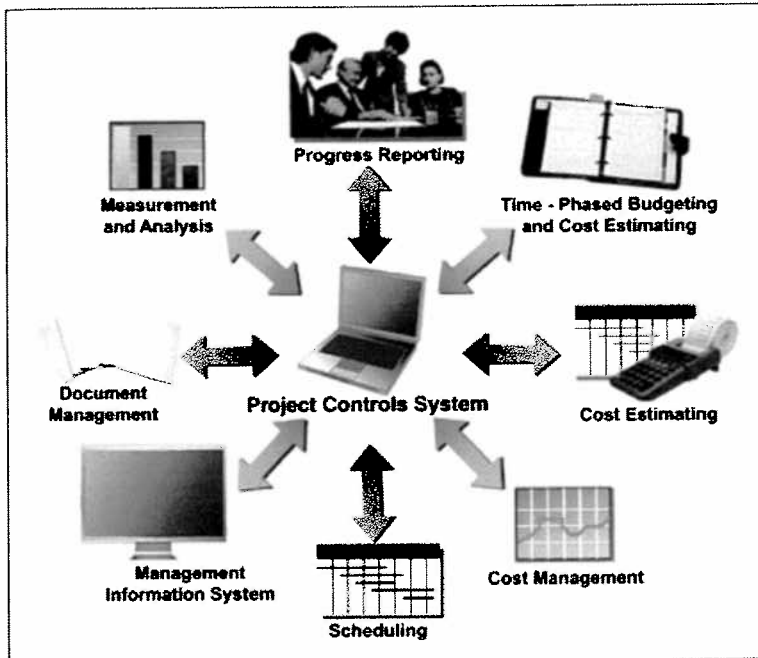
Oversight of the contract for environmental services requires detailed attention to the scope of services, budget, and schedule. Progress reports will be generated to offer insight into progress toward contract completion.

### 3.2 Scope Management

Effective control of the environmental services requires considerable attention to scope management. CDM Smith will attend the project launch meeting with NJDEP and its overall Program Manager to confirm and coordinate our contracted scope of services. We recommend a quarterly review of the scope of services to ensure that the contracted services remain accurate, necessary, and reflective of program goals and objectives. Scope definition will be managed with the same vigor as schedule and budget to effectively meet and exceed expectations for environmental review services.

### 3.3 Budget and Schedule Control for Numerous Concurrent Tasks

As a long-time provider of environmental services to state and Federal government agencies, the CDM Smith team has in-place government-approved scheduling, management information systems and reporting tools to enable us to manage work under a term contract.



*Our project controls system enables us to provide quality work products, while adhering to schedule, budget, and QA protocols.*

PRISM, our financial planning and control system, will be used as the basis for cost and schedule control. PRISM generates information on project financial status throughout the life of the project, including incurred costs, invoice data, and earned value information. These are based upon a work breakdown structure consistent with the Project Management Institute (PMI). Project Managers will use this data for status information relative to master schedules and earned value. The Task Order Managers will utilize PRISM to control all elements of project costs. This system will be used to generate Current Period Charge Reports (CPCRs) that track charges on a weekly basis and compare budget versus actual information on each task and subtask, as well as the status on subcontractor invoices. This reporting system allows the Task Order Manager to track progress on Task Order assignments, identify potential problems early, and implement corrective measures.

Another powerful project management tool generated in PRISM is our Project Status Report (PSR). Generated on a monthly basis, these reports contain budget and incurred costs. During monthly PSR review with the contract manager, all project managers are requested to identify and quantify any variances from the contract's budget, schedule, and scope and to project estimates-to-complete. The PSR is also used as a communication mechanism to the contract manager and corporate accounting group.

PRISM is also fully integrated with the Basic Management Tool (BMT), which allows for the development of Excel worksheets for setting up and managing a project, including detailed staffing requirements. The BMT allows entry of the contract terms, resources, and schedules. The system also generates S-curves that plot cumulative budget and actual cost by week; presents a picture of how actual costs compare with the budget; identifies each milestone and plots both on the budget and actual curve. BMT prints out Gantt charts, detailing task order subtasks plotted over the weeks from project start to finish. For each assignment, the task order manager will utilize PRISM to track and control the budget for each task compared to the percent completion. The CDM Smith team will track performance to budget on a weekly basis and implement budget trend reporting

to allow for CDM Smith's program director, technical director, and task leaders to readily identify potential budget issues and make course corrections before potential issues are realized.

PRISM also provides for flexibility in invoicing, allowing formats to be developed that best meet the needs of the client. With this system, charges to the project are available for invoicing at any time. CDM Smith accounting staff has experience with the invoice formatting requirements for NJDEP.

Our project controls specialists will use the Critical Path Method (CPM) of planning and scheduling by breaking a project into small manageable units (Work Breakdown Structure, or WBS). During the WBS planning phase of the project, each element of the WBS is established (activity, milestone, and event). The WBS identifies the duration of each activity and the sequence of activities that will take place to accomplish each of the project tasks. MS Project® and Primavera® software capabilities

are used to determine activities on the critical path and for assisting the project manager in keeping the overall project on schedule. CDM Smith has experience with a variety of different scheduling software and, based on the complexity of a Task Order, we can provide scheduling using the NJDEP-preferred software.

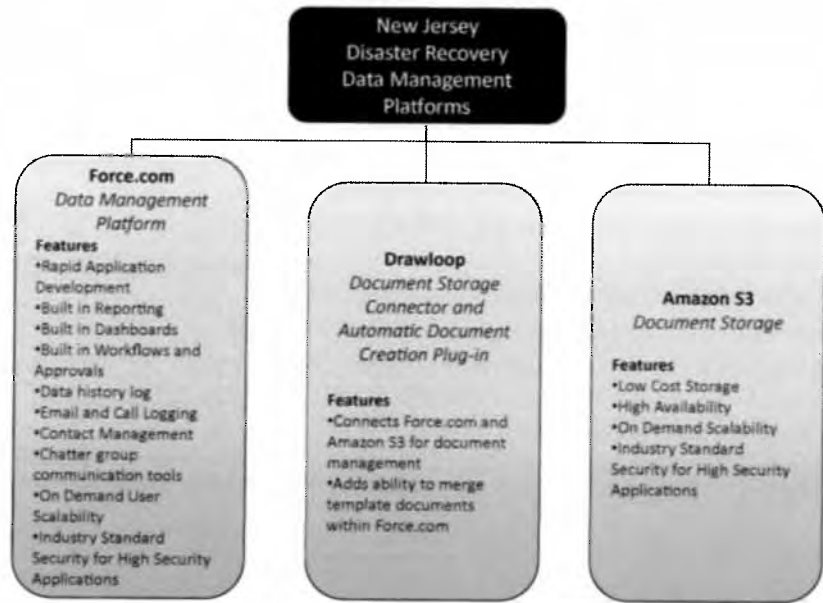
### 3.4 Information Technology

An Information Management system will be used for document management and will maintain all data in a secure environment. CDM Smith's document management system consists of coordinated manual and automated operations to provide for the receipt, controlled distribution, tracking, reporting, and storage of the key documents pertinent to the Environmental Review Records. CDM Smith will integrate our document management system with those of the Program Manager so that the entire team will be compliant with the State of New Jersey and Federal grant reporting and regulatory requirements relative to the HUD Disaster Recovery Reporting System.

As part of our task order management process, CDM Smith will utilize a cloud-based information management system for documenting and controlling the environmental review process, quality control, tracking of deliverables and reporting. We will be using a Force.com application for these purposes. This application allows for:

- Streamline review and workflows.
- Ability to track progress via dashboards and reports.
- Email notifications to keep program staff, subcontractors, and NJDEP up to date.
- Structured workflows for greater accountability.
- Tracked milestones to identify stage location of each review and duration of each step for each review.
- Cloud model can permit remote access by staff and NJDEP.

As task orders are received for environmental reviews, every review will be entered into the system and assigned to a staff member. The system will contain and track all relevant information about each review. This includes due dates, milestones, correspondence documentation, record management, quality control, deliverables, and approvals.



Features of Disaster Recovery Data Management Applications

CDM Smith will work with NJDEP to ensure data security meets the State's security requirements.

Since this system tracks and monitors all reviews, reporting on the status of any group of reviews, any specific task order or any individual review will be easily accessible through real time reports to the CDM Smith staff, the Program Manager, or the State Contract Manager. All documents created or received as part of this process will be retained and available in a records management system.

### 3.5 Communication and Business Collaboration Tools

A thoughtful communication plan is critical to the success of the program. The amount of information generated by every aspect of a CDBG-DR program is considerable so information must be carefully managed and reported in a useful manner if it is to be valuable to program stakeholders and project team members. Keeping lines of communication open to program stakeholders, as well as within the program team, cannot be left to chance or good intentions. Reports and program information will be made available to NJDEP for distribution to Congressional and other stakeholders as directed by NJDEP. Ad hoc reporting will be made available for local council members, State Representatives, State Senators and Congressmen that request information on projects in their districts.

The CDM Smith team will work with NJDEP and its selected communications staff to prepare a program



Communications Plan that will identify precisely who needs what information, in what format, and how often. The plan will recommend procedures and protocols for communication from the top down, bottom up, within, and across the program. It will emphasize both formal and informal communications and will use a variety of communication vehicles to share information. The communication function will be responsible for implementing the Communication Plan throughout program delivery. The Plan will be reviewed monthly to identify additional communication needs and/or improvements to delivery methods or vehicles.

CDM Smith is a leader in the application of business collaboration tools and continually looks for new and innovative software and hardware developments to undertake task order activities via the internet, intranet, teleconferencing, Live Meetings, and NetMeeting, and eRooms. The use of these innovative methods has enabled us to fast-track a number of task order that might otherwise have been slow to progress due to scheduling conflicts. Below are brief descriptions of some of the computer based collaboration tools we have and will deploy on the NJDEP Term Contract.

- **E-mail discipline distribution lists** – Access to 5000+ resources worldwide.
- **Office communicator** – instant messaging to connect resources more efficiently than e-mail. Allows multiple parties to brainstorm issues on-line.
- **Audio Conferencing** – A conference call for three or more people, by itself or with any of the other meeting tools listed for invited participants, within or outside of the firm.
- **NetMeeting** – A presentation or meeting to collaborate on a project, within our network; small groups within the firm.
- **LiveMeeting** – For presentations and collaboration among project team members and NJDEP.
- **Worldcom Net Conferencing Presentation Tool** – A presentation within or outside of our network, for invited participants, within or outside of the firm.
- **Worldcom Instant Net Conferencing Collaboration Tool** – A meeting to collaborate on a project by sharing an application or file within or outside our



*An eRoom streamlines project collaboration by creating a virtual space where staff can create, edit, manage and discuss all things related to a project.*

network, for invited participants, within or outside of the firm.

- **eRoom** – A collaborative web-based shared space for projects. We maintain two eRoom servers, one accessible over our network, the other available through the Internet. Team members, within or, using the external Web Server, outside of the firm can access the eRoom.
- **Project Wise®**- CDM Smith utilizes an “enterprise level” electronic data management system (EDMS) that allows environmental staff to work more closely and in a structured and managed environment, creating a central repository for all related project data. Applying specific rules and permissions to the project data ensures that a consistent “workflow” is used. Implementing these specific rules provides a secure integrated environment. The EDMS allows the use of a single, integrated “data centric” physical model, allowing the design team to communicate more openly thereby reducing inconsistencies much earlier in the design process.

### 3.6 Quality Control, Regulatory Compliance and Conducting Audits

CDM Smith’s quality management approach has been effectively used on work assignments or task order contracts similar to this term contract and is applied to all projects, regardless of size or type of deliverable. CDM Smith’s deliverables are thoroughly reviewed prior to release to clients. We will use our QA/QC procedures

which are standardized for all projects and include technical reviews, data reviews, and conformance with standards reviews. CDM Smith believes that each person is responsible for quality and technical reviews of the final product that results in the quality document expected by the client. CDM Smith's subcontractors will be contractually obligated to follow the QA/QC requirements. Each subcontractor-developed deliverable will be reviewed by a technical specialist

The Compliance function encompasses compliance with state and federal requirements and quality management (including quality assurance and quality control). The CDM Smith team can develop a process that will ensure that the correct level of environmental review is completed for each project and that all applicable federal and state environmental laws are considered as part of all environmental reviews.

Quality control measures are applied to ensure the adequacy of all technical products. CDM Smith's quality control procedure consists of the following features:

- Technical review process
- Individual technical review
- Technical review committee
- Audits

**Internal QA** – Quality has been the cornerstone of the CDM Smith's reputation for more than half a century. From the smallest study or environmental assessment, to the most complex project, quality management is fully integrated into every project task. Project quality management, or PQM, is the umbrella process by which we impose the most stringent quality controls on our projects. This process can be implemented in various degrees, depending on the nature and magnitude of a given project. PQM can be defined as all activities undertaken to ensure that the services provided by CDM Smith to meet client expectations and contract requirements. These activities are further subdivided into two categories—the first being specific QC procedures undertaken by staff engaged in a particular project and the second being timely overview by authorized staff to ensure that such control procedures are being followed to the extent appropriate. To guide these efforts, CDM Smith has developed PQM manuals to provide procedures and guidelines to be followed in the execution of all projects. The processes outlined in these documents apply to all project-related activities—from proposal preparation to the storage of project records. Areas include:

- **Project Startup Activities:** PMP preparation, WBS, budget and cost allocations, project planning and scope review, health and safety programs, project kick-off meeting .
- **Lead Practitioner:** Assignment of a lead practitioner is made by the Program Director at project startup to guide the technical aspects of a project and insure compliance with CDM Smith's internal quality management plans.
- **Project Audits:** Conducted on a quarterly basis by the Program Manager.
- **Project Closeout Activities:** Closeout forms, storage of project records.

Central to the success of this rigorous quality management program are three main elements:

- Client participation
- Standardization
- Independent technical reviews

CDM Smith's QA program is a documented management system designed so that QC procedures appropriate to each type and scope of work are in place and functioning.

**Technical Review** – The goal of a technical review is to have an independent evaluation of work products with technical content. The purpose of these technical reviews will focus attention on:

- Appropriate data quality objectives
- Accurate and appropriate data
- Pertinent regulatory requirements applied
- Accomplishment of what project objectives will be, or have been

Technical Review is part of the work concept or work product, not a separate activity or an add-on. A technical review committee is comprised of several principal advisors to review Task Order activities and documents. The outcome of these reviews is included in a memorandum that identifies all questions or issues related to a project deliverable. This memorandum must be addressed by the project team.

**Individual Technical Reviews** – An individual review is required for all technical documents, including environmental and site-specific assessments. The individual review consists of the following steps:

- The document author and project manager identify reviewer(s). CDM Smith maintains a database of

qualified individual reviewers for the various types of documents (environmental assessments, wetland protection, historic preservation, site-specific traffic, noise and toxic studies, etc.)

- The document is submitted to the individual reviewer(s) and they are provided time to review the document. The reviewer(s) transmit comments back to the document author for incorporation into the document.
- The author and Project Manager resolve any questions with the individual reviewer(s).

**Technical Review Committees** – Technical review committees are required for complex, site-specific studies as defined by the Program and Technical Directors.

- The review committee meets to discuss the documents under review. Minutes of the meeting are recorded, and include the comments and recommendations of the review committee.
- The Program and Technical Director are responsible for incorporating comments and resolving outstanding issues with the members of the review committee.



## Tab 4

# Potential Challenges

Inconsistent and irregular flow of work to the EAF contractors is a potential challenge. Initially, there may be a backlog of complete and approved applications requiring environmental review. The rate at which these applications are bundled into work orders for the EAF contractors may be slow at first, then speed up. After the contractors work through the initial backlog of applications ready for review, the rate at which the EAF contractors receive additional applications for review may decline. CDM Smith will address this challenge by engaging people before they are needed, assigning them to other projects when they are no longer needed for this project, and bringing them back if the need increases again. As a large firm with many projects, CDM Smith has the ability to be flexible in this respect.

Another potential challenge will result from applications with incomplete information, especially incomplete information about the footprint of the proposed structure. Compliance with many regulatory requirements can be influenced by changes in the building footprint. If the proposed footprint is not known, the environmental finding may have to include restrictions on changes in the footprint. It may turn out that these restrictions are not compatible with the plans of the property owner. This problem should be addressed primarily during screening of the applications for funding. As an EAF contractor, CDM Smith will identify potential problems related to building footprint during initial review of each application. If information about the proposed footprint is insufficient, CDM Smith will inform the State Contract Manager or Program Manager that the footprint must be better defined before the environmental review can be completed.

Regulatory agencies with responsibility for reviewing aspects of the proposed projects are likely to

be overwhelmed. CDM Smith will work with these agencies to identify types of proposed activities they need to review, types of activities they do not need to review, and forms of information, including maps and photos, that will facilitate their review.

Small business enterprises with relevant expertise are required to participate on this contract. Many of these firms are also likely to be overwhelmed. In anticipation of this, CDM Smith's proposal includes multiple SBEs for the same type of work. This will increase CDM Smith's opportunities to meet the 25% SBE goal, without over burdening any firm with an unmanageable volume of work.

Initially, some project personnel who have general familiarity with NEPA review will not be familiar with the unique aspects of HUD environmental review, FEMA environmental review, and environmental regulation in New Jersey. CDM Smith will provide training to all environmental review personnel. We will also prepare annotations of the environmental review forms that explain the requirements related to each part of each form, provide typical language to address common scenarios, and include links to relevant web sites.

The necessity of complying with Section 106 of the National Historic Preservation Act in accordance with the programmatic agreement has the potential to delay work on many structures 48 or more years old. In the case of structures to be rehabilitated, delays at the environmental review stage could be minimized if the proposed rehabilitation conforms to the tier II allowances in the programmatic agreement, and the applicant provides work descriptions adequate to demonstrate conformance to the tier II allowances.

# Tab 5 Organizational Support and Experience

*The CDM Smith Team offers the State of New Jersey outstanding credentials and relevant experience, bringing the best possible team to provide environmental and historic preservation compliance reviews to satisfy HUD CDBG-DR and FEMA for this project related to Superstorm Sandy Recovery.*

The CDM Smith Team has outstanding qualifications and a wealth of local and national experts to execute all tasks under this contract. Our previous and current Housing and Urban Development (HUD) Community Development Block Grant-Disaster Recovery (CDBG-DR), Federal Emergency Management Agency (FEMA) and other recovery projects range from small short-term solutions to some of the most complex, comprehensive CDBG-DR/FEMA programs delivered in the last 10 years. In short, the CDM Smith Team has the right experience and qualifications to provide the State of New Jersey (State) with a successful outcome.

CDM Smith will be supported on this project by seven key subconsultants, who will play important roles throughout project delivery. Our proposed SBE subconsultants are presented in Figure 5-1, and included in Tab 9 - Subconsultants. The project experience and resumes of key staff are also included in the required RFQ Tabs (Tab 6 - Resumes, Tab 7 - Experience, and Tab 8 - Additional Experience).

A summary of each firm's relevant experience is provided on the following pages. Figure 5-2 presents our project organization chart, including project management, key personnel, and staff of our SBE subcontractors assigned to project tasks.

## CDM Smith Delivers Full Service Consulting, Engineering, Operations and Construction Services

At CDM Smith, we are committed to building strong and lasting relationships with our clients and each other. We work together—in teams and

### Our team at a glance

**CDM Smith**  
CDM Smith can draw upon lessons learned, previously developed policies, procedures, protocols, and successful infrastructure, housing, and economic development programs to implement the State's CDBG-DR/FEMA program, and HUD public assistance grant funding.

**AMY S. GREENE ENVIRONMENTAL CONSULTANTS**  
Amy Green Environmental Consultants, Inc. will provide wetlands delineation and biological resources assessment (task 3.2.10) and possibly desktop assessments (task 3.2.3) and development of environmental review records (task 3.2.4).

**BRS Brownfield Remediation Solutions, Inc.**  
Brownfield Development Solutions, Inc. will be responsible for field assessments (task 3.2.8) and possibly desktop assessments (task 3.2.3) and development of environmental review records (task 3.2.4).

**HUNTER RESEARCH Historical Resources Consultants**  
Hunter Research, Inc. will ensure compliance with Section 106 (tasks 3.2.5, 3.2.8, and possibly 3.2.10)

**Lamney & Giorgio**  
Lamney & Giorgio, P.C. is responsible for compliance with Section 106 (tasks 3.2.5, 3.2.8, and possibly 3.2.10)

**RGA Richard Grubb & Associates, Inc.**  
Richard Grubb & Associates, Inc. will ensure compliance with Section 106 (tasks 3.2.5, 3.2.8, and possibly 3.2.10)

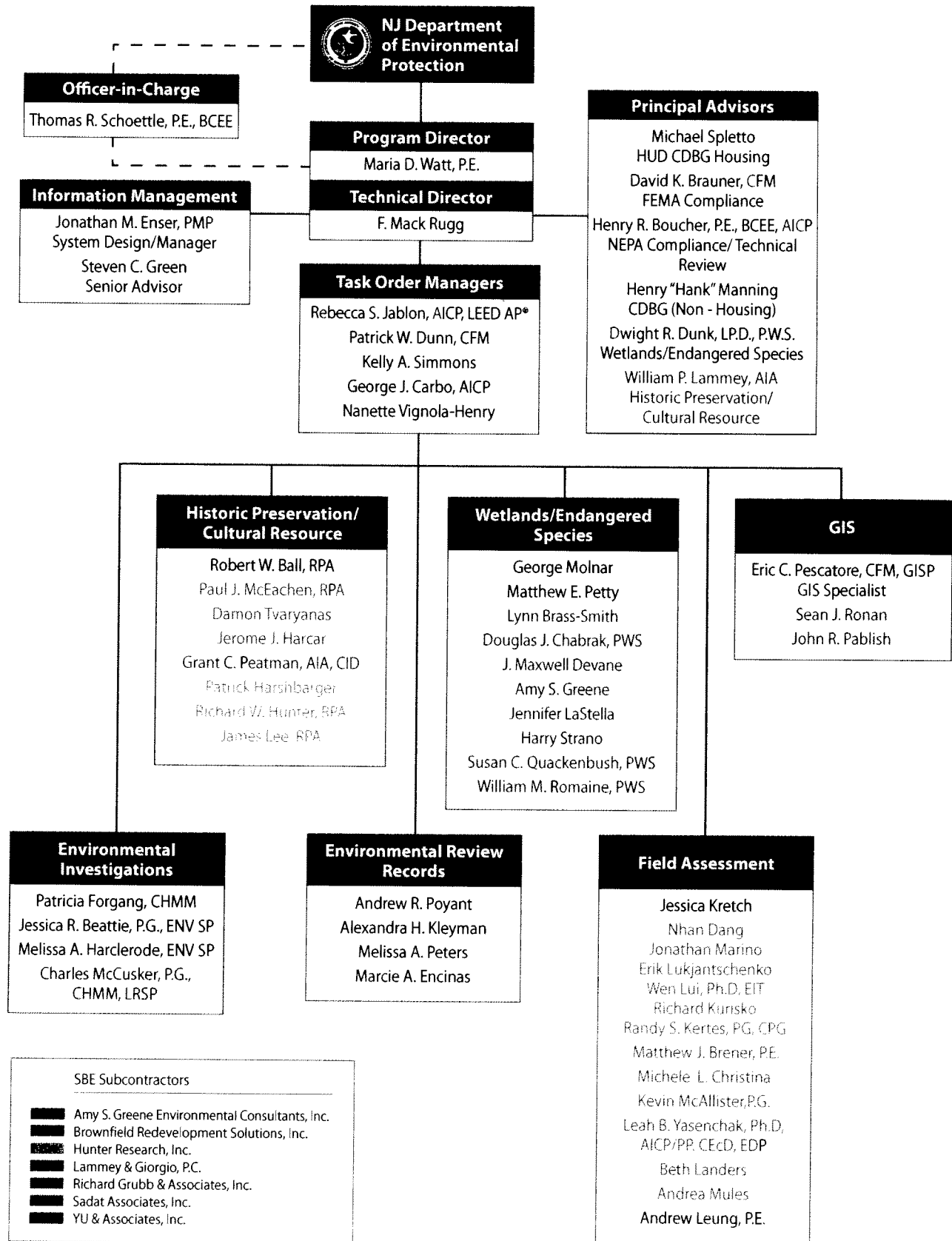
**Sadat Associates, Inc. Engineering and Environmental Science**  
Sadat Associates, Inc.'s responsibilities will include field assessments (task 3.2.8) and possibly desktop assessments (task 3.2.3) and development of environmental review records (task 3.2.4)

**YU & Associates**  
YU & Associates will do field assessments (task 3.2.8) and possibly desktop assessments (task 3.2.3) and development of environmental review records (task 3.2.4)

Figure 5-1. Proposed CDM Smith Team

in partnerships with our clients—to solve complex environmental and infrastructure challenges. Together, we provide smart, integrated solutions, and are committed to do what is right for our

Figure 5-2. Proposed CDM Smith Team organization chart





The founders of CDM Smith forged a vision of a firm that would break new technical ground, set new standards for client service, and engineer new solutions to meet the world's changing needs. That vision continues to be vigorously pursued.

clients, our communities, each other and the future. We remain fully committed to our corporate philosophy to **listen. think. deliver.**—and to provide exceptional client service, quality results and enduring value for each client, on every project.

quality management (TQM) processes, address issues of health and safety and community relations, and position ourselves as strong client advocates during regulatory strategy development and negotiations. The result is the best total solution for each and every client.

CDM Smith consistency ranks among the top engineering and design firms in the US.

CDM Smith is an employee-owned global consulting engineering, construction and operations firm. We currently employ more than 5,000 specialized personnel in 125 offices in the United States and abroad. Such robust resources allow CDM Smith to respond decisively and effectively to our clients.

Our accomplishments in national engineering projects underscores that we continue to maintain

the size, stability, and resources necessary to successfully develop and complete a diverse range of projects, drawing quickly upon the expertise of our entire staff. Importantly, virtually all work for this project will be conducted from CDM Smith's New Jersey (Edison) office, ensuring quick responses to concerns or needs the State may have throughout the project.

### CDM Smith's Strength in Numbers

Over the years CDM Smith has entered new fields to better serve our clients, initiated new ideas, and soon found ourselves among the industry leaders. Since our work on the Hurricane Katrina recovery, we have built a disaster recovery practice that serves crucial roles on programs similar to the State's Superstorm Sandy recovery program. For every project, we incorporate our total

### Location of Project Management

Services provided to the State by the CDM Smith Project Team will be overseen by Maria D. Watt, P.E. As the client services manager, Ms. Watt will work to ensure that all resources are directed as necessary to complete each assignment task in accordance with the State's scope and schedule requirements, proactively providing quick responses to any concerns or needs. Her office contact information is:

**CDM Smith**  
 110 Fieldcrest Avenue, #8  
 Edison, NJ 08837  
 Telephone: (732) 225-7000  
 Email:wattmd@cdmsmith.com  
 Contact: Maria D. Watt, P.E.

Our proposed technical director, F. Mack Rugg who is also located in the Edison, NJ office, will work closely with Ms. Watt, directing and executing the work, coordinating the project team and overseeing project quality on all tasks and deliverables. Both will be supported at the

corporate level by the Mid-Atlantic Regional Manager, Mr. Daniel M. Gerrity, P.E. and Area Manager Mr. Thomas R. Schoettle, P.E.

### CDM Smith's Service Capabilities

CDM Smith maintains a full-service office in Edison, NJ that hosts over 130 staff. Locally our project team is supported by 500 local technical and support staff. The convenience of the CDM Smith office and those of our NJ SBE subconsultants will enable project team members to respond quickly to the State's needs and concerns. With a large, multidisciplinary staff specializing in comprehensive engineering services, disaster management as well as the environmental sciences and planning, CDM Smith is equipped to manage and execute multiple projects simultaneously from planning through construction for a wide range services as shown on Table 1-1.

### CDM Smith—A Past Record of Delivering CDBG - DR and FEMA Public Assistance Grant Funding Programs Successfully

The CDM Smith Team will successfully support the State's Housing Recovery Program to meet the housing assistance needs in the State's CDBG-DR Action Plan in order to help citizens affected by Superstorm Sandy, and achieve sustainable housing solutions that allow citizens

to remain in the State, and where possible, return to their neighborhoods. In fact, CDM Smith was contracted by the State's Department of Community Affairs (DCA) to write the state's Action Plan for the recovery from Superstorm Sandy.

Because of our experience delivering similar, successful programs for local and state governments across the United States, we can draw upon lessons learned, previously developed policies, procedures, processes, systems, tools, and successful infrastructure, housing, and economic development programs to implement the State's CDBG-DR and FEMA public grant funding programs. The CDM Smith team understands the complex HUD and FEMA regulations, policies and guidance from previous programs, and this intelligence is important in developing programs that meet HUD and FEMA requirements, and the State's objectives and strategies for housing recovery and community rebuilding in order to accelerate the distribution of funding and start making improvements in affected counties and municipalities.

CDM Smith's experience with funding through HUD's CDBG was instrumental in a recently awarded contract with the NJDCA to assist in developing Action Plans that will be used to help distribute financial assistance to residents and businesses devastated by Sandy. CDM Smith is also providing disaster assistance and emergency repairs to the Passaic Valley Sewerage Authority (PVSC) under a Design/Build contract for the centrifuge dewatering facility that was lost when the facility was flooded during Sandy. CDM Smith assessed the condition of the partially flooded facility and was awarded the \$3.5-million contract to bring the facility back on line.

In Nassau County, NY, CDM Smith is providing program management of hurricane recovery efforts. The CDM Smith Program Team is also providing management and oversight of all DPW and contractor staff and subcontractors for compliance with applicable state and federal reimbursement requirements. Also for the County, CDM Smith managed the Sheltering and Temporary Essential Power (STEP) Program by developing policies, procedures, processes, systems, and tools required to quickly start-up and operate this disaster recovery program and assist Nassau County homeowners by restoring power, heat, and hot water to impacted residences.

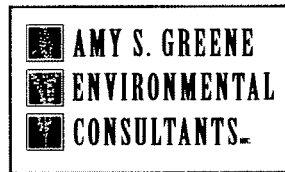
CDM Smith has proven experience in all phases of emergency and disaster management, and we are knowledgeable of the rules and regulatory requirements to successfully work within the HUD and FEMA guidelines to

**Table 1-1. CDM Smith's Applicable Engineering, Management and Environmental Services**

- Disaster management and recovery (CDBG and FEMA)
- Wastewater and stormwater collection, treatment, and disposition
- Drainage, flood control, and irrigation
- Surface/groundwater hydrology, supply development, and protection
- Water supply, transmission, treatment, and distribution
- Water resources planning
- Transportation planning, design and construction services
- Permitting
- Environmental and community planning
- Solid and hazardous waste management
- Environmental assessments, investigations, and studies
- Environmental remedial design and construction
- Engineering services during construction and resident engineering
- Management and financial consulting
- Geographic information systems
- Information management services
- Surveys, investigations, studies, and reports
- Engineering and architectural design
- Funding assistance

maximize funding to the affected local governments. This knowledge has been gained by staff being involved with innumerable presidential declared disasters. Worldwide, CDM Smith has assisted clients in times of emergency. Our experience includes a full slate of architectural, multi-discipline engineering and environmental services (A&E), including experience providing full A&E services for Gulf Coast clients in Louisiana and Mississippi after Hurricanes Katrina, Rita and Gustav, in Texas following Ike and for FEMA directly for their headquarters in Virginia for projects throughout the United States. With our experience handling many types of projects, CDM Smith brings proven expertise and full service program management, architectural, engineering and environmental capabilities to communities struck by natural disasters.

Our level of understanding and experience with the requirements of the State's RFQ is demonstrated in the following portfolio of project experience as well as in Tab 8 - Additional Experience of the CDM Smith Team.



**Subconsultants**  
**Amy S. Greene**  
**Environmental**  
**Consultants Inc.**  
**(ASGECI)**

ASGECI has provided professional environmental services to Federal, state and local public agencies and private sector clients for over 3,500 projects in 11 states to facilitate planning, design, permitting and construction. ASGECI holds a GSA Schedule in Special Items for Environmental Planning Services and Documentation Numbers 899-1 & 899-1RC (Disaster Recovery) and Geographic Information Services 899-7 and 899-7RC (Disaster Recovery).

ASGECI has performed environmental screening analyses and prepared and contributed many levels of environmental documents including Categorical Exclusion Documentation (CED), Environmental Assessments (EAs) and Environmental Impact Statements (EISs) in accordance with National Environmental Policy Act regulations. They have also prepared EAs/EISs in accordance with State requirements and local municipal ordinances, and performed hundreds of wetland delineations and inventories of wetland and upland habitats in accordance with both U.S. Army Corps of Engineers Section 404/10 and NJDEP coastal and freshwater wetlands protection methodologies. ASGECI has also performed surveys for endangered and threatened species in accordance with methodologies outlined by NJDEP under the Endangered and Nongame

Species Act and by USFWS/NOAA NMFS under the Endangered Species Act.

ASGECI has also obtained NJDEP Freshwater Wetland and Coastal Wetlands permits as well as US Army Corps of Engineers wetlands permits and obtained State and regional environmental permits including NJDEP Flood Hazard Area Permits in accordance with the NJ Flood Hazard Area Control Act and CAFRA and Waterfront Development in accordance with the Coastal Zone Management Act Rules and NJ Tidelands licenses. Review of in-house project GIS mapping may include determination of applicability with the Wild and Scenic Rivers Act. ASGECI has provided environmental services on projects where FEMA statutory requirements were involved.



**Brownfield**  
**Redevelopment**  
**Solutions, Inc. (BRS)**

BRS, a New Jersey certified small business enterprise

(SBE) is a unique consulting firm specializing in providing turnkey technical assistance for environmental remediation projects. With over 25 years cumulative experience in environmental management and policy, BRS provides quality expertise that can be brought to bear on any remediation project endeavour, guaranteeing an unqualified success.



**Hunter Research, Inc.**

Hunter Research, Inc. (HRI) has conducted

nearly 1,700 cultural resource projects in the Northeastern United States since its establishment in 1986 as a full-service cultural resource management company. Typical services have included reconnaissance and survey-level historic architectural and archaeological studies as well as mitigation operations such as HABS/HAER documentation and archaeological data recovery through large-scale excavation and monitoring. Hunter Research has also received numerous New Jersey State Historic Preservation awards in recognition of the quality of its work. Most recently, the company has been directly involved in the conservation, interpretation and display of the archaeological site of Petty's Run in Trenton, NJ as a major addition to the historic resources of the State Capitol area.

Throughout the firm's quarter century of business operations Hunter Research has contracted with numerous state and federal agencies on a task order/indefinite quantity basis, notably with state departments of transportation, the U.S. Army Corps of Engineers districts, the Natural

Resources Conservation Service and the New Jersey Schools Development Authority. As a result of working on contracts of this type the company is experienced in providing a range of services at short notice, from preliminary desktop assessments and background research studies to field evaluations to more complex documentation, monitoring and mitigation projects. Of particular relevance to New Jersey's CDBG-DR Grant Program as it applies to Superstorm Sandy are multiple cultural resources studies carried out in the 1990s and early 2000s in New Jersey's shore communities in connection with U.S. Army Corps of Engineers shoreline protection and flood damage reduction projects. Over the same period our firm was also routinely engaged by cell phone companies to provide initial cultural resources assessments of potential cell phone tower locations, a type of work that involved preliminarily studying multiple sites concurrently by means of desktop analyses, background research and site inspections.

Currently the firm is also engaged in providing on-call archaeological monitoring and documentation services for the National Park Service in the wake of Superstorm Sandy damage to Liberty Island and Ellis Island in New York Harbor. Similar monitoring services have been provided at short notice to the NJDEP within recent weeks at the Moore's Beach restoration project in Cumberland County. Over the past 25 years the firm has periodically worked on HUD CDBG projects requiring compliance with Section 106 of the National Historic Preservation Act. This work has mostly taken the form of site-specific urban redevelopment projects in Trenton, Paterson, Jersey City, Newark and New Brunswick and has involved the provision of both historic architectural and archaeological services. Our most recent HUD-related project, conducted in 2012, centered on an affordable housing project in the rural Monmouth County village of Clarksburg where evaluation of a property containing an early 19th-century farmstead required building and site evaluation and agency coordination within a short time frame.



**Lammy & Giorgio's,  
P.A. (LG)**

LG's practice is broad in scope and varied in scale with projects ranging from modest

structures to complex building developments. Their resume includes work for schools, hospitals, health service organizations, private clubs, churches, and municipal, state and federal agencies. Projects have included building evaluations, cost studies, reports, phased renovations, additions, and adaptive re-use of older structures. They

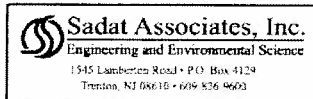
have dealt with numerous historic preservation projects where they have been required to assess issues, document existing conditions, and recommend treatment methods. All treatment methods are reviewed against the Secretary of Interior's Standards for Treatment of Historic Properties and with HPO at early informal reviews. They will be available to present the historic aspects of the project to the CDM Smith Project Team. If required, they will also prepare necessary renderings and documents and assist in presenting the project to the New Jersey Sites Council.



**Richard Grubb & Associates,  
Inc. (RGA)**

RGA is a full-service cultural resource management firm established in 1988. They assist public and private clients through the process of complying with federal, state,

county, and municipal cultural resource and historic preservation regulations. RGA's multi-disciplinary staff of cultural resource professionals have met or exceeded the Secretary of Interior's Qualifications Standards (36CFR61) for archaeology, architectural history, and history. The Principal Investigators for archaeology have performed or supervised site assessments and screenings, Phase IA, Phase I and Phase II archaeological surveys and Phase III data recovery investigations of prehistoric and historic sites. The Principal Investigators for architectural history and history have performed or supervised reconnaissance and intensive-level architectural surveys and have successfully completed cultural resource mitigation, including HABS/HAER documentation, interpretive displays, educational brochures, preservation plans, and bridge preservation covenants. All Principal Investigators routinely undertake assessments of National Register eligibility and effects, assess projects for adherence to the Secretary of the Interior's Standards for the Treatment of Historic Properties, and consult and coordinate with the various State Historic Preservation Offices for the preparation and completion of Memorandum of Agreement stipulations and other mitigation measures. RGA also has a full-scale archaeological laboratory and qualified staff to ensure compliance with 36CFR79, Curation of Federally-Owned and Administered Archaeological Collections.



**Sadat Associates, Inc.  
(SAI)**

SAI is a full-service environmental science and engineering consulting firm located in Trenton, NJ. Founded in 1986 by Marwan M. Sadat, Ph.D., P.E., LSRP, SAI handles a wide variety of



environmental and civil engineering projects in the areas of geotechnical engineering, brownfield redevelopment, risk assessment, solid waste, landfill design and closure, hazardous waste, wastewater management and design, groundwater management, water supply design, air quality analysis, regulatory compliance, and dam safety. SAI is considered by its clients to be the premier firm for providing fast and efficient service. As an example, New Jersey Business and Industry Association, in its 2003 Awards for Excellence, awarded their Environmental Quality Award to SAI for its fast track in the permitting and design of a North Wildwood project involving redevelopment of an old municipal landfill for mid-rise condominiums, which involved complex geotechnical investigation and design.

The firm's strengths come from the strong scientific background of its associates and staff and a thorough knowledge of agency rules, regulations and policies. The experience of the engineers and scientists at SAI was gained not only from helping clients comply with environmental policies, but also from helping shape those policies while serving in critical management positions within the NJDEP. SAI staff have maintained sound working relationships with key decision makers within the agency and, based on a thorough understanding of the basis and background to regulations and procedures, are able to assist clients in permitting efforts and remediation strategies.

#### YU & Associates (YU)



YU provides comprehensive environmental management solutions to local, state and federal governments and

industrial, municipal, and commercial clients. To address environmental concerns, they provide a full spectrum of environmental investigation, remedial design, remediation, compliance, engineering consulting, and construction services. Having personnel with decades of experience in the industry, they have built long-term relationships with our clients and customize their project delivery system to meet the specific technical requirements, financial constraints, and regulatory mandates. They integrate and apply technology and management strategies that provide 'best value' results, and deliver low cost, low risk, and high quality performance through a comprehensive client-focused approach based on the principles of safety, quality, and effective cost/schedule management.

#### The CDM Smith Team

The CDM Smith Team organization presented in Figure 5-2 illustrates the strength of experience that CDM Smith has available for this very important project, as well as the staff of our seven SBE subcontractors. The key staff includes professionals that represent twenty years of CDBG experience, including extensive experience completing all levels of HUD-funded CDBG-DR programs and Hazard Mitigation Grant Program (HMGP), HUD National Environmental Policy Act (NEPA) reviews, FEMS statutory reviews, and Section 106 of the National Historic Preservation Act of 1966 reviews. In addition, the team features highly skilled and experienced professionals, including those with unsurpassed expertise in developing policy and procedures for catastrophic disasters such as Sandy, Katrina, Rita, Gustav, Ike, Dolly, Midwest flooding and many others over the years. Not only are these years of experience key with this team, but the lessons learned and program diversification this team brings to the project is unmatched and critical to the success of this project.

Our streamlined project team structure identifies key people and their respective project responsibilities. In order to provide our services most effectively, we have designated Maria D. Watt, P.E. as our Program Director. Ms. Watt will serve as a direct liaison with the state to provide guidance and direction in the execution of critical tasks, while ensuring that all necessary technical resources are made available as appropriate. She will have access to the full range of expertise available throughout CDM Smith and our SBE subcontractors, and will work with Mr. F. Mack Rugg, our proposed Technical Director to identify those individuals whom are most appropriate to address any issue of concern.

Brief biographies of our key project team staff are presented below and detailed resumes for the entire CDM Smith Team are presented in Section 6. Table 5-1 provides the names of all management, supervisory, key personnel and other project personnel assigned to the contract, their project role (s), and the corresponding labor titles specified in the cost quote price schedule 2 for EAF Contractors.

Thomas R. Schoettle, P.E., BCEE – Officer- in-Charge has 25 years of diverse experience in the field of water and wastewater engineering, with significant contributions on planning, design and construction projects throughout New Jersey and New York. As the Officer-in-Charge, Mr. Schoettle will ensure client satisfaction throughout the project, serve as the point of contact for all contractual issues, and see to it that Ms. Watt and Mr. Rugg have



appropriate resources directed as necessary to complete each assignment task in accordance with the State's scope and schedule requirements, and proactively providing quick responses to any concerns or needs.

**Maria D. Watt, P.E. – Program Director** has over 28 years of extensive experience in managing multi-task, multi-disciplinary programs requiring team coordination and agency negotiation. Her background includes a wide variety of environmental assessments, restoration and Brownfields redevelopment projects. Ms. Watt's recent disaster recovery experience includes being positioned as the principal-in-charge for the New Jersey Department of Community Affairs (NJCA) contract to develop New Jersey's Action Plan in response to Superstorm Sandy as well as the development of procurement documents to facilitate obtaining the proper resources to implement the HUD approved Action Plan. Her well-rounded expertise provides exceptional skills for the environmental assessment, redevelopment and restoration of urban and coastal environments. Ms. Watt mobilized a team of over 30 staff to the NJCA office in Trenton within 48 hours of notice of award. This highly experienced disaster recovery team developed a Draft Action Plan that included a detailed needs assessment within 5 business days. In addition to the above NJCA support, CDM Smith assisted the New Jersey Department of Environmental Protection (NJDEP) in performing environmental reviews of HUD-funded programs for recovery from Superstorm Sandy. CDM Smith helped NJDEP prepare Tier 1 environmental assessments for the Rehabilitation, Reconstruction, Elevation and Mitigation (RREM) Program for single-family homes and the portion of the Small Rental Properties Program for buildings with up to four residential units. CDM Smith helped modify the Tier 1 EA to meet the requirements of FEMA, and drafted the checklist to be used in Tier 2 site-specific review.

**F. Mack Rugg – Technical Director** specializes in environmental impact assessment and regulatory analysis. He has 28 years of experience in the environmental field, and for the past 7 years, his primary professional activity has been environmental reviews of projects proposed for funding by the U.S. Department of Housing and Urban Development (HUD). His work has received favorable reviews from the HUD Office of the Inspector General and HUD environmental personnel in Washington, D.C. Mr. Rugg helped NJDEP prepare the first Tier of a Tiered environmental assessment for HUD-funded rehabilitation and reconstruction of housing in the nine New Jersey counties most affected by Superstorm Sandy. The environmental

assessment covers programs for single-family housing and rental properties with one to four housing units. Mr. Rugg also helped NJDEP create an annotated form for use in the site-specific Tier of the Tiered review. While helping create the Tier 1 and Tier 2 documents, he helped NJDEP personnel learn the HUD environmental review process.

**Jonathan M. Enser, PMP – System Design /Manager** is a management consultant providing leadership in program controls and systems at CDM Smith. He specializes in leading project teams to align program goals, controls' business processes, and information technology to provide overall program control system solutions. He has experience across numerous industries in the areas of business analysis, process improvement, information architecture, project management, financial/schedule controls, performance dashboards, and system implementation. For Harris County and the City of Galveston "Ike" CDBG-DR Programs, Mr. Enser led a system team to implement grant management systems to support housing disaster recovery programs with grant allocations in excess of \$200 million.

**Steven C. Green, CPA – Senior Advisor** is part of CDM Smith's team to serve as program administrator on federally funded disaster recovery projects, and is responsible for the design and oversight of all financial operations. As Financial Manager, Mr. Green also assists in the selection, negotiation, contracting and oversight of subcontractors. This position requires expertise in Federal regulations, contract negotiations, accounting policies and controls, and project management. He also assists in the development and implementation of project policies and procedures especially in dealing with CDBG requirements. Mr. Green assists with the design of and controls in software applications used on these projects. Since joining CDM Smith, Mr. Green has worked on project management on several disaster recovery projects including Galveston and Harris County, Texas, Minot, North Dakota, and the States of Illinois and New Jersey.

**Michael Spletto – HUD CDBG Housing** has more than 25 years of experience in the field of community development and the administration of federal grants. He has extensive knowledge and experience with CDBG, CDBG Disaster, and HOME programs, in addition to having played a key role in many of the largest disaster programs in the country. Mr. Spletto has delivered numerous training sessions related to CDBG, HOME, HUD environmental requirements (24 CFR part 58), lead-based paint, Section 504, labor standards, HUD compliance monitoring, HQS, strategic planning, and other related housing topics. For the State of North Dakota, Mr. Spletto managed the HOME

program from 1992 to 2006 which, according to HUD's "snapshots," has the number one ranked HOME program of all state participating jurisdictions. He has been in the field of Community Development since 1989. Mr. Spletto also served as the Program Manager for tasks associated with and on-call contract with the NJDCA, organizing a team of over 30 CDBG experts in three days to guide the NJDCA in developing a Draft Action Plan that included a detailed needs assessment within five business days. In addition to the fast-tracked Action Plan, he also led the team in providing long-term planning; CDBG-DR program specific policies and procedure development; and Internal NJDCA policy and procedure development. He led the effort to create a variety of Requests for Proposals to assist the NJDCA in meeting federal guidelines and procuring contractors to implement the various programs developed in the Action Plan.

**David K. Brauner, CEM\*, CFM – Technical Advisor** has 31 years of comprehensive emergency management experience. Having begun his career with the dawn of the Federal Emergency Management Agency, his background and experience is extensive in the fields of preparedness, response, recovery and hazard mitigation. In all, Mr. Brauner was a chief architect of the current Federal Response Framework and a recognized authority in the Robert T. Stafford Disaster Relief and Emergency Assistance Act as well as the Disaster Mitigation Act of 2000. Mr. Brauner held key leadership roles in field centric disaster operations, planning, and logistics. In all, Mr. Brauner has had direct administration of and responsibility for the disbursement of \$7.4 billion in Public Assistance and Section 406 Hazard Mitigation Proposals and related grant funding. In addition, Mr. Brauner adjudicated approximately \$1.3 billion in formal first and second level Public Assistance appeal proceedings. Mr. Brauner holds formal certifications in emergency, floodplain and construction inspection management. Mr. Brauner serves the NJDCA's Principal Advisor relative to the Public Assistance and Hazard Mitigation Grant Programs administered by the FEMA and their interrelationship with the CDBG-DR mechanisms administered by the HUD. Mr. Brauner contributed to the formulation of the formal New Jersey Action Plan, and provides subject matter expertise and programmatic liaison among the NJDCA and NJDEP as circumstances and situations warrant.

**Henry R. Boucher, P.E., BCEE, AICP, Principal Advisor – NEPA Compliance/Technical Review** has over 38 years of experience as an environmental engineer and planner, with expertise in the fields of environmental and socioeconomic

impact assessment, environmental permitting, planning, and engineering, transportation planning, solid waste management, land use development, and utility rate-making and financing. He has prepared environmental impact reports under CEQA, environmental impact statements under NEPA, socioeconomic impact analyses, regulatory studies, comprehensive and specific land use plans, and site analyses. In addition, he has prepared feasibility studies and facility plans for wastewater, hazardous and solid waste, and water projects. He has substantial experience participating in various types of public forums on environmental issues and has written extensively on technical subjects for non-technical audiences. Mr. Boucher was senior planner for environmental review of housing developments proposed by housing authorities on the Mississippi Gulf Coast. The environmental reviews were conducted in accordance with HUD regulations per 24 CFR parts 51, 55 and 58. These projects received environmental clearance and became eligible for a share of HUD funds administered by the Mississippi Development Authority. For FEMA, Mr. Boucher served as the project manager for environmental and historic preservation compliance documentation for thirteen hazard mitigation projects in California, Hawaii and American Samoa.

**Henry "Hank" Manning – CDBG Compliance (Non-Housing)** has more than 30 years in the field of community development including 29 years administering federal grant programs and 5 years as a city administrator. He has extensive knowledge and experience with the CDBG program and CDBG-DR. He played a key role in disaster recovery activities following the Midwest floods of 2008, and has delivered numerous training sessions related to CDBG including environmental review, procurement, green sustainability initiatives, and other related topics. For the State of Iowa, Mr. Manning also managed CDBG funds for water/sewer, disaster recovery, childcare centers and other community facilities, community wind turbines, downtown revitalization, and community sustainability. For the Harris County CDBG-DR infrastructure program, he consulted with project delivery staff on best practices for administering CDBG-DR programs including alternate methods of environmental review for disaster recovery projects. Mr. Manning also assisted in program delivery for CDBG-DR housing and infrastructure programs and consulted with disaster recovery program staff on best practices for CDBG disaster recovery projects.

**Dwight R. Dunk, L.P.D., P.W.S., Principal Advisor – Wetlands/Endangered Species** is a senior environmental scientist with over 25 years of experience during which he

grew his professional and academic practice developing interdisciplinary solutions to environmental challenges. He applies his expertise to projects nationwide servicing federal, state and local clients. His recent academic research developed an empirical model to value natural resource damages from coastal oil spills and applied principles of regulatory economics to prove the efficacy of simplified models for that purpose. Dr. Dunk's primary scientific expertise is in the field of freshwater and coastal wetland ecology including: delineation; function / value assessment; environmental impact assessment; ecological/ wetland mitigation planning, design and construction oversight; plus Stage I ecological risk assessment; and feasibility and planning studies. Environmental policy/ permitting experience includes preparing National Environmental Policy Act (NEPA) documents and state level equivalents as well as securing federal, state and local environmental permits.

**William P. Lammey, AIA, Principal Advisor – Historic Preservation** a principal of Lammey & Giorgio, is actively involved in all phases of management and design of the firm's projects. His resume includes an extensive array of projects for public and private institutional clients, governmental agencies, health organizations, educational institutions, and housing authorities. Mr. Lammey exceeds the qualifications of 36 CFR Par 61, National Parks Services Standards for Architecture and Historic Architecture. He has over 35 years of experience with projects involving historic buildings, including new facilities that are integrated within historic sites. He has worked with the New Jersey State Historic Preservation Office, New Jersey Historic Trust and local historic district review boards in order to obtain project approval. He has also been exposed to an array of public and private historic preservation projects including being the Principal- in-Charge for multiple projects as the NJ Executive State House and for over 200+ projects with NJDEP and NJDPMC. Mr. Lammey has also been the Principal-in-Charge for over 30 New Jersey agency consultant contracts, providing design, historic preservation review and construction management services for over 500 facilities projects in all of the major institutions and buildings utilized by the State of New Jersey.

**Rebecca S. Jablon, AICP, LEED AP\* – Task Order Manager** is a city and regional planner with experience on an array of projects involving sustainability and environmental planning. She has a background in performing environmental review conforming to the requirements set forth by the National Environmental Policy Act (NEPA)

for a variety of disaster recovery projects. Ms. Jablon aided the NJDEP as they began the environmental effort to assist the New Jersey in Superstorm Sandy recovery efforts. Ms. Jablon helped determine the general level of environmental review required for various program activities, and drafted the certificates of exemption and categorical exclusion documentation (not subject to 24 CFR 58.5) for applicable activities. She aided in the development of the environmental review forms, and the finding of no significant impact and request for release of funds. In Minot, North Dakota, Ms. Jablon is part of the CDBG-DR Program project team, leading the environmental effort to assist the City in roadway and utility infrastructure redevelopment and enhancements, as well as approximately 250 households whose homes have been damaged or destroyed by a June 2011 severe flooding event. She supervises a team of environmental scientists and planners and oversees the completion of the Environmental Review Records (ERRs) per the HUD NEPA requirements.

**Patrick W. Dunn, CFM – Task Order Manager** specializes in performing HUD environmental reviews to comply with the NEPA as set forth in 24 CFR Part 58. His project experience includes disaster recovery projects and the City of Chicago's CDBG programs. Mr. Dunn is also knowledgeable in geographic information system (GIS) technology, and his skill set includes using the ArcGIS software package to support data conversion, map production, and data analysis. Mr. Dunn is also the environmental review officer for the project team providing program management for the Illinois Department of Commerce and Economic Opportunity's CDBG-DR funds. He is responsible for the design and implementation of the environmental review process for the disaster recovery projects administered by CDM Smith to ensure compliance with HUD's environmental regulations under NEPA. He determines the level of environmental review for each project, manages the environmental review process, and provides technical assistance and oversight for compiling an ERR leading to the issuance of environmental clearance. Mr. Dunn has completed or overseen completion of more than 1,150 environmental reviews, which included exempt projects, categorically excluded projects, and environmental assessments. In the program, there were 15 tiered environmental reviews.

**Kelly A. Simmons – Task Order Manager** is an environmental scientist with 17 years of combined professional experience that is based upon a biology/ marine biology background and includes knowledge of

marine biology, ecology and microbiology research. Ms. Simmons is experienced in the preparation of ERRs as part of the NEPA process for federal agencies such as HUD and Environmental Impacts Statements (EIS) for clients such as the Federal Aviation Agency (FAA) and U.S. Army Corps of Engineers (USACE). She has also participated in the preparation of Project Worksheets for FEMA as for the Public Assistance portion of the Nassau County New York Hurricane Sandy Disaster Recovery program. For the Illinois "IKE" Disaster Recovery Program, Ms. Simmons prepared the ERRs, flood plain notices and combined Finding of No Significant Impact (FONSI) and Request for Release of Funds (RROF) forms necessary to show the state that projects proposed under the Public Infrastructure, Property Buy-out and Economic Development-Business Stimulus and Community Stimulus Programs would not significantly impact the human environment. As part of this process, Ms. Simmons directly collaborated with grant managers, municipal applicants, an Illinois-based environmental sub consultant and interested state agencies, such as the Illinois Historic Preservation Agency, to obtain the information and approvals needed to complete the ERRs and provide the information needed for the state to release the recovery funds to the municipalities. For Hancock and Stone County, Mississippi, Ms. Simmons prepared the 8 Step wetland decision making process documents, early and late floodplain notices, Finding of No Significant Impact (FONSI) and Request for Release of Funds according to NEPA EA/HUD guidelines for 10 of the projects identified. Ms. Simmons also assisted with writing the Wetland and Floodplain portions of the EA and with compiling the ERR for each of the ten projects.

**George J. Carbo, AICP – Task Order Manager** has more than 20 years experience in planning and zoning projects in multiple states. He has been responsible for preparing planning studies, compiling environmental assessments, reviewing and writing ordinances, drafting proposals with developers, code enforcement, informing media and citizens of developments and upcoming projects, GIS mapping, and creating phased plans for development and redevelopment projects. As the task manager/ environmental planner for the Coastal Protection and Restoration Authority, Mr. Carbo prepared multiple environmental reports on behalf of the State of Louisiana for a variety of coastal restoration project. Environmental reviews included environmental assessments and HUD categorical exclusions. Documentation included NEPA compliance and the 8-step decision making process for

projects within the floodplain and wetlands. Mr. Carbo was the environmental planner for the CDBG-DR Program in Minot, North Dakota, where wrote two broad review environmental assessments utilizing a tiered review process for multiple sites. The projects included acquisition of flooded properties and housing rehabilitation and reconstruction. The broad review documents demonstrated NEPA and HUD environmental compliance, including the strategy for individual site compliance documentation. As an environmental planner for the Illinois "Ike" Disaster Recovery Program, Mr. Carbo was part of the project team performing NEPA environmental assessments for the public infrastructure and community stabilization programs.

**Nanette Vignola-Henry – Task Order Manager** has considerable experience in environmental impact assessment, facility permit applications, wetland investigation, environmental resource management, and community relations. She has supervised and prepared environmental impact statements (EISs) for both private and municipal clients for development projects of varying types and magnitudes. Ms. Vignola-Henry has been involved in New York State Environmental Quality Review-related (NYSEQR) public participation programs. She has assisted in the preparation of scoping documents to highlight potential impacts of controversial projects, community information newsletters, and public presentations. She also has expertise in urban and regional planning of water resources and wildlife and habitat management. As the project manager for an environmental impact statement in Orange County, New York, Ms. Vignola-Henry managed the preparation of the NYS SEQR required EIS for the upgrade and expansion of the Harriman WWTP. For the long-term, land-based sludge management plan for the Westchester County Department of Environmental Facilities (DEF), Ms. Vignola-Henry served as task manager with responsibility for preparing a NYSEQR EIS.

Table 5-1. Management, supervisory, key personnel and other project personnel assigned to the contract.

<b>Name/Title</b>	<b>Project Role - Organization Chart</b>	<b>NJCDBG Labor Category</b>
Kyrie Teel	Administrative Support/Data	Administrative Support/Data
Robert W. Ball, RPA	Historic Preservation/Cultural Resource	Principal/Senior Historic Preservation
Jessica R. Beattie, P.G., ENV SP	Environmental Investigations	Senior Hydrogeologist
Henry R. Boucher, P.E., BCEE, AICP	Principal Advisor - NEPA Compliance/ Technical Review	Principal
David K. Brauner, CFM	Principal Advisor - FEMA Compliance	Principal
George J. Carbo, AICP	Task Order Manager	Task Manager
Dwight R. Dunk, L.P.D., P.W.S.	Wetlands/Endangered Species	Principal
Patrick W. Dunn, CFM	Task Order Manager	Task Manager
Marcie A. Encinas	Environmental Review Records	Staff Env. Scientist
Jonathon Enser, PMP	Information Management - System Design/Manager	Task Manager
Patricia K. Forgang, CHMM	Environmental Investigations	Senior Env. Scientist
Steven Green	Information Management - Senior Advisor	Principal
Melissa A. Harclerode, ENV SP	Environmental Investigations	Staff Env. Scientist
Alexandra H. Kleyman	Environmental Review Records	Staff Env. Scientist
Jessica A. Kretch	Field Assessment	Field Professional
Rebecca S. Jablon, AICP, LEED AP*	Task Order Manager	Task Manager
Henry "Hank" Manning	Principal Advisor - CDBG Non-Housing	Principal
George Molnar	Wetlands/Endangered Species	Senior Biologist
Niriam Parker	Administrative Support/Data	Administrative Support/Data
Eric C. Pescatore, CFM, GISP	gis	Senior GIS Specialist
Melissa A. Peters	Environmental Review Records	Field Professional
Matthew E. Petty	Wetlands/Endangered Species	Staff Env. Scientist
Andrew R. Poyant	Environmental Review Records	Field Professional
F. Mack Rugg	Technical Director	Program Director
Thomas R. Schoettle, P.E., BCEE	Officer-in-Charge	Principal
Kelly A. Simmons	Task Order Manager	Task Manager
Michael Spletto	Principal Advisor - HUD CDBG Housing	Principal
Nanette Vignola-Henry	Task Order Manager	Task Manager
Maria D. Watt, P.E.	Program Director	Program Director
Nhan Dang	Field Assessment	Field Observer
Jonathon Marino	Field Assessment	Field Observer
Erik Lukjantschenko	Field Assessment	Field Observer
Wen Liu, Ph.D., EIT	Field Assessment	Field Professional
Richard Kurisko, NJLSRP	Field Assessment	Staff Env. Scientist
Randy S. Kertes, P.G., CPG	Field Assessment	Senior Hydrogeologist
Jerome J. Harcar	Historic Preservation/Cultural Resource	Senior Hist Pres Specialist
Matthew J. Brener, P.E.	Field Assessment	Engineer
Michele L. Christina	Field Assessment	Senior Env Scientist
Kevin McAllister, P.G.	Field Assessment	Senior Hydrogeologist
Leah B. Yasenachak, PhD, AICP/PP, CEcD, EDP	Field Assessment	Senior Env. Scientist
Beth Landers	Field Assessment	Field Professional

Table 5-1. cont'd.

Name/Title	Project Role - Organization Chart	NJCDBG Labor Category
Andrea Mules	Field Assessment	Field Professional
Andrew Leung, P.E.	Field Assessment	Senior Engineer
Charles McCusker, P.G., CHMM, LSRP	Environmental Investigations	Senior Env Scientist
William P. Lammey, AIA	Historic Preservation/Cultural Resource	Principal
Grant C. Peatman, AIA, CID	Historic Preservation/Cultural Resource	Senior Historic Preservation Spec
Paul J. McEachen, RPA	Historic Preservation/Cultural Resource	Senior Historic Preservation Spec
Damon Tvarynanas	Historic Preservation/Cultural Resource	Field Professional
Patrick Harshbarger	Historic Preservation/Cultural Resource	Field Professional
Richard W. Hunter, RPA	Historic Preservation/Cultural Resource	Senior Historic Preservation Spec
James Lee, RPA	Historic Preservation/Cultural Resource	Field Professional
Lynn Brass-Smith	Wetlands/Endangered Species	Field Professional
Douglas J. Chabrak, PWS	Wetlands/Endangered Species	Field Professional
J. Maxwell Devane	Wetlands/Endangered Species	Senior Biologist
Amy S. Greene, PWS	Wetlands/Endangered Species	Senior Env Scientist
Jennifer LaStella	Wetlands/Endangered Species	Field Professional
John R. Pabish	GIS	Junior GIS Specialist
Susan C. Quackenbush, PWS	Wetlands/Endangered Species	Field Manager
William M. Romaine, PWS	Wetlands/Endangered Species	Senior Environ Scientist
Sean J. Ronan	GIS	Senior GIS Specialist
Harry Strano	Wetlands/Endangered Species	Field Professional

## Maria D. Watt, P.E.

### Program Director

Ms. Watt has over 28 years of extensive experience in managing multi-task, multi-disciplinary programs requiring team coordination and agency negotiation. Her background includes a wide variety of environmental assessments, restoration and Brownfields redevelopment projects. Ms. Watt's recent disaster recovery experience includes being positioned as the principal-in-charge for the New Jersey Department of Community Affairs contract to develop New Jersey's Action Plan in response to Superstorm Sandy as well as the development of procurement documents to facilitate obtaining the proper resources to implement the HUD approved Action Plan. Her well-rounded expertise provides exceptional skills for the environmental assessment, redevelopment and restoration of urban and coastal environments.

**NJDCA Superstorm Sandy Action Plan, Procurement Documents and Environmental Review Support. Principal-in-Charge. Dates 2/2013 to present.** Ms Watt serves as the Principal-in-Charge for the NJDCA on-call contract. Ms. Watt mobilized a team of over 30 staff to the NJDCA office in Trenton within 48 hours of notice of award. This highly experienced disaster recovery team developed a Draft Action Plan that included a detailed needs assessment within 5 business days. Action Plans typically require 30-45 days to complete. Extensive resource mobilization and management, weekly financial reporting and daily tracking of progress and deliverables were critical on such an expedited schedule. This high profile project required extensive communication and coordination with the Governor's representatives. A high quality document produced on an expedited schedule received HUD approval. In addition to expediting the development of the Action Plan, the team simultaneously began development of procurement documents to obtain additional resources and teams needed to implement the Action Plan. In addition to the above DCA support, CDM Smith assisted the New Jersey Department of Environmental Protection in performing environmental review of HUD-funded programs for recovery from Superstorm Sandy. CDM Smith helped DEP prepare tier 1 environmental assessments for the Rehabilitation, Reconstruction, Elevation and Mitigation (RREM) Program for single-family homes and the portion of the Small Rental Properties Program for buildings with up to four residential units. CDM Smith helped modify the tier 1 EA to meet the requirements of FEMA. CDM Smith also drafted the checklist to be used in tier 2 site-specific review.

**NJDEP Environmental Restoration Term Contract, Harrison Ave Landfill Brownfields Redevelopment, Camden, New Jersey. Program Manager. Dates: 2009/2011.** Ms. Watt serves as the Program Manager on this multi-million dollar major restoration program under this 5-year on-call contract including a recent expedited Brownfields redevelopment project on a former hazardous waste landfill in an urban community. Extensive stakeholder involvement maximized site reuse. This highly visible and cornerstone project served to reduce poverty, create local jobs, strengthen community institutions, and catalyze neighborhood revitalization. She received commendations from the client and agencies for expediting the environmental assessment and ultimate site redevelopment.

**NJDEP Environmental Restoration Term Contract, Liberty State Park Freshwater Wetland Ecosystem Restoration Project, Jersey City, New Jersey. Program Manager.**

#### Education

B.S. - Chemical Engineering, Rutgers University, New Brunswick, New Jersey; 1985

#### Registration

Professional Engineer: New Jersey

#### Years Experience:

With Firm: 9  
Total Years: 28



**Dates: 2011 to present.** Ms. Watt serves as the Program Manager on this multi-million dollar major restoration program under this 5-year on-call contract including the design and construction management services for the creation and restoration of wetlands at Liberty State Park (LSP). The LSP ecosystem restoration project was chosen to serve as the site model for implementing the overall area-wide restoration of the Hudson-Raritan Estuary Ecosystem Restoration program. The implementation plan ultimately developed for LSP includes the phased-in restoration of the 230-acre park. The four components of the phased restoration project include the creation of approximately 46 acres of salt marsh, the creation and enhancement of approximately 26 acres of freshwater wetlands, the creation of approximately 50 acres of warm weather grasslands and the enhancement of approximately 100 acres of urban forest comprised of successional northern hardwoods and maritime shrubland. This project helps to restore the locally endangered ecological habitat, enhances overall park connectivity for increased public use and benefit, and is an important first step of an ambitious restoration process for the Port District section of the Hudson-Raritan Estuary.

**Occidental Chemical Corporation (OCC) Environmental Impact Statement. Project Manager. Dates: 1988 to 1995.** Ms. Watt served as the Project Manager for three major Environmental Impact Statements for the remediation of the Love Canal Site located in Niagara Falls, New York. Ms. Watt expeditiously mobilized a team of over 50 engineers and scientists and created an on-site team of specialist to develop three multi-million dollar Environmental Impact Statements in accordance with Federal NEPA and New York State SEQRA requirements. The expedited response was required to meet an aggressive Administrative Consent Order schedule. The environmental impacts from the solid waste incinerator, liquid waste incinerator and the centralize waste dewatering and storage facility were the assessed using site-specific traffic, noise, air modeling, wetland and endangered species and toxic chemical analysis. Ms. Watt received client commendations for delivering high quality environmental impact statements (EIS) for the incinerators and storage facility to dispose of the Love Canal waste. A state-of-the-art cumulative impact assessment was negotiated with the New York State Department of Environmental Conservation (NYSDEC) in response to new EPA guidance. Protocols were developed that set precedence for NYSDEC EIS policy.

**Environmental Review for Demolition of Public Housing in Newark, New Jersey. Senior Technical Advisor. Dates: 2007-2008.** Ms. Watt served as a Senior Technical Advisor for the preparation of a complete environmental assessment for proposed demolition of two public housing developments with a total of 32 buildings and 791 housing units. The environmental assessments were completed in accordance with HUD regulations in 24 CFR Part 58. A phase I environmental site assessment (ESA) was prepared as part of the environmental assessment for each housing development. The ESAs addressed asbestos, lead-based paint, and other hazardous materials.

**USEPA Region 2 Alternative Remedial Contracting Strategy II (ARCS II) Brownfield Program. Dates: 2004-2006.** Ms. Watt served as Program Manager for the EPA Region 2 Brownfield Grant Program where Targeted Brownfield Assessment (TBA) and Brownfield's Community Relations work was performed to assist cities, municipalities and communities with Brownfield redevelopment and urban restoration. She has received numerous commendations during the course of the program.

## F. Mack Rugg Technical Director

With advanced degrees in law and environmental science, Mr. Rugg specializes in environmental impact assessment and regulatory analysis. He has 28 years of experience in the environmental field. For the past 7 years, his primary professional activity has been environmental review of projects proposed for funding by the U.S. Department of Housing and Urban Development (HUD). His work has received favorable reviews from the HUD Office of the Inspector General and HUD environmental personnel in Washington, D.C.

**Adviser to New Jersey Department of Environmental Protection, HUD Environmental Review of Superstorm Sandy Housing Recovery Programs (March to May 2013).** Mr. Rugg helped NJDEP prepare the first tier of a tiered environmental assessment for HUD-funded rehabilitation and reconstruction of housing in the nine New Jersey counties most affected by Superstorm Sandy. The environmental assessment covers programs for single-family housing and rental properties with one to four housing units. Mr. Rugg also helped NJDEP create an annotated form for use in the site-specific tier of the tiered review. While helping create the tier 1 and tier 2 documents, he helped NJDEP personnel learn the HUD environmental review process.

**Task Manager, Environmental Review of Housing Projects Proposed for HUD Funding (February 2007 to October 2010).** For the Mississippi Development Authority, Mr. Rugg managed environmental review of housing developments proposed by housing authorities on the Mississippi Gulf Coast following Hurricane Katrina. Mr. Rugg led the preparation of 15 environmental assessments for new construction, 4 reviews of categorically excluded housing rehabilitation projects, and 2 reviews for purchase of housing developments by a housing authority.

**Technical Reviewer for FEMA EHP Review in Three Regions (December 2010 to present).** Mr. Rugg has served as CDM Smith's primary technical reviewer for environmental and historic preservation (EHP) review of proposed hazard mitigation projects in Texas (Region VI), Kansas (Region VII), and California (Region IX). He is familiar with FEMA's requirements for records of environmental consideration (RECs), environmental assessments, and environmental impact statements.

**Lead Technical Reviewer and Adviser, HUD Environmental Review of Proposed Workforce Housing Projects (October 2008 to February 2011).** In the Mississippi Development Authority's HUD-funded Long Term Workforce Housing Program, organizations seeking funds for a variety of housing projects prepared environmental review documentation for the projects they proposed. Mr. Rugg was the lead adviser to the consultants preparing the environmental documentation, and was the lead reviewer of the documentation submitted. As part of the project, he and another CDM Smith employee, Rebecca Jablon, prepared a state- and county-specific annotation of HUD's environmental assessment forms. The annotation explained the documentation and analysis required in each part of the form, provided typical language, and listed links to sources of relevant information on the internet.

### Education

M.S. -  
Environmental  
Science, Rutgers  
University, 1988

J.D. - Rutgers  
School of Law-  
Newark, 1977

B.A. - Wayne  
State University,  
1974

### Registrations

Attorney at Law:  
New Jersey

**HUD Environmental Review of Housing and Infrastructure Projects in Texas (October 2009 to January 2011).** Following Hurricane Ike, Mr. Rugg wrote the first draft of the first tier environmental assessment for rehabilitation and reconstruction of single-family housing in Harris County, Texas. He provided technical review and guidance on regulatory requirements for environmental review of housing and infrastructure projects in Harris County. He assisted with preparation of public notices, agency consultation letters, and guidance for preparation of other environmental documentation. He determined which projects were "critical actions" under HUD regulations.

**HUD Environmental Review of Proposed Disaster Recovery Projects in Illinois (July 2011 to present).** Mr. Rugg prepared environmental reviews for 13 infrastructure projects proposed by Illinois municipalities under the Illinois "IKE" Disaster Recovery Program. He completed 10 environmental assessments and environmental documentation for 3 categorically excluded projects. He also prepared findings of no significant impact and requests for release of funds and certifications. He has provided thorough technical review of approximately 60 environmental reviews prepared by others, including reviews for infrastructure improvements, mixed use development, business assistance, and buyout and demolition projects.

**Task Manager, HUD Environmental Review of Proposed Demolition of Public Housing (December 2007 to July 2008).** For the Newark Housing Authority, Mr. Rugg managed preparation of environmental assessments for proposed demolition of two public housing developments. The environmental assessments included "conditions for approval" designed to minimize impacts to the adjacent neighborhoods during demolition. Because the developments proposed for demolition were among the first constructed under the Public Housing Act of 1937, their eligibility for listing in the National Register of Historic Places became an issue in the environmental assessments. After an intensive architectural assessment by a qualified historic preservation specialist, the New Jersey Historic Preservation Office concluded that the developments were not eligible for listing in the National Register.

**Task Manager, HUD Environmental Assessment for Redevelopment of Historic Factory Building (June to September 2010).** Mr. Rugg led the preparation of an environmental assessment for redevelopment of a historic factory building in Chicago, Illinois. The building is listed on the National Register of Historic Places. The proposed redevelopment involved exterior restoration and interior reconstruction for mixed commercial and residential use. In addition to historic preservation, principal issues in the environmental review were hazardous materials in the factory building and noise from an adjacent railroad and an expressway.

# Jonathan M. Enser, PMP

## Information Management – Manager

Mr. Enser is a management consultant providing leadership in program controls and systems at CDM Smith. He specializes in leading project teams to align program goals, controls' business processes, and information technology to provide overall program control system solutions. He has experience across numerous industries in the areas of business analysis, process improvement, information architecture, project management, financial/schedule controls, performance dashboards, and system implementation.

**Project Manager, Program Management Information System (PMIS), Nashville Cleanwater Overflow Abatement Program, Tennessee.** Mr. Enser is leading a team to architect and implement a program-wide controls system for a \$1.4 billion consent decree wastewater improvement program.

**Program Financial Analyst, Program Oversight, City of Austin WTP4, Texas.** Mr. Enser provides ongoing financial analysis and modeling of the Austin's water supply expansion program with a budget of \$508 million, including a CMAR contract of \$359 million.

**Lead, Program Information Architecture R&D, CDM Smith.** Mr. Enser manages an annual corporate allocation to research and develop optimal information management technologies and respective implementation techniques. This effort ensures CDM Smith is able to provide industry leading program system solutions to worldwide programs. Projects have included a Program Management Portal Framework to integrate program elements into a unified "gateway" for all program staff/stakeholders and a Performance Metric Monitoring Framework with dashboard delivery solutions.

**Project Manager, Program Grant Management System Implementation, Harris County and City of Galveston Ike CDBG Disaster Recovery Programs, Texas.** Mr. Enser led a system team to implement grant management systems to support Housing disaster recovery programs with grant allocations in excess of \$200 million.

**Implementation Manager, Program Controls and Systems, Metolong Dam Water Supply Program, Maseru, Lesotho.** Mr. Enser led the implementation of program controls operations and system for this \$300 million water supply program.

**Controls Systems Analyst, Disaster Recovery Programs, Various Locations - US Gulf Coast.** Mr. Enser performed analysis of overall program information environments, and developed solutions to optimize operational processes and analysis generation.

**Project Manager, Document Management System, Cincinnati Project Groundworks, Cincinnati, Ohio.** Mr. Enser led the design and development of a SharePoint-based document management system used in managing a capital improvement program, consisting of federally mandated \$1.9 billion Wet Weather Improvement Program (WWIP).

**Lead, Program Performance Dashboard, Metropolitan District Commission, Hartford, Connecticut.** Mr. Enser led a team to redevelop a program performance portal to provide visibility into the status of a 15 year, \$1.6 billion capital improvement program for the Hartford Metropolitan District Commission.

### Education

M.B.A - Systems and Project Management, Regis University, 2005

B.S. - Information Studies, Syracuse University, 1992

### Certifications

Certified Project Management Professional (PMP), Project Management Institute

requirements, CDBG eligibility, contractual compliance and allowability under state statute. Mr. Green participated in the negotiation and preparation of all contracts and he was responsible for reporting to upper management and testifying before legislative committees. Provided oversight to anti-fraud efforts and investigations and participated in an Anti-Fraud Task Force involving the Louisiana Attorney General's Office, the Louisiana Legislative Auditor, HUD's Office of the Inspector General, FBI, and others.

**Branch Manager, Commonwealth of Kentucky, Governor's Office for Local Development, Frankfort, Kentucky.** Duties included responsibility for all financial and programmatic information for the State's Community Development Block Grant. This involved preparation of the Program Evaluation Report, all draws from HUD, all payments to grantees and contractors, administrative cost accumulation and reimbursement, and interface with HUD's IDIS system. Served on committees to assist HUD in software and program development and assisted in the review regulations.

**Local Government Advisor Chief, Commonwealth of Kentucky, Governor's Office of Local Development, Frankfort, Kentucky.** Mr. Green acted as a program advisor to economic development applicants and projects. This included meeting with business and government leaders to discuss possible projects and the structuring of the projects, making recommendations to the loan committee, and oversight of the project after receiving grant awards. Responsible for the review and analysis of the financial information contained in the project applications. Responsible for the technical review of all audits involving communities receiving CDBG and some Appalachian Regional Commission grants. Reviewed these audits for compliance with Federal and State regulations, generally accepted accounting principles, Governmental Auditing Standards, and accuracy with agency records.

Other duties included working with the communities and audit firms in assisting them in the completion of the required audit procedures so that reports were accurate and contained all the information needed for a timely review and quick approval. Prepared the Division's Schedule of Federal Financial Assistance and maintained the supporting data files. Worked as the Division Intermediary with the State Auditor's Office in resolving any questions and/or findings they had and assisted in training their staff in the area of compliance auditing in dealing with CDBG projects.

**Assistant Director, Division of Fiscal Affairs, Commonwealth of Kentucky, Kentucky Higher Education Assistance Authority, Frankfort, Kentucky.** Mr. Green's responsibilities included supervision and maintenance of the agency's accounting system including the design, control, and implementation of accounting policy and procedures. He supervised and prepared the agency's biennial budget and the annual operating budget for the student loan corporation, and prepared analysis and projections of financial information for both internal and external use. He directly supervised six accountants, and maintained/coordinated the agency's computerized accounting system. His additional responsibilities included coordinating the purchasing and use of micro-computer systems.

# Michael Spletto

## Principal Advisor—HUD CDBG Housing

Mr. Spletto has more than 25 years of experience in the field of community development and the administration of federal grants. He has extensive knowledge and experience with CDBG, CDBG Disaster, and HOME programs, in addition to having played a key role in many of the largest disaster programs in the country. Mr. Spletto has delivered numerous training sessions related to CDBG, HOME, HUD Environmental requirements (24 CFR part 58), lead-based paint, Section 504, labor standards, HUD compliance monitoring, HQS, strategic planning, and other related housing topics. For the State of North Dakota, Mr. Spletto managed the HOME program from 1992 to 2006 which, according to HUD's "snapshots," has the number one ranked HOME program of all state participating jurisdictions. He has been in the field of Community Development since 1989.

**NJDCA Superstorm Sandy Action Plan, Procurement Documents and Environmental Review Support. Program Manager. Dates 2/2013 to present.** Mr. Spletto served as the Program Manager for tasks associated with and on-call contract with the New Jersey Department of Community Affairs (NJDCA). Mr. Spletto organized a team of over 30 CDBG experts in three days to guide the NJDCA in developing a Draft Action Plan that included a detailed needs assessment within five business days. In addition to the fast-tracked Action Plan, he also led the team in providing long-term planning; CDBG-DR program specific policies and procedure development; and Internal DCA policy and procedure development. Mr. Spletto also led the effort to create a variety of Requests for Proposals to assist the NJDCA in meeting federal guidelines and procuring contractors to implement the various programs developed in the Action Plan.

**Director of HUD Programs, CDM Smith.** As the Director of HUD Programs for CDM Smith, Mr. Spletto works with local and state governments throughout the United States. He provides lessons learned and promotes streamlined disaster recovery methods, and has made numerous presentations to national organizations and state and local governments on disaster recovery. When CDBG-DR programs are awarded to CDM Smith, Mr. Spletto assures that expert CDBG staff are available to assist in the delivery of the disaster funds. He now coordinates over 50 CDBG staff with a cumulative knowledge base of over 500 years of CDBG experience, many of whom have over 20 years of CDBG experience.

**Director, Community Development Block Grant Program, State of Illinois.** Mr. Spletto is the director of the CDBG program for the State of Illinois Disaster Program, which received over \$100 million for housing, infrastructure, economic development, and economic revitalization, and housing buy-out programs as a result of damage from Hurricane Ike. He is responsible for oversight and direction including application intake, application verification and processing for financial assistance, working with applicants, and quality control for the project.

**Director, Community Development Block Grant Program, Harris County, Texas.** Mr. Spletto is the director of the CDBG program for Harris County, which received \$142 million for the repair and replacement of damaged and destroyed housing and infrastructure following Hurricane Ike. He is responsible for oversight of grant management, including application intake, application verification and processing for financial assistance,

### Education

M.A. -  
Sociology,  
University of  
North Dakota,  
1989

B.S. -  
Psychology,  
University of  
North Dakota,  
1987

operation of Housing Assistance Centers, outreach programs for applicants, and quality control for the project.

**Prior to CDM Smith**

**Director, State of Louisiana Disaster Recovery Unit, Baton Rouge Louisiana.** Mr. Spletto assisted in the creation and delivery of the single largest disaster program in the country, which included over \$13 billion of assistance. As the director of over 100 staff, Mr. Spletto worked in coordination with FEMA, the Louisiana Governor's office of Homeland Security, LRA, HUD, State Legislatures, and Federal Legislators. The \$912 million contract disbursed nearly \$7 billion in assistance in 12 months. He also had oversight of the consulting firm that had over 2,000 employees to assist in the delivery of the housing programs. While at the Disaster Recovery Unit, Mr. Spletto was involved with assisting over 100,000 homeowners receive compensation for their losses, which included the largest buy-out program in the country with over 12,000 homes purchased with CDBG-DR funds.

**HOME Program Manager/Community Development Block Grant Administrator, State of North Dakota's Division of Community Services, Bismarck, North Dakota.** Mr. Spletto managed nearly all aspects of the HOME, CDBG and CDBG disaster programs in North Dakota for nearly 20 years. He was responsible for working with local governments, non-profits, and for-profit agencies, and acted as the State point-of-contact for strategic planning. Mr. Spletto supervised staff, monitored projects for compliance, reviewed and interpreted federal regulations, conducted public hearings, and established and maintained labor, environmental, and civil rights requirements for the program.

**Associate Planner, Roosevelt Custer Regional Planning Council, Dickinson, North Dakota.** In his role as associate planner, Mr. Spletto worked with city and county governments to develop surveys, administer CDBG projects at a local level, and write state and federal applications.

**Publications**

Spletto, M. "Growth Fundamentalism in Dying Rural Towns: Implications for Rural Development Practitioners." *Agriculture and Human Values*, Volume 8, Number 3, June 1991.

Spletto, M. "Special Report: Stress in Rural North Dakota." North Dakota Rural Life Poll Report, University of North Dakota, Grand Forks, July 1987.

Numerous presentations at local, state, regional and national meetings.



**David K. Brauner, CEM<sup>®</sup>, CFM<sup>®</sup>**  
**Principal Advisor – FEMA Compliance**

Mr. Brauner has 31 years of comprehensive emergency management experience. Having begun his career with the dawn of the Federal Emergency Management Agency, his background and experience is extensive in the fields of preparedness, response, recovery and hazard mitigation. In all, Mr Brauner was a chief architect of the current Federal Response Framework and a recognized authority in the Robert T. Stafford Disaster Relief and Emergency Assistance Act as well as the Disaster Mitigation Act of 2000. Mr. Brauner held key leadership roles in field centric disaster operations, planning, and logistics. In all, Mr. Brauner has had direct administration of and responsibility for the disbursement of \$7.4 billion in Public Assistance and Section 406 Hazard Mitigation Proposals and related grant funding. In addition, Mr. Brauner adjudicated approximately \$1.3 billion in formal first and second level Public Assistance appeal proceedings. Mr. Brauner holds formal certifications in emergency, floodplain and construction inspection management.

**Principal Advisor, NJDCA Superstorm Sandy Action Plan, Procurement Documents and Environmental Review Support.** *Project Dates 2/2013 to present.* Mr. Brauner serves the NJDCA's Trenton office as its Principal Advisor relative to the Public Assistance and Hazard Mitigation Grant Programs administered by the Federal Emergency Management Agency and their interrelationship with the Community Development Block Grant Disaster Recovery mechanisms administered by the U.S. Department of Housing and Urban Development. In this role, Mr. Brauner provides extensive consulting expertise in areas of the coordination of federal funding mechanisms, ensuring no duplication of efforts or funding exist among the federal disaster relief programs. Mr. Brauner contributed to the formulation of the formal New Jersey Action Plan. Additionally, Mr. Brauner provides subject matter expertise and programmatic liaison among the NJ DCA and NJ DEP as circumstances and situations warrant.

**Project Manager and Federal Funding Policy Specialist, City of Nashville, Tennessee**  
*Project Dates: May, 2010 to Present Reference: Mr David Tucker, 1700 Third Avenue, Nashville, TN 37208, Phone: 615-862-4782* Mr. Brauner directs the FEMA Public Assistance interests for the City of Nashville and provides direction on precipitating Federal funding grant resource documentation as they relate to the May, 2010 flooding events. His duties are comprehensive over the FEMA compliant Project Worksheets ensuring their programmatic adherence and quality control consultation and include all pertinent Federal funding resources. Mr. Brauner also leads a multi-disciplined team of engineers in efforts to formulate, design and implement cost effective hazard mitigation measures. The role also imputes the eventual management of \$300 million in United States Department of Housing and Urban Development Community Development Block Grant Disaster Recovery (CDBD-DR) funding.

**Project Manager, Preliminary Damage Assessments, Tioga County, New York.** *Project Dates September, 2011 through May, 2012. Reference: Mr. Chuck Shager, 56 Main Street, Owego, NY 13827 Phone: 607-687-8676* Mr. Brauner held the responsibility to coordinate the FEMA Public Assistance and Hazard Mitigation interests of the Tioga County Government with the New York State Emergency Management Office (SEMO) by assisting the Tioga County Government through their Preliminary Damage Assessment and the 60-day identification of projects in the aftermath of the passing of the Remnants of Tropical

**Education:**

Master of Laws – Paul M. Hebert School of Law, Louisiana State University, 1988

Juris Doctor – Paul M. Hebert School of Law, Louisiana State University, 1986

**Certifications:**

Certified Emergency Manager

Certified Floodplain Manager

Certified Construction Inspector

**Years Experience:**

With Firm: 5  
Total Years: 31

Storm Lee. Aiding the FEMA efforts, he continues to provide guidance in the formulation of FEMA compliant documentation supporting eligible and ineligible expenditures as well as providing overall FEMA Public Assistance oriented programmatic and operational consultation. Mr. Brauner also provides the orchestration for additional disaster funding sources that include those of the United States Department of Agriculture's National Resources Conservation Service (NRCS) Emergency Watershed Protection Program (EWP) and Federal Highway Administration's Emergency Response Program (FHWA-ER).

**Senior FEMA Funding and Policy Specialist, Plaquemines Parish Sheriff's Office Detention Facilities, Plaquemines Parish, Louisiana.** *Project Dates: October, 2008 through March, 2011 Reference: Mr. Fred Yorsch, 302 Main Street, Belle Chasse, LA 70037, Phone: 504-297-5120* Mr. Brauner serves as the principal federal funding coordinating officer for the construction of an 871 bed, 205,000 square foot permanent detention facility, a temporary training facility, and the relocation of the departmental weapons target range. The project involves the alignment of eligible activities related to architectural and engineering services and recurring reporting requirements to both FEMA and the State of Louisiana's Governor's Office of Homeland Security and Emergency Preparedness. The reporting interface among the federal and state governments includes the design and construction management. The projected construction cost of the permanent facilities is \$110 million. Mr. Brauner oversees the funding mechanisms on behalf of the Plaquemines Parish Sheriff's Office and includes both the FEMA Public Assistance and Hazard Mitigation programs.

**Federal Funding and Policy Specialist, City of Laredo, Texas.** *Project Dates: August, 2010 through January, 2011, Reference: Jesus Olivares, Deputy City Manager, Phone: 956-791-7309* As a result of Hurricane Alex in July, 2010, Mr. Brauner functioned in the lead role to orchestrate and coordinate the efforts of FEMA, the state of Texas through its Division of Emergency Management in order to produce rapid needs assessments and the preliminary damage forecasts. As a result of Mr. Brauner's knowledge of the FEMA Public Assistance and Hazard Mitigation Programs, his early and consistent guidance to the City of Laredo helped preserve the integrity of the prescriptive elements of the various federal and state funding sources. In all, Mr. Brauner provided the funding mechanisms to complete the estimate of damages including the formal documentation of the estimates for repair, and to aid the City in their contribution to the preparation of the FEMA Project Worksheets.

**Project Manager and Senior FEMA Policy Specialist, Hurricane Ike, Harris County, Texas.** *Project Dates September, 2008 through January, 2011* Mr. Brauner held the lead role in organizing and prioritizing the Harris County, Texas Response and Recovery operatives within hours of the passing of Hurricane Ike. CDM Smith was tasked to collect and interpret initial damage reports across all FEMA Categories of Work, with the heaviest emphasis on Categories C, E, and F, more commonly known as Roads, Buildings and Utilities, respectively. The team challenge was to empirically capture all pertinent damages to several large civil pieces of infrastructure and systematically work with FEMA to obtain complete eligibility to repair and or replace the given asset.

# Henry R. Boucher, P.E., BCEE, AICP

## NEPA Compliance/Technical Review

Mr. Boucher has over 38 years of experience as an environmental engineer and planner, with expertise in the fields of environmental and socioeconomic impact assessment, environmental permitting, planning, and engineering, transportation planning, solid waste management, land use development, and utility rate-making and financing. He has prepared environmental impact reports under CEQA, environmental impact statements under NEPA, socioeconomic impact analyses, regulatory studies, comprehensive and specific land use plans, and site analyses. In addition, he has prepared feasibility studies and facility plans for wastewater, hazardous and solid waste, and water projects. He has substantial experience participating in various types of public forums on environmental issues and has written extensively on technical subjects for non-technical audiences.

**Senior Environmental Planner, HUD NEPA Environmental Review of Proposed Housing Projects, Mississippi. (2007-2008)** Mr. Boucher was senior planner for environmental review of housing developments proposed by housing authorities on the Mississippi Gulf Coast. The environmental reviews were conducted in accordance with regulations of the U.S. Department of Housing and Urban Development (HUD) in 24 CFR parts 51, 55 and 58. Projects receiving environmental clearance became eligible for a share of HUD funds administered by the Mississippi Development Authority.

The majority of the proposed projects involved new construction and required full environmental assessments. Other proposed housing projects involve repair or purchase of existing structures and require assessment of compliance with a variety of laws, regulations, and executive orders, but not a full environmental assessment. Mr. Boucher performed noise analyses in conformance with HUD guidelines for the housing projects.

**Project Manager, FEMA Environmental and Historic Preservation Compliance for Hazard Mitigation Projects, California, Hawaii and American Samoa. (2011 to present)** For the Federal Emergency Management Agency, Mr. Boucher is project manager for environmental and historic preservation compliance documentation for thirteen hazard mitigation projects in California, Hawaii and American Samoa.

**Task Manager, FEMA Environmental and Historic Preservation Compliance for Hazard Mitigation Projects, Texas. (2013 to present)** For the Federal Emergency Management Agency, Mr. Boucher is task manager for environmental and historic preservation compliance documentation for four wildfire hazard mitigation projects in Texas.

**Deputy Project Manager, EIS for Proposed Master Plan, New Jersey. (1992-1999)** Mr. Boucher was deputy project manager for an environmental impact statement on a proposed master plan for the Hackensack Meadowlands District in New Jersey. A goal of the EIS was to develop a coordinated permitting process among the regional, state, and federal agencies with jurisdiction over the area. Among the key issues being examined are wetlands, transportation, air quality, and land use. He was project manager for development of a preliminary environmental and health impact statement for the Hackensack Meadowlands District Keegan Landfill.

### Education

M.S. - Environmental Engineering, Stanford University, 1972

Sc.B. - Materials Engineering, Brown University, 1970

### Registration

Professional Engineer: New Jersey (1985) and Delaware

Professional Planner: New Jersey (1986)

### Certifications

American Institute of Certified Planners

### Honors/Awards

Board Certified Environmental Engineer (BCEE) - American Academy of Environmental Engineers

**Deputy Project Manager, EIS for Parkway Extension, New Jersey. (2000-2003)** For Essex County, New Jersey, Mr. Boucher was deputy project manager for a joint FHWA and New Jersey Executive Order 215 Environmental Impact Statement and Section 4(f) evaluation on the proposed northerly extension of the Eisenhower Parkway in western Essex County.

**Project Manager, EIS for Highway Project, New Jersey. (2001- 2006)** Mr. Boucher was project manager for a federal EIS on the proposed New Jersey Turnpike Authority Route 92 highway project in central New Jersey. The four-lane, limited access highway would stretch 6.7 miles and would be constructed through federal wetlands, which are under the jurisdiction of the Army Corps of Engineers. A goal of the EIS is to provide an independent analysis of a set of practical alternatives to the proposed highway.

**Project Director, Comprehensive Update to EHIS, Burlington County, New Jersey. (1995-1996)** For the Burlington County Board of Chosen Freeholders, Mr. Boucher directed a comprehensive update to the Environmental Health and Impact Statement (EHIS) for the Burlington County (NJ) Resource Recovery Complex. The EHIS update was prepared in support of a solid waste facility permit renewal application for the complex.

**Senior Environmental Planner, Environmental Impact Assessment, Water Supply and Treatment Facilities, New Jersey. (1992-1997)** Mr. Boucher was senior environmental planner for the preparation of an environmental impact assessment for the New Jersey Water Supply Authority Delaware and Raritan Canal, Route 1 Conduit project and the Elizabethtown Water Company Canal Road water treatment plant. He conducted traffic and noise analyses, and was technical reviewer of both projects.

**Technical Reviewer, Hydroelectric Project, Rockaway, New Jersey. (1994-1995)** Mr. Boucher was responsible for a critical review of an application for a proposed hydroelectric project for Rockaway Township, New Jersey. The site for the \$1.2 billion facility is proposed in a sensitive watershed and sole-source aquifer area. In addition, he supervised the review of development proposals in Rockaway Township, including evaluation of wetlands delineation and effects of potential wetlands disturbance by development.

**Project Engineer, Environmental Assessments for Brick Sewer Rehabilitation Project, Newark, New Jersey. (2003-2005)** Mr. Boucher prepared Environmental Assessments for a landfill expansion for the Delaware Solid Waste Authority Southern Solid Waste Management Center and for a city-wide brick sewer rehabilitation project.

**Technical Director, EIS for Proposed Wastewater Treatment Plant Expansion, New York. (1996-1997)** For the Orange County Department of Environmental Facilities and Services, Mr. Boucher was technical director for the preparation of a New York State SEQRA Environmental Impact Statement for a proposed 2-million-gallon-per-day (mgd) expansion of a wastewater treatment plant in Harriman, New York.

**Project Manager, EIS for Water Pipeline Project, New York. (1998-2002)** Mr. Boucher was project manager for a New York State Environmental Quality Review Act (SEQRA) Environmental Impact Statement for a proposed connection to the New York City Catskill Aqueduct by the Village of Kiryas Joel. The proposed connection involves a new aqueduct connection and pumping station, a 13-mile transmission pipeline, and a new water treatment facility.

# Henry "Hank" Manning

## Principal Advisor – CDBG (Non-Housing)

Mr. Manning has more than 30 years in the field of community development including 29 years administering federal grant programs and 5 years as a city administrator. He has extensive knowledge and experience with the Community Development Block Grant (CDBG) program and CDBG disaster recovery. He played a key role in disaster recovery activities following the Midwest floods of 2008. Mr. Manning has delivered numerous training sessions related to CDBG including environmental review, procurement, green sustainability initiatives, and other related topics. For the State of Iowa, Mr. Manning also managed CDBG funds for water/sewer, disaster recovery, childcare centers and other community facilities, community wind turbines, downtown revitalization, and community sustainability.

**Public Infrastructure Program Manager, Illinois IKE Disaster Recovery Program, Springfield, Illinois.** July 2010 to Present. During his tenure the program has created operating procedures and application guidebook and conducted 4 application workshops for the disaster recovery public infrastructure program. Following award of grants his team will manage all infrastructure projects in non-entitlement communities. He developed environmental review procedures for all Illinois disaster recovery programs managed by CDM. He assisted staff from the Illinois Department of Commerce and Economic Opportunity and the Illinois Housing Development Authority in developing environmental review processes for disaster recovery housing programs.

**Community Development Block Grant Program, Harris County, Texas. February – May 2010**

Mr. Manning prepared a policies and procedures manual for the Harris County CDBG disaster recovery infrastructure program. He also consulted with project delivery staff on best practices for administering CDBG disaster recovery programs including alternate methods of environmental review for disaster recovery projects.

Community Development Block Grant Program, City of Galveston, Texas. February – May 2010 Mr. Manning assisted in program delivery for CDBG disaster recovery housing and infrastructure programs and consulted with disaster recovery program staff on best practices for CDBG disaster recovery projects.

Team Leader, State of Iowa Community Development Block Grant Program, Iowa Department of Economic Development, Des Moines, Iowa. October, 2008 – December, 2009 Mr. Manning assisted in the creation and delivery of a program including approximately \$800 million in CDBG disaster recovery funds in response to the Midwest floods of 2008. He served as agency representative to the Rebuild Iowa Office (RIO) that was established to coordinate the statewide recovery effort following the floods of 2008. He was directly responsible for distribution and oversight of almost \$130 million for infrastructure projects for disaster recovery. Mr. Manning also coordinated with representatives of Iowa Homeland Security to jointly fund hazard mitigation projects for housing buyouts and infrastructure. Mr. Manning was also responsible for administration of a portion of the regular CDBG program. Under the regular CDBG program, Mr. Manning was responsible for the distribution of up to \$20 million a year for water/sewer, community facility (child care centers, community health centers, homeless shelters, etc.), downtown revitalization, community sustainability, and emergency projects. In 1998, Mr. Manning led efforts to create the CDBG community facilities and services

### Education

M.P.A. – Drake University, 1978

B.A. – Political Science, Wartburg College, 1977

### Honors/Awards

Iowa Department of Economic Development Team Leader of the Year, 2002

Education for the Public Service Fellowship, Drake University, 1977

fund in response to need for more community childcare. Over the next 10 years, the fund invested over \$20 million in the construction and expansion of more than 70 childcare centers. In 2002, Mr. Manning led efforts to utilize CDBG funding for the erection of wind turbines by municipal utilities. In 2008, Mr. Manning led efforts to utilize CDBG funding for alternative storm water management systems that emphasized retention, filtration, and water quality. Mr. Manning was responsible for working with other state and federal agencies, local governments, regional planning commissions, and not-for-profit agencies. He supervised staff, developed agency policy, and reviewed and interpreted federal regulations.

Project Manager, State of Iowa Community Development Block Grant Program, Iowa Department of Economic Development, Des Moines, Iowa. September, 1983 - October, 2008. As project manager, Mr. Manning worked with local governments and regional planning commissions to ensure all CDBG funded projects were completed in compliance with CDBG regulations. He also reviewed applications for funding and coordinated funding decisions with other state and federal agencies. He participated in workshops providing instruction on completing applications and complying with federal regulations. He supervised the review of applications for disaster funding for infrastructure projects following the flooding of 1993 and the winter storms of 1998. While project manager he served as the environmental review officer for the CDBG and HOME programs.

City Administrator, City of West Point, Iowa. Mr. Manning supervised all city departments including an electric utility. He prepared an annual operating budget, a five-year capital improvements program and applications for state and federal grants. He led efforts to establish a not-for-profit corporation and obtain financing for a senior citizens housing complex. He managed grants received by the city.

## Dwight R. Dunk, LP.D., P.W.S. Wetlands / Endangered Species

Dr. Dunk is a senior environmental scientist with over 25 years of experience during which he grew his professional and academic practice to develop interdisciplinary solutions to environmental challenges. He applies his expertise to projects nationwide servicing federal, state and local clients. His recent academic research developed an empirical model to value natural resource damages from coastal oil spills and applied principles of regulatory economics to prove the efficacy of simplified models. Dr. Dunk's primary scientific expertise is in the field of freshwater and coastal wetland ecology including: delineation; function / value assessment; environmental impact assessment; ecological/wetland mitigation planning, design and construction oversight; plus Stage I ecological risk assessment; and feasibility and planning studies. Environmental policy/permitting experience includes preparing National Environmental Policy Act (NEPA) documents and state level equivalents as well as securing federal, state and local environmental permits.

**Lead Practitioner, Wetland Assessment and Design for Landfill Closure and Re-Use, Staten Island, New York.** Dr. Dunk was the lead practitioner for wetland services at the Brookfield Avenue Landfill Closure and Re-Use project. He conducted wetland boundary delineation and assessment, lead the freshwater wetland and salt marsh mitigation design, and developed technical design specifications and design details for on-site wetlands and salt marshes. This project included approximately 9 acres of constructed freshwater wetlands and 7 acres of constructed salt marsh. This project is in construction.

**Task Manager, Wetland Assessment and Design at Superfund Site, Sayreville, New Jersey.** For the Horseshoe Road Superfund Operable Unit 1 (OU-1) Site, Dr. Dunk directed and conducted wetland delineation and assessment and wetland and stream channel restoration design. He also prepared relevant technical design specifications and provided construction period review and inspections for approximately 1,000 linear feet of stream channel and over 2 acres of freshwater wetland. His ongoing work at OU-3 includes designing up to 7 acres of salt marsh restoration along the Raritan River.

**Task Manager, Wetland Assessment and Design at Superfund Site, Howell, New Jersey.** For the Zschiegner Refining Co. Superfund Site, Dr. Dunk directed and conducted wetland delineation and assessment and wetland and stream channel restoration design. He also prepared relevant technical design specifications and provided construction period review inspections for approximately 800 linear feet of stream channel and over 2 acres of forested wetland. CDM Smith began 5-year post-construction monitoring in 2010.

**Technical Manager, Final Wetland and Stream Mitigation Plans, King William County, Virginia.** Construction of a drinking water reservoir in King William County would have resulted in flooding 400 acres of wetlands and 21 miles of streams. CDM Smith was the design lead, supported by three other firms, to prepare final wetland and stream mitigation plans for 800 acres of wetland (2:1 mitigation ratio) and 21 miles of stream credits. Dr. Dunk was the design lead for CDM Smith responsible for developing and implementing project strategy to meet project schedule, production and quality control of CDM Smith work as well as coordinating with team members on quality, schedule and budget. This project involved assessing over 50 potential sites, conducting site

### Education

LP.D. - Law & Policy,  
Northeastern  
University, 2012

M.S. - Biology/Applied  
Marine Ecology,  
University of  
Massachusetts/Boston  
1996

B.S. - Biology/Ecology,  
University of  
Massachusetts/  
Boston, 1987

### Registrations

Professional Wetland  
Scientist: Society of  
Wetland Scientists

Certified Wetland  
Scientist: State of New  
Hampshire

Certified Ecologist:  
Ecological Society of  
America

### Certifications

40-Hour OSHA



assessments, and preparing conceptual plans for stream and wetland mitigation for agency approval. The team also solicited mitigation credits from wetland and stream mitigation banks in the York River watershed, assessed anadromous fish passage blockages and planned to remove one dam to provide anadromous fish passage to over 40 miles of river habitat. The design team negotiated with the federal and state resource to successfully secure stream credits for the dam removal to reduced the miles of streams which would require active mitigation work. This project concluded at the preliminary design stage.

**Task Manager, Environmental Permitting for Landfill and Brownfield**

**Redevelopment Project, Boston, Massachusetts.** For the Lower Neponset River Master Plan and Pope John Paul II Park in Boston, Dr. Dunk contributed to the master plan for the Metropolitan District Commission (MDC)-owned lands along the Lower Neponset River and provided design and permitting services for the proposed Pope John Paul II Park at the former Neponset Drive-In (hazardous waste site) and Hallet Street Landfill (unlined landfill). For the master plan, he delineated wetland resources along the river and prepared the permitting analysis. For the park project, Dr. Dunk delineated the resource area; directed the preparation of environmental permits and MEPA submittals; met with federal, state and local resource agency staff in pre-application meetings to expedite issuance of permits/approvals; and prepared contract specifications for approximately 2 acres of salt marsh restoration.

**Lead Practitioner, Machado Lake Ecosystem Rehabilitation and Wilmington Drain**

**Multi-Use Project, City of Los Angeles, California.** Dr. Dunk serves as a lead practitioner regarding wildlife, habitat, permitting, and constructed treatment wetland project components. The goal of the Machado Lake and Wilmington Drain Ecosystem Rehabilitation project is to improve the water quality conditions and related park facilities, enhance wetland function and values, enhance habitat for target RTE species, re-introduce recreational fishing, and to meet Total Maximum Daily Load requirements and other water quality targets. To meet project goals, the design integrates ecological and engineering solutions, watershed-based management approaches, in-lake restoration, riparian enhancements, guidance from resource agencies to enhance target species habitat, and application of storm water best management practices.

**Professional Activities**

- Member, Society of Wetland Scientists
- Member, Association of State Wetland Managers
- Member, Ecological Society of America

**Selected Presentations**

- Dunk, D., J. O'Brien, and J. Kissida. "Salt Marsh Restoration as a Critical Element to the Pope John Paul II Park - A Brownfield Project in the Neponset River Estuary, Boston, Massachusetts." Paper presented at the Society of Wetland Scientists 26th Annual Meeting, Charleston, South Carolina, June 5-10, 2005.
- Dunk, D., D. Krause, and J. Mihm. "Effective Integration of Site Remediation and Wetlands Restoration at the Alcoa Massena New York Site." Paper presented at the New York State Wetland Forum - 2005 Annual Conference and Meeting. Glens Falls, New York, April 6-7, 2005.

# Rebecca S. Jablon, AICP, LEED AP<sup>®</sup>

## Task Order Manager

Ms. Jablon is a city and regional planner with experience on an array of projects involving sustainability and environmental planning. She has a background in performing environmental review conforming to the requirements set forth by the National Environmental Policy Act (NEPA) for a variety of disaster recovery projects.

### **Environmental Advisor, CDBG Disaster Recovery Program, New Jersey; March, 2013**

- **Present.** Ms. Jablon aided the New Jersey Department of Environmental Protection (NJDEP) as they began the environmental effort to assist the State of New Jersey in Superstorm Sandy recovery efforts. Ms. Jablon helped determine the general level of environmental review required for various program activities, and drafted the certificates of exemption and categorical exclusion documentation (not subject to 24 CFR 58.5) for applicable activities. She aided in the development of the environmental review forms, and the finding of no significant impact and request for release of funds.

### **Task Manager, CDBG Disaster Recovery Program, Minot, North Dakota; June, 2012 –**

**Present.** Ms. Jablon is part of the Community Development Block Grant Disaster Recovery (CDBG-DR) Program project team, leading the environmental effort to assist the City of Minot in roadway and utility infrastructure redevelopment and enhancements, as well as approximately 250 households whose homes have been damaged or destroyed by a June 2011 severe flooding event. Ms. Jablon supervises a team of environmental scientists and planners and oversees the completion of the Environmental Review Records (ERRs) per the U.S. Department of Housing and Urban Development (HUD) NEPA requirements.

### **Task Manager, CDBG Disaster Recovery Program, Ward County, North Dakota;**

**October, 2012 – Present.** Ms. Jablon is part of the CDBG-DR Program project team, leading the environmental effort to assist Ward County in the removal of all existing structures from acquired properties by way of a variety of means, including demolition, salvage or auction (whereby the winning bidder would relocate the structures). The project provides an urgent need by allowing the County to have better access to, and expand upon, existing flood control options and allow property owners the opportunity to move to safe and livable housing. Ms. Jablon oversees the completion of the ERRs per the HUD NEPA requirements.

### **Task Manager, CDBG Homeowner Disaster Recovery Program, Harris County, Texas;**

**July, 2009 – June, 2013.** Ms. Jablon was part of the Harris County CDBG-DR Program project team, assisting more than 600 households whose homes were damaged or destroyed by Hurricane Ike. Ms. Jablon supervised a team of environmental scientists and planners as they developed ERRs for each eligible site and she reviewed each ERR for accuracy and quality. She developed an annotated template to serve as a go-by for the environmental documentation required under NEPA, as administered by HUD. In addition, Ms. Jablon served as the client's environmental point of contact.

### **Task Leader, CDBG Disaster Recovery Program, Galveston, Texas; November, 2009 –**

**February, 2012.** Ms. Jablon was part of the CDBG-DR Program, assisting approximately 1,000 individual homeowners and property owners of small rental properties (1-4 units) throughout the city whose homes and rental units were damaged by Hurricane Ike. Ms.

### **Education**

M.C.R.P. – City and Regional Planning, Georgia Institute of Technology, 2006

B.A. – Urban Studies, University of Pennsylvania, 2001

### **Certifications**

AICP, American Institute of Certified Planners

LEED AP, Leadership in Energy and Environmental Design Accredited Professional

Jablon developed an annotated template to serve as a go-by for the environmental documentation required under NEPA, as administered by HUD. She served as part of the team leading the ERR effort, helping guide a team of environmental scientists and planners as they develop ERRs for each eligible site, and reviewing each ERR for accuracy and quality.

**Task Leader, HUD Environmental Review of Proposed Long Term Workforce Housing Projects, Mississippi; August, 2008 – November, 2009.** Ms. Jablon provided regulatory guidance and support to organizations proposing projects under the Mississippi Development Authority's (MDA) Long Term Workforce Housing Program. The Program was administered by the MDA on behalf of HUD using funds aimed at stimulating recovery from Hurricane Katrina. Ms. Jablon determined the level of environmental review required, provided assistance in preparing required environmental documents, reviewed the documents and provided guidance to ensure full compliance with HUD regulations.

**Project Planner, Gulf Coast Regional Infrastructure Program, Mississippi; August, 2007 – December, 2008.** Ms. Jablon was a member of the project team for the MDA's Gulf Coast Regional Infrastructure Program. The NEPA documentation process was compressed and occurred simultaneously with conceptual design and property acquisition in order to speed the infrastructure recovery along the Mississippi Gulf Coast, as per the Governor's mandate. Ms. Jablon oversaw the completion of several ERRs, and worked with the team to complete a series of environmental assessment reports for various combinations of new water or wastewater treatment facilities, pump stations, and distribution or collection areas.

**Project Planner, CDBG Disaster Recovery Public Housing Program, Mississippi; February, 2007 – November, 2009.** Ms. Jablon was a member of the project team conducting on-site inspections of potential relocation and reconstruction public housing sites along the Mississippi Gulf Coast in order to ascertain their environmental feasibility. She prepared Environmental Assessments on behalf of the CDBG-DR Division of the Mississippi Development Authority.

**Project Planner, Housing Plan, Southern Plaquemines Parish, Louisiana; March, 2009 – September 2009.** Ms. Jablon, as part of the project team that developed a housing recovery plan for Southern Plaquemines Parish, Louisiana, evaluated pre- and post-Hurricane Katrina infrastructure and socioeconomic data. The plan's aim was to guide the parish in stimulating reconstruction of its housing stock in a sustainable fashion.

## Professional Activities

Secretary, City of Alexandria, Virginia's Environmental Policy Commission

Member, American Planning Association

## Patrick W. Dunn, CFM Task Order Manager

Mr. Dunn specializes in performing U.S. Department of Housing and Urban Development (HUD) environmental reviews to comply with the National Environmental Policy Act (NEPA) as set forth in 24 CFR Part 58. His project experience includes disaster recovery projects and the City of Chicago's Community Development Block Grant (CDBG) programs. Mr. Dunn is also knowledgeable in geographic information system (GIS) technology. His skill set includes using the ArcGIS software package to support data conversion, map production, and data analysis.

**Environmental Review Officer, Illinois Disaster Recovery Program, Springfield, Illinois.** Mr. Dunn is the environmental review officer for the project team providing program management for the Illinois Department of Commerce and Economic Opportunity's CDBG disaster recovery funds. In his role, Mr. Dunn is responsible for the design and implementation of the environmental review process for the disaster recovery projects administered by CDM Smith to ensure compliance with HUD's environmental regulations under NEPA. He determines the level of environmental review for each project, manages the environmental review process, and provides technical assistance and oversight for compiling an environmental review record (ERR) leading to the issuance of environmental clearance. Projects in the program support housing rehabilitation, property buyout, community stabilization, economic development, business assistance, and public infrastructure. Mr. Dunn has completed or overseen completion of more than 1,150 environmental reviews, which included exempt projects, categorically excluded projects, and environmental assessments. In the program, there were 15 tiered environmental reviews.

**Task Manager, NEPA Environmental Review, Chicago, Illinois.** Mr. Dunn is responsible for managing a project team performing environmental reviews in accordance with HUD NEPA regulations for eight housing programs for the City of Chicago. He is responsible for coordinating all project tasks involved with compiling an ERR. Tasks generally involve assessing floodplains, wetlands, historic sites, noise sources, and City of Chicago department records among others. Site visits are also performed for several of the programs. Mr. Dunn has completed or overseen completion of more than 5,600 site specific environmental reviews. One environmental assessment was completed for a mixed-use redevelopment project.

**GIS Specialist, Harris County and City of Galveston Disaster Recovery Programs, Harris County and City of Galveston, Texas.** In the aftermath of Hurricane Ike in 2008, CDM Smith managed the CDBG disaster recovery programs for Harris County and the City of Galveston that repaired and replaced damaged and destroyed housing and infrastructure. Mr. Dunn assisted in the preparation of various environmental maps for both housing and non-housing projects as part of compiling an ERR for each project. He was also involved with performing initial environmental analysis utilizing GIS to determine whether projects would require additional review and coordination.

**GIS Specialist, Flood Hazard Map Modernization Program, Federal Emergency Management Agency (FEMA).** Mr. Dunn was involved with various tasks in FEMA's map

### Education

B.S. - Environmental  
Geography, Ohio  
University, 2004

### Certifications

Certified Floodplain  
Manager, 2010

modernization program for Region V leading to the issuance of a GIS-based digital flood insurance rate map (DFIRM). His responsibilities included populating complex spatial databases in accordance with FEMA's Guidelines and Specifications for Flood Hazard Mapping Partners, developing topographic and basemap data, digitizing and attributing flood hazard features, performing redelineation using new digital terrain data, updating flood profiles with the use of Rasplot, and utilizing DFIRM tools on the Mapping Information Platform (MIP) for DFIRM production.

**Task Manager, Data Conversion for Water Distribution System GIS, Springfield, Massachusetts.** In his role as task manager, Mr. Dunn trained and managed a team to complete a second round of edits for the data conversion effort for the water distribution system GIS for the Springfield Water and Sewer Commission. As task manager, he communicated progress to both the project manager and the client. He maintained a weekly earned value report that tracked budget expenditures versus project completion and managed burn-rate estimates. Mr. Dunn was also tasked with the performing the QAQC of the final deliverable to the client.

**GIS Technician, Data Conversion for Water Distribution System GIS, Springfield, Massachusetts.** For the Springfield Water and Sewer Commission, Mr. Dunn assisted with the data conversion effort for a water distribution system GIS. In this role, he performed document scrubbing and digitization/attribution of water system features in an ESRI ArcSDE environment.

**GIS Technician, Data Conversion for Water Distribution System GIS, Montgomery County, Ohio.** For the Montgomery County Sanitary Engineering Department, Mr. Dunn assisted with the data conversion effort for a large-scale water distribution system GIS. In this role, he performed document scrubbing and raster image geo-referencing to support multiple team members at the project site.

#### Professional Activities

Member, American Planning Association, Illinois Chapter

Member, Illinois Association for Floodplain and Stormwater Management

## Kelly A. Simmons Task Order Manager

Ms. Simmons is an environmental scientist with 17 years of combined professional experience that is based upon a biology/marine biology background and includes knowledge of marine biology, ecology and microbiology research. Ms. Simmons is experienced in the preparation of Environmental Record Reviews (ERRs) as part of the NEPA process for federal agencies such as Housing and Urban Development (HUD and Environmental Impacts Statements (EIS) for clients such as the Federal Aviation Agency (FAA) and U.S. Army Corps of Engineers (USACE). She is also experienced in the preparation of state and city level NEPA equivalents such as New York State Environmental Quality Review (NYSEQR) and Massachusetts Environmental Policy Act (MEPA) documents and New York City Environmental Quality Review documents (NYCEQR). She has also participated in the preparation of Project Worksheets for FEMA as for the Public Assistance portion of the Nassau County New York Hurricane Sandy Disaster Recovery program.

Ms. Simmons is experienced in the analysis of federal laws, regulations, statutes and executive orders, such as EO 11988 Floodplain Management, as they pertain to environmental review. She is also experienced in wetland identification and delineation, data analysis for industrial sites, securing New York City permits and zoning approvals as well as ensuring compliance with applicable sedimentation and erosion control measures and preparing permits for Large Construction Projects (greater than 5 acres), Notice's Of Intent (NOI) to conduct projects under this type of permit and Stormwater Pollution Prevention Plans (SWPPP). She is also familiar with the requirements of the Federal Energy Regulatory Commission (FERC) with regard to obtaining environmental clearance for the expansion and/or upgrade of hydropower facilities as well as New York State soil and groundwater regulatory standards.

### **2011 Project Scientist, Illinois "IKE" Disaster Recovery Program, Springfield, Illinois.**

Ms. Simmons prepared the prepared the Environmental Record Reviews (ERRs), flood plain notices and combined Finding of No Significant Impact (FONSI) and Request for Release of Funds (RROF) forms necessary to show the state that projects proposed under the Public Infrastructure, Property Buy-out and Economic Development-Business Stimulus and Community Stimulus Programs would not significantly impact the human environment to assist municipalities throughout the state of Illinois recover from flooding that preceded Hurricane Ike in 2008. As part of this process, Ms. Simmons directly collaborated with grant managers, municipal applicants, an Illinois-based environmental sub consultant and interested state agencies, such as the Illinois Historic Preservation Agency, to obtain the information and approvals needed to complete the ERRs and provide the information needed for the state to release the recovery funds to the municipalities.

### **2010 Task Manager, Texas Housing Disaster Recovery, Harris County and Galveston, Texas.**

Ms. Simmons prepared the combined Finding of No Significant Impact (FONSI) and Request for Release of Funds (RROF) form necessary to show the state the proposed project would not significantly impact the human environment and release the funds needed for rehabilitation/reconstruction of homes located in southeast Texas. Ms. Simmons provided input as to the inclusion of database content and assisted with creating the

### **Education**

M.S. – Marine Biology,  
University of  
Massachusetts  
Dartmouth, 2003

B.S. – Biology,  
University of  
Massachusetts  
Dartmouth, 1993

### **Certifications**

U.S. Army Corps  
Wetland Delineation  
Certification– Rutgers  
University

Classes: Vegetation  
Identification for  
Wetland Delineation,  
Hydric Soils and  
Wetland Delineation

language for use in the Environmental Record Reviews (ERRs) templates that were created to allow the county and the state to simultaneously review the environmental compliance documents for 2700 residential sites. She was responsible for the quality assurance/quality control review of each ERR that was prepared by team members as well as for preparing ERRs. Subsequently she was also responsible for assisting with updating the information database to track the progress of ERR preparation and approval by the clients and the State of Texas. She was also responsible for ensuring that the regulations set forth in 24 CFR 55.20, i.e. the 8 Step process, were appropriately applied to each site by assisting with the development of early and final floodplain notice templates that contained language required by 55.20.

**2009 Environmental Policy Analyst, Mississippi Long-term Workforce Housing, Mississippi.** Ms. Simmons was part of the project team that was responsible for the review of environmental compliance documentation prepared by CDBG Block Grant sub-recipients to ensure that each project qualified for funding by following the HUD environmental requirements. The project included the rehabilitation and/or reconstruction of over 700 homes throughout coastal Mississippi.

**2010- 2012 Project Scientist, Infrastructure Disaster Recovery, Harris County, Texas.** Ms. Simmons assisted with the tiered environmental review and preparation of environmental compliance documentation of several proposed infrastructure projects, such as a new fire station and street drainage improvements, which would assist with long term recovery and reversal of the negative economic impact caused by Hurricanes Dolly and Ike.

**2008 Project Scientist, Gulf Region Water and Wastewater Plan (GRWWP), Hancock and Stone County, Mississippi.** Ms. Simmons prepared the 8 Step wetland decision making process documents, early and late floodplain notices, Finding of No Significant Impact (FONSI) and Request for Release of Funds according to NEPA EA/HUD guidelines for 10 of the projects identified in the GRWWP. Ms. Simmons also assisted with writing the Wetland and Floodplain portions of the EA and with compiling the Environmental Record Review (ERR) for each of the ten projects.

**2009 Project Scientist, Wetland Limit Determination, Mississippi Public Housing, Woolmarket, Mississippi.** Utilizing hand-held GPS units and aerial imagery, Ms. Simmons assisted with determining the western most wetland boundary within a parcel of vacant land located north of Biloxi Mississippi. The parcel was recently purchased by the Mississippi Housing Authority and was being considered as a possible site for the development of affordable housing to assist the area with recovery from Hurricane Katrina. Ms. Simmons also assisted with incorporating the GPS information into GIS to create figures and a summary report for use by the Mississippi Housing Authority.



# George C. Molnar

## Wetlands/Endangered Species

Mr. Molnar is an environmental scientist with over 18 years experience conducting field investigations including ecological risk assessments, biological assessments and extent of contamination studies at hazardous waste sites nationwide. He has provided technical support for geological, engineering, and air monitoring site investigations; prepared and reviewed work plans, quality assurance project plans, technical memorandums, final reports, and other deliverables to multiple federal, state and industrial clients; supervised field and laboratory crews; and mentored junior staff. He is experienced in multi-matrix sampling techniques (e.g., groundwater, surface water, sediment pore water, soil, and sediment) as well as sample management and handling protocol. In addition, he is experienced in amphibian, fish, benthic macroinvertebrate, and small mammal sampling and survey techniques; and is familiar with laboratory and in-situ toxicity studies, vertebrate necropsy, and taxonomic identification of biota.

**Field Task Leader, United States Environmental Protection Agency (USEPA) Oversight, Passaic River, New Jersey (1999 to Present).** A large-scale remedial investigation/feasibility study (RI/FS) is currently being conducted by potential responsible parties (PRPs) on the Lower Passaic River (LPR). On behalf of the USEPA and the United States Army Corps of Engineers (USACE), Mr. Molnar is tasked with coordinating/managing oversight of all PRP related sampling which includes a large-scale sediment sampling effort including samples for use in bioaccumulation and toxicological studies, benthic community analysis, and chemistry. Other activities include oversight of biota and surface water sampling, and technical review of PRP documents.

**Ecological Risk Assessor, Screening Level Ecological Risk Assessment, Old Bridge/Sayreville, New Jersey (2012).** For the USACE, at the Raritan Bay Slag site, Mr. Molnar conducted a screening level ecological risk assessment (SLERA) to evaluate the potential for risk to both aquatic and terrestrial receptors within the area of a jetty and seawall constructed of blast furnace kettle bottoms contaminated with heavy metals. Areas evaluated in the SLERA included beach, intertidal, marsh, and upland habitats.

**Field Team Leader, Extent of Contamination Study, Kearny, New Jersey (2010).** At the Syncon Resin site, for the USACE, Mr. Molnar coordinated and participated in field efforts in support of an extent of contamination study focusing on subsurface soils.

**Project Scientist, Wetland Delineation, Florence Township, New Jersey (2010).** For the USACE, Mr. Molnar conducted a wetland delineation within areas of proposed dredging activities in support of remedial actions at the Roebing Steel Company Superfund site.

**Project Scientist, Wetland Monitoring Program, Howell Township, New Jersey (2010 to Present).** For the USACE, Mr. Molnar assisted with the development of a long term wetland monitoring program in support of wetland restoration activities performed at Zschiegner Refining Company site.

**Ecological Risk Assessor, Screening Level Ecological Risk Assessment, Hopewell Junction, New York (2008).** At the Hopewell Precision site, under contract to the USEPA Region 2, Mr. Molnar conducted a SLERA which investigated potential ecological risks

### Education

M.S. -  
Environmental  
Science, Rutgers,  
The State  
University of New  
Jersey, 2006

B.S. -  
Environmental  
Studies, The  
Richard Stockton  
College of New  
Jersey, 1997

### Certifications

OSHA 40-hour  
Health and Safety  
Training, 29 CFR  
1910.120 (e)(3)  
(plus annual 8 hour  
refresher)

OSHA Site Health &  
Safety Coordinator  
Training, 29 CFR  
1910.120 (e)(4)

CPR and First Aid  
Certified

### Training

Response  
Readiness  
Training: Anthrax  
Response  
Workshop. U.S.  
EPA, 2001

Wetland  
Delineation:

Rutgers Office of  
Continuing  
Professional  
Education, 2003

associated with VOC contaminated groundwater discharging to several surface water bodies.

**Ecological Risk Assessor, Screening Level Ecological Risk Assessment, Lansdale, Pennsylvania (2011).** At the North Penn Area 7 site, under contract to EPA Region 3, Mr. Molnar conducted a SLERA to evaluate potential risks to aquatic receptors present /utilizing onsite surface water bodies. Efforts included a comparison of sediment and surface water data to ecological screening values and food chain exposure models of representative receptors.

**Project Scientist, Ecological Site Characterization, Lansdale, Pennsylvania (2007).** Mr. Molnar conducted an ecological characterization of the North Penn Area 7 site in Lansdale, Pennsylvania. Efforts included the identification of habitats and biota in areas potentially impacted by contaminated groundwater discharging to onsite surface water bodies.

**Project Scientist, *In-situ* Bioremediation Pilot Study, Vineland, New Jersey (2007).** Mr. Molnar assisted with the mobilization and implementation of an *in-situ* bioremediation pilot study at the Iceland Coin Laundry site. Activities included 24 hour groundwater monitoring and injection of amendment media.

**Project Scientist, Emergency Response Support (2005).** For the USEPA Region 6, Mr. Molnar assisted in various support activities associated with the Hurricane Katrina response including hazardous material searches with the U.S. Army and National Guard.

**Field Team Leader, Waste Characterization Investigation, Sayreville, New Jersey (2007).** For the USACE, Mr. Molnar coordinated and participated in field efforts in support of a waste characterization investigation at the Horseshoe Road site. Field efforts included the collection of surface and subsurface soils samples from areas associated with former industries utilizing the site.

**Project Scientist, Ecological Site Characterization, Garden City, New York (2006).** Mr. Molnar conducted an ecological characterization at the Old Roosevelt Field site in Garden City. Efforts included the identification of on-site habitats and biota within areas associated with the remedial investigation study.

**Senior Team Member, Groundwater Well Installation, Rye, New York (2004).** At the Port Refining site, for the USEPA/ERT, Mr. Molnar provided technical assistance in the installation of groundwater wells using a GeoProbe, and subsequent groundwater sampling within residential properties adjacent to a defunct mercury refining company.

**Senior Team Member, Emergency Air Monitoring Support New York, New York (2001).** For the World Trade Center emergency response, for the USEPA/ERT, Mr. Molnar provided emergency air monitoring support during initial recovery operations both at "ground zero" and in the areas surrounding the former World Trade Center.

**Team Member, Ecological Risk Assessment Support, West Winfield, New York (1996).** At the Hiteman Leather site in West Winfield, under the USEPA/ERT REAC, Mr. Molnar provided office and laboratory support on a broadscale investigation involving multi-disciplinary tasks in a chromium contaminated wetland associated with a historic tannery. He was responsible for the collection of sediment, soil, water, groundwater, fish, crayfish, and small mammals.

# Matthew E. Petty

## Wetlands/Endangered Species

Mr. Petty has 6 years of experience in the ecology and environmental science fields in both public and private sectors. He specializes in NEPA compliance, permitting, stream and lake assessment, threatened and endangered species surveys, wildlife habitat assessments, biological/sediment sampling, ecological restoration, and data analysis. He is a project scientist actively involved in the environmental impact of several projects including wastewater treatment plants, sewer transmission lines, water diversions, levee expansions, and disaster recovery projects. He has also been involved with warmwater fishery design, ecological risk assessment, Section 106 historical compliance, constructed wetland design, and wetland delineation. His previous work experience includes stream and lake profiling, GIS analysis, toxicological analysis, and water quality sampling.

**Project Scientist, FEMA Wildfire Hazard Mitigation Grant Program (HMGP) Environmental Assessments, Various Municipalities, Texas.** Mr. Petty's work includes analyzing wildfire hazardous fuel reduction activities, coordinating field environmental surveys, identifying federal and state biological resources of concern, and preparing the floodplains, wetlands, and biological resources sections of site-specific EAs required under NEPA, as administered by FEMA. **March 2013 to Present.**

**Project Scientist, FEMA Region IV Wildfire HMTAP Application Reviews, Various Municipalities, Texas.** Mr. Petty's work includes conducting wildfire mitigation programmatic first reviews, conducting BCA first reviews, conducting engineering first reviews, completing FEMA Technical QA/QC Review Form, assuring application compliance with Hazard Mitigation Assistance Unified Guidance, and identifying missing application information for FEMA RFIs. **October 2012 to January 2013.**

**Project Scientist, Harris County Hurricane Ike Housing Management Project, Houston, Texas.** Mr. Petty's responsibilities include environmental regulatory review, composing site-specific environmental assessments, desktop wetland delineation, site re-evaluations, report QA/QC, USACE and SHPO coordination, and regulatory compliance. **October 2010 to October 2012.**

**Project Scientist, Galveston Hurricane Ike Housing Recovery Project, Galveston, Texas.** Mr. Petty's work includes environmental regulatory review, composing site-specific environmental assessments, desktop wetland delineation, historical and cultural compliance, report QA/QC, USACE and SHPO coordination, and regulatory compliance. **September 2010 to January 2012.**

**Task Leader, West Virginia Route 2 Re-alignment Environmental Assessment, Proctor, West Virginia.** Mr. Petty's work includes task management, field stream assessment, wetland delineation, calculating wetland values, functions, and mitigation according to the West Virginia Stream and Wetland Valuation Metric (SWVM); wildlife surveys, GIS site mapping, and preparation of stream and wetlands and wildlife reports. **Services performed September 2012 to February 2013.**

**Task Leader, Eufaula Lake Shoreline Management Plan and Master Plan Update Environmental Impact Statement, Eufaula, Oklahoma.** Mr. Petty's work includes VRAP

### Education

B.A. - Zoology,  
Miami  
University, 2007

B.A. -  
Environmental  
Science, Miami  
University, 2007

M.S. -  
Environmental  
Studies, Virginia  
Commonwealth  
University, 2012

### Certifications

OSHA 40-hour  
HAZWOPER

Wetland  
Delineation and  
Jurisdictional  
Determination  
Certification -  
North Carolina  
State University

Wetland Plant  
Identification  
Certification -  
The Swamp  
School, LLC

Virginia Soil  
Science Training  
- Virginia Tech  
University

### Years of Experience

CDM Smith: 5  
Total: 6

visual assessment, development of a lake shoreline habitat assessment methodology, field shoreline habitat assessment, natural resources field transects, vegetation surveys, threatened and endangered species assessment, USFWS Section 7 coordination, water quality sampling, coordinating endangered American burying beetle surveys, task management, and writing the natural resources and habitat sections of the EIS. **Services performed December 2011 to January 2013.**

**Project Scientist, USEPA Warm Springs Creek Remediation - Endangered Bull Trout Biological Assessment, Anaconda, Montana.** Mr. Petty's work includes establishing baseline conditions for the project area, assessing existing aquatic habitat, analyzing proposed project impacts on bull trout, conducting a USFWS crosswalk analysis between the Bull Trout Matrix of Pathways and Indicators and Primary Constituent Elements of Proposed Critical Habitat, evaluating proposed stream remediation techniques, analyzing proposed project impacts on eagles, migratory birds, and other species of interest likely present within the project area, and facilitating USEPA and USFWS coordination **November 2012 to Present.**

**Project Scientist, Henrico 80 MGD Water Treatment Facility Upgrade and Improvements, Henrico, Virginia.** Mr. Petty's work includes Section 106 historical and cultural compliance, site soil analysis, GIS mapping and support, threatened and endangered species assessment, wetland delineation, Section 404 permitting (Joint Permit Application) and regulatory compliance. **January 2011 to June 2011.**

**Project Scientist, G. Robert House Water Treatment Plant Sewer Force Main Project, Suffolk, Virginia.** Mr. Petty's work includes preliminary environmental regulatory review, routing study and analysis, existing utility analysis, Section 106 historical and cultural compliance, site soil analysis, GIS mapping and support, threatened and endangered species assessment, wetland delineation, and regulatory compliance. **June 2010 to December 2011.**

**Project Scientist, Holmes Run Stream Stabilization, Fairfax, Virginia.** Mr. Petty's work includes Section 106 historical and cultural compliance, site soil analysis, GIS mapping and support, threatened and endangered species assessment, bank stabilization design, Section 404 permitting (Joint Permit Application) and regulatory compliance. **August 2010 to February 2011.**

**Project Scientist, LCA Small Diversion at Convent/Blind River EIS, St. James Parish, Louisiana.** Mr. Petty's work includes wildlife/habitat surveys, forest structure and complexity data collection, wetlands value assessment, writing of the biological assessment (BA) and biological sections of the EIS, VRAP aesthetics assessment, data analysis, GIS site mapping, report editing and review, and agency coordination. **February 2009 to November 2009.**

**Project Scientist, MSEG Water/Wastewater NEPA Team, Wiggins and Kiln, Mississippi.** Mr. Petty's work includes NEPA compliance; site mapping with GIS; performing on-site wetland delineations; threatened and endangered species field surveys; obtaining soils data; writing wetland and soil portions of the environmental assessments; and agency correspondence. **February 2008 to December 2008.**

## George J. Carbo, AICP Task Order Manager

Mr. Carbo has more than 20 years experience in planning and zoning projects in multiple states. He has been responsible for preparing planning studies, compiling environmental assessments, reviewing and writing ordinances, drafting proposals with developers, code enforcement, informing media and citizens of developments and upcoming projects, GIS mapping, and creating phased plans for development and redevelopment projects.

**Task Manager/Environmental Planner, Coastal Communities Recovery Program Environmental Record Review, Coastal Protection and Restoration Authority, Louisiana.** (2011-2013) Mr. Carbo prepared multiple environmental reports on behalf of the State of Louisiana for a variety of coastal restoration project. Environmental reviews included environmental assessments and HUD categorical exclusions. Documentation included NEPA compliance and the eight step decision making process for projects within the floodplain and wetlands.

**Environmental Planner, CDBG Disaster Recovery Program, Minot, North Dakota.** (2012) The City of Minot received disaster recovery funds after a great flood. Mr. Carbo wrote two Broad Review Environmental Assessments utilizing a tiered review process for multiple sites. The projects included acquisition of flooded properties and housing rehabilitation and reconstruction. The broad review documents demonstrated NEPA and HUD environmental compliance, including the strategy for individual site compliance documentation.

**Environmental Planner, Illinois "Ike" Disaster Recovery Program, Illinois.** (2011-2012) Mr. Carbo was part of the project team performing NEPA environmental assessments for the public infrastructure and community stabilization programs.

**Task Manager, CDBG Disaster Recovery Program, Galveston, Texas.** (2010) Mr. Carbo was part of the CDBG Disaster Recovery Program, assisting approximately 1,200 individual homeowners and property owners of small rental properties (1-4 units) throughout the city whose homes and rental units were damaged by Hurricane Ike. Mr. Carbo managed the development of a Broad Review (tiered) Environmental Assessment and site-specific reviews required under NEPA as administered by HUD. He managed a team of environmental scientists and planners as they prepared documentation for each eligible site, including SHPO clearance for historic structures. Mr. Carbo met regularly with the client and coordinated environmental clearance with the Texas Department of Housing and Community Affairs.

**Task Manager, CDBG Homeowner Disaster Recovery Program, Harris County, Texas.** (2010) Mr. Carbo was part of the Harris County Community Development Block Grant (CDBG) Disaster Recovery Program, assisting approximately 500 households whose homes have been damaged or destroyed by Hurricane Ike. He coordinated the development of a Broad Review (tiered) Environmental Assessment and site-specific reviews. He managed a team of environmental scientists and planners as they prepared documentation for each eligible site. Mr. Carbo met regularly with the client and coordinated environmental clearance with the Texas Department of Housing and Community Affairs.

### Education

M.U.R.P. – Urban and Regional Planning,  
University of New Orleans, 1992

B.S. – Economics,  
University of New Orleans, 1989

### Certifications

American Institute of Certified Planners,  
1997

**Task Manager/Environmental Planner, Mississippi Long-term Workforce Housing Program, Mississippi.** (2008-2010) Mr. Carbo coordinated the preparation of environmental reports with CDBG sub-recipients on behalf of the state of Mississippi. Projects included HUD NEPA compliance of environmental assessments and categorical exclusions. He reviewed documentation for completeness and verified that proper documentation was included in environmental review records in preparation for HUD audits.

**Task Manager/Environmental Planner, MsDEQ Gulf Region Water and Wastewater Plan, Stone County, Mississippi.** (2008) Mr. Carbo oversaw the preparation of two environmental review records for two new sewer treatment facilities in Stone County. He completed the environmental assessments, including working with the design engineers to alter the project to avoid impacting endangered species. Both projects required the completion of the eight-step decision-making process for development within the 100-year floodplain.

**Environmental Planner, MsDEQ Gulf Region Water and Wastewater Plan, Hancock County and Pearl River County, Mississippi.** (2007-2008) Mr. Carbo was part of the project team performing NEPA environmental assessments in Hancock and Pearl River Counties. He performed field investigations, coordinated agency comments, and wrote sections of the EA to document project impacts.

**Deputy Project Manager/Senior Planner, Global Hazard Mitigation Program, Mississippi.** (2008-2009) Mr. Carbo was the CDM project manager for the identification and valuation of hazard mitigation measures taken by certain private industries after Hurricane Katrina. The research was done on behalf of the State of Mississippi to leverage private mitigation investment as the local match for other hazard mitigation projects. Mr. Carbo led a team that reviewed construction contracts and pay requests along with technical construction plans to evaluate eligibility under FEMA hazard mitigation programs. The evaluations included Mr. Carbo reviewing existing and preliminary Flood Insurance Studies for three counties to determine the effect on NFIP flood zone compliance of properties.

**Planner, Katrina Supplemental Community Development Block Grant Program, Mississippi.** (2007-2013) The Katrina Supplemental Community Development Block Grant Program provided \$100 million in housing assistance, through a federal HUD program, for rebuilding public housing along the Mississippi gulf coast in the aftermath of Hurricane Katrina. CDM assisted Mississippi Development Authority (MDA) in creating and supervising the application process for funding approval for 24 separate repair/renovation/construction projects. Based on assessments, CDBG funds were allocated among five separate authorities located in Region VIII (supporting 14 counties with office located in Gulfport, MS), Biloxi, Long Beach, Bay Saint Louis and Waveland. Mr. Carbo actively participated as a part of the CDM team to provide oversight to ensure applicant compliance with all local, state and federal codes regulations during bid/award and construction operation phases. In addition, Mr. Carbo developed a filing system for PHA documentation, reviewed environmental assessments, and reviewed pay requests from housing authorities.

# Nanette Vignola-Henry

## Task Order Manager

Ms. Vignola has considerable experience in environmental impact assessment, facility permit applications, wetland investigation, environmental resource management, and community relations. She has supervised and prepared environmental impact statements (EISs) for both private and municipal clients for development projects of varying types and magnitudes. Ms. Vignola has been involved in New York State Environmental Quality Review-related (NYSEQR) public participation programs. She has assisted in the preparation of scoping documents to highlight potential impacts of controversial projects, community information newsletters, and public presentations. She also has expertise in urban and regional planning of water resources and wildlife and habitat management.

**Project Manager, Environmental Impact Statement, Orange County, New York.** Ms. Vignola is the project manager for the preparation of the NYS SEQR required EIS for the upgrade and expansion of the Harriman WWTP in Orange County New York. The project includes an increase in plant capacity from 4.0 mgd to 6 mgd, and a realignment of the outfall pipeline. Receiving water quality and construction related concerns are the main issues addressed in the EIS. Construction of this project is nearing completion. (2000-2001)

**Task Manager, Environmental Impact Statement, Westchester County, New York.** For the long-term, land-based sludge management plan for the Westchester County Department of Environmental Facilities (DEF), Ms. Vignola served as task manager with responsibility for preparing a NYSEQR EIS. The county, New York State, and the U.S. EPA renegotiated DEF's Consent Decree to allow for evaluating private-venture proposals that include the beneficial use of DEF's sludge product. The private venture proposals were evaluated in a supplemental EIS and compared to the public alternative (incineration) by a weighted criteria computer model. Based upon the above evaluation, DEF identified and implemented its long-term plan. Major project issues include air quality impacts, health risks, cumulative impacts, and project alternatives. (1991-1993)

**Task Manager, Environmental Impact Statement, Suffolk County, New York.** For Suffolk County's flow augmentation (FANS) project in Long Island, Ms. Vignola was responsible for preparing a NYSEQR EIS to evaluate the impacts to stream corridors and wetlands associated with possible stream flow augmentation in the county. Flow augmentation may be necessary because sewerage of the western part of the county may significantly reduce or eliminate dry-weather flows. The main areas of concern are groundwater flows, surface water flows, aesthetics, and property values. Flows of targeted stream corridors and wetlands were determined not to be augmented, based upon the results of a CDM-developed monitoring program and established "triggering mechanisms." In addition, Ms. Vignola assisted in the annual wetland monitoring program that was used as a basis to evaluate the environmental impact of sewerage along stream corridors. (1988- 1993)

**Permit Task Manager, NYCDEP Dependability Project, New York.** Ms. Vignola, working with the joint venture project managers, to identify the permits and approvals required to implement the various projects at water supply site within and outside the NYC-limits. This includes a pilot study to reduce or eliminate leaks in a section of the Delaware Aqueduct. Ms.

### Education

M.E.M. - Environmental Management, Duke University, 1983

B.A. - Field Biology, Queens College (CUNY), 1981

Vignola also assisted in the preparation of text describing the various water supply augmentation projects under consideration by the NYCDEP for inclusion in the ongoing environmental review of their Water for the Future Program. (2011)

**Permitting Task Manager, Village of Kiryas Joel, New York.** Ms. Vignola serves as the permitting manager for the design and construction of a new 13-mile raw water main and new water treatment facility for the Village of Kiryas Joel, New York. Permitting/approval agencies include, USACE, NYSDEC, NYSEFC, NYS/OCDOT, NYSDOH, and OCDOH. Ms. Vignola was also involved with the preparation of the Draft and Final ES required under NY SEQR. The SEQR record was closed in 2009. In addition, Ms. Vignola supervised the field checking of federal and state wetlands along the 13-mile water main route. This was done to ensure minimal impact to wetlands during construction of the water main. (permitting phase is ongoing)

**Project Manager, Environmental Impact Statement, Monroe County, New York.** Ms. Vignola was involved in preparing a NYSEQR EIS for a permitted county-wide landfill. The Mill Seat solid waste landfill receives about 1,800 tpd of waste and has a 12- to 16-year capacity. The EIS was prepared in support of the 6NYCRR Part 360 permit application. She also participated in preparing a generic EIS for the County's solid waste management plan, and was involved in evaluating alternative technologies and recycling options. (1990)

**Project Team Member, Landfill Remedial Investigation/Feasibility Study, Staten Island, New York.** Ms. Vignola is participating in the Brookfield Avenue landfill RI/FS for NYCDEP. She assisted with preparing the work plan and field operations plan and was responsible for preparing a habitat assessment to be completed in accordance with NYSDEC guidance. Ms. Vignola was involved with the identification of the permits on the federal, state and local level required to implement the remedial measures as defined in the ROD at this site. (2004 – 2009)

**Technical Environmental Reviewer, Various Locations, New York.** Ms. Vignola has provided input into the development of the required environmental reviews and permits for the modifications to the NYC WPCPs needed to meet the consent order total residue chlorine discharge limits. (2007 – 2011)

**Technical Reviewer, NYCDEP Task Order Contract for Water Pollution Control Plant Improvements, New York.** Ms. Vignola reviews and coordinates the preparation of the NYCDEP-BEPA required Environmental Assessment Statements for the individual improvement projects. A database of permits and approvals for each task order project is maintained under her supervision. Ms. Vignola also assisted with the preparation and technical review of the USACE/NYSDEC application for the dock repair projects at several sites and the repair of a road with footings located within tidal wetlands. An Environmental Site Assessment for each site has been prepared. (on-going)



## Robert W. Ball, MHP, RPA

### Historic Preservation /Cultural Resources

Mr. Ball is the coordinator for the cultural resources staff as well as serving as an architectural historian and archaeologist responsible for crew supervision, field investigation, archival research, artifact analysis, state site forms, and technical report preparation of Phase I, II, and III archaeological investigations and cultural historic surveys. He meets the Secretary of Interior's Standards for architectural history and archaeology. Work outside of Kentucky includes investigations and surveys conducted in West Virginia, Tennessee, South Carolina, Michigan, Georgia, Mississippi, Ohio, Indiana, and Illinois. Mr. Ball has been a participant or managed NEPA projects for more than 15 years. Clients have included FHWA, FTA, FAA, DOD, Georgia Department of Transportation (DOT), South Carolina DOT, Kentucky DOT, Mississippi DOT, Indiana DOT, Ohio DOT, Tennessee DOT, Michigan DOT, West Virginia DOT and the New York DOT.

**State Level Documentation Blue Grass Airport Expansion, Lexington, Kentucky (2009).** Principal Investigator for a State Level I Documentation of a circa 1870 house and corn crib in Fayette County, Kentucky. Documentation consisted of measured floor-plans, photo-documentation and contextual history.

**Blue Grass Airport Expansion, Lexington, Kentucky (2009 - 2010).** Project involved a all Phases of archaeological investigations and a cultural historic survey for the proposed construction of Runway 9-27, a relocated general aviation facility and taxiway and a general aviation road at the Blue Grass Airport. The cultural historic survey resulted in the documentation of 10 historic properties, one of which was determined eligible for listing to the NRHP. The Phase I archaeological survey portion of the project resulted in the relocation and reassessment of four prehistoric sites and the discovery of a historic site recommended for further testing (Phase II). The Phase II resulted in a Phase III mitigation of excavating the site prior to construction. Served as Project Manager for the project as well as the Principal Investigator for the cultural historic survey.

**Baraga Airport Expansion, Baraga, Michigan (2008).** Project involved a Phase I archaeological and cultural historic survey of 137.3 acres for the public use airport for Baraga County, Michigan. Ten previously undocumented archaeological sites were discovered (sites 20BG64 to 20BG73). None were determined eligible for listing on the National Register of Historical Places. The cultural historic survey revealed seven structures that were older than 50 years of age which were surveyed for the project. None of the seven were recommended as eligible for listing on the NRHP. Served as the Principal investigator for the cultural historic survey as well as participated in the field work for the archaeological survey.

**CR 6 Bridge Replacement, Township of Lexington, New York (2009).** Project involved a Phase I archaeological survey for a proposed bridge replacement in Greene County, NY. Served as the Co-Principal Investigator and field director for the survey.

**Westchester County Hudson River Park, Tarrytown, New York (2009).** Principal Investigator for a Phase IA Archival Survey of a proposed park in Westchester County, New York.

#### Education

M.H.P. - Historic Preservation, University of Kentucky, 2005

B.A. - Anthropology, University of Kentucky, 1995

#### Certification

Register of Professional Archaeologists

**I-75 Connector : Jessamine, Madison & Fayette counties, KY (2012 – Present):**

Principal Investigator for a Historic Structures Survey and Assessment for a proposed new road connecting the city of Nicholasville to Interstate 75. The survey identified a total of 430 sites to be evaluated for eligibility to the National Register of Historic Places. Buildings ranged from mid-19<sup>th</sup> century to mid-20<sup>th</sup> century agricultural, residential, commercial and religious properties. Based upon the nature of each property, 28 new properties were recommended as individually eligible for listing on the National Register of Historic Places. In addition, four Historic Districts were recommended along with one Multiple Property Group.

**Red-Purple Modernization: Chicago, IL (2012 – Present):** Assisted in the Section 106 process by performing QA/QC on eligibility determinations for the cultural historic survey. Served as Principal Investigator for the effects determination portion of the project.

**KY 36: Carroll County, KY (2012).** Principal Investigator for a State Level I Documentation of an 1885 barn in Carroll County, Kentucky

**Milton-Madison Bridge: Trimble County, KY & Jefferson County, IN (2010 – 2011):**

Principal Investigator for a Historic Structures Survey and Assessment for a proposed bridge replacement over the Ohio River in Milton, Kentucky and Madison, Indiana. The survey involved the documentation and re-evaluation of resources within three (3) National Register Districts and one National Register Historic Landmark. Survey included extending the *Period of Significance* for one of the Historic Districts to include twentieth century properties that had previously been omitted. A total of 291 properties were surveyed and evaluated. Served as coordinator for all cultural resources investigations.

**Louisville-Southern Indiana Ohio River Bridges: Jefferson County KY & Floyd and Clark Counties, IN (2012):** Assisted in the Section 106 process by performing QA/QC on eligibility determinations for the cultural historic survey update. Served as Principal Investigator for the effects determination portion of the survey update and assisted in writing the 800.11(e) document.

**Red Line Extension: Chicago, IL (2012 – Present):** Assisted in the Section 106 process by performing QA/QC on eligibility determinations for the cultural historic survey. Served as Principal Investigator for the effects determination portion of the project.

**Ashland BRT: Chicago, IL (2013):** Served as Principal Investigator for the eligibility and effects determination portions of the project

**Grant C. Peatman, AIA, CID**  
Architectural Project Manager

**PROFESSIONAL PROFILE**

Mr. Peatman's experience has included institutional, governmental and commercial projects for both public and private clients. He has an excellent background in space planning, research, submittal review coordination, and has a full range of design skills.

Mr. Peatman is also responsible for the firm's technical production services, which include computer-aided design and systems drafting methodologies.

Design tasks have involved building renovations and additions as well as new construction. He has also participated in feasibility and project planning studies.

He has significant experience with historic restoration and repair projects, having worked on the majority of the firm's Agency Consultant Historic Contract work over twenty (20) years and has significant experience with Project Authorization approvals from SHPO. He has also been responsible for design tasks on office building projects involving expansion and alteration work.

**Education:**

Bachelor of Architecture

**Registrations:**

Architect: NJ, PA

Interior Designer: NJ

**Memberships:**

American Institute of Architects,

AIA - New Jersey, U.S. Green

Building Council, National Trust for

Historic Preservation, NCARB

Certificate Holder

**Years of Experience: 20**

**PROJECT EXPERIENCE**

**Miscellaneous Projects, NJ DEP, Parks & Forestry Division**

Reference: Edward Mulvan, (609) 984-3819, [emulvan@dep.state.nj.us](mailto:emulvan@dep.state.nj.us)

Construction Cost: Varies per Task Order Size: Varies per Task Order Status: Ongoing since 1988

Our experience with DEP projects has ranged from feasibility studies and projects of limited construction scope, to new projects for administrative, public and maintenance use. Services normally included design, documents preparation, and construction administration. On historical preservation projects, we coordinated our design work with the State Historic Preservation Office (SHPO). We have successfully completed over 200 historically sensitive projects and over 75 SHPO applications have been prepared for this Client.



**Historic Restoration, Fort Mott State Park**

Reference: William White, (609) 802-5886, [william.white@dep.state.nj.us](mailto:william.white@dep.state.nj.us)

Construction Cost: \$15.0 Million Size: 64,000 SF Status: Phase I & II Completed; Phase III Ongoing

This project's purpose is to stabilize the historic concrete structure of 4 Batteries. This project is anticipated to be phased over 7 different contracts. L&G is providing SHPO coordination and application services, as well as testing, cost estimating, design, bidding, construction administration services.



**Historic Renovations, NJ Pinelands Commission**

Reference: Joseph Alessi, (609) 943-4836, [joseph.alessi@treas.state.nj.us](mailto:joseph.alessi@treas.state.nj.us)

Construction Cost: \$3.5 Million Size: 12,400 SF Status: Completed 2011

This project involved renovations and alterations to the Pinelands executive office and support buildings. All buildings are listed on the National Register of Historic Places. The intent was to use the manor house and carriage house for offices, with the barn to be used for a small laboratory and conditioned storage, and the outhouse for unconditioned storage. Throughout the process L&G worked closely with the State Historic Preservation Office (SHPO) to assure Project Authorization.



**William P. Lammey, AIA**  
 Architectural Principal-in-Charge



**PROFESSIONAL PROFILE**

Mr. Lammey, as a principal of Lammey & Giorgio, is actively involved in all phases of management and design of the firm's projects. His resume includes an extensive array of projects for public and private institutional clients, governmental agencies, health organizations, educational institutions, and housing authorities. Mr. Lammey exceeds the qualifications of 36 CFR Par 61, National Parks Services Standards for Architecture and Historic Architecture

**Education:**  
 Bachelor of Architecture  
**Registrations:**  
 Architect:  
 NJ, PA  
**Memberships:**  
 American Institute of Architects,  
 AIA - New Jersey, U.S. Green  
 Building Council, National Trust for  
 Historic Preservation  
**Years of Experience:** 40

He has over 35 years of experience with projects involving historic buildings, including new facilities that are integrated within historic sites. He has worked with the NJ State Historic Preservation Office, NJ Historic Trust and local historic district review boards in order to obtain project approval. He has also been exposed to an array of public and private historic preservation projects including being the Principal- in-Charge for multiple projects as the NJ Executive State House and for over 200+ projects with DEP and DPMC.

**PROJECT EXPERIENCE**

**Long Term Concurrent Agency Consultant Contracts, Within the State of NJ**  
 Reference: Richard Flodmand, (609) 984-3629, [richard.flodmand@treas.state.nj.us](mailto:richard.flodmand@treas.state.nj.us)  
 Construction Cost: Varies per Task Order Size: Varies per Task Order Status: Ongoing since 1992

Principal-in-Charge for over 30 New Jersey agency consultant contracts, providing design, historic preservation review and construction management services for over 500 facilities projects in all of the major institutions and buildings utilized by the State of New Jersey.



**Miscellaneous Projects, NJ DEP, Parks & Forestry Division**  
 Reference: Edward Mulvan, (609) 984-3819, [emulvan@dep.state.nj.us](mailto:emulvan@dep.state.nj.us)  
 Construction Cost: Varies per Task Order Size: Varies per Task Order Status: Ongoing since 1988

Our experience with DEP projects has ranged from feasibility studies and projects of limited construction scope, to new projects for administrative, public and maintenance use. Services normally included design, documents preparation, and construction administration. On historical preservation projects, we coordinated our design work with the State Historic Preservation Office (SHPO). We have successfully completed over 200 historically sensitive projects and over 75 SHPO applications have been prepared for this Client.



**Historic Restoration, Fort Mott State Park**  
 Reference: William White, (609) 802-5886, [william.white@dep.state.nj.us](mailto:william.white@dep.state.nj.us)  
 Construction Cost: \$15.0 Million Size: 64,000 SF Status: Phase I & II Completed; Phase III Ongoing

This project's purpose is to stabilize the historic concrete structure of 4 Batteries. This project is anticipated to be phased over 7 different contracts. L&G is providing SHPO coordination and application services, as well as testing, cost estimating, design, bidding, construction administration services.



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME J. Patrick Harshbarger	13. ROLE IN THIS CONTRACT Field Professional/Principal/ Senior Historic Preservation Specialist	14. YEARS EXPERIENCE	
		a. TOTAL 28	b. WITH CURRENT FIRM 3

15. FIRM NAME AND LOCATION (City and State)  
Hunter Research, Inc., Trenton, New Jersey

16. EDUCATION (DEGREE AND SPECIALIZATION)  
M.A., History and Museum Studies, University of Delaware (Hagley Program in Industrial History & Heritage), 1990  
M.P.A., Public Administration, Florida International University, 1988  
B.A., History, magna cum laude, Brown University, 1984

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**

Co-author, Historic Bridge Rehabilitation or Replacement Decision Making, AASHTO, 2008; National Editor, Society for Industrial Archeology Newsletter (1996-present); Trustee, Newlin Grist Mill Foundation, Glen Mills, Pa.; 24 Hr. HAZWOPER; Section 106 training workshops (PennDOT and Ohio DOT).

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>Architectural and Archaeological Assessments for the 99th Regional Support, Various U. S. Army Reserve Center Locations, Middle Atlantic and Northeastern United States</b>	<b>2012-present</b>	
a (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Harshbarger served as <i>Principal Historian/Architectural Historian and Project Manager</i> for the Section 106 assessments for 16 U.S. Army Reserve Center locations in Massachusetts, Rhode Island, New York, New Jersey, Pennsylvania and Maryland. Mr. Harshbarger supervised historical background research and architectural survey, with an emphasis on contexts for the Modernist-style architecture of the 1950s Reserve Centers; he is primary author of the architectural survey forms and assists with the Phase I and IB archaeological reports. To date, the architectural assessments are 95% complete, the Phase IB surveys are 100% complete and the Phase I surveys are 95% complete. <b>Total Cost \$162,000.</b>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Phase I and II Archaeological and Cultural Resource Surveys, Phase III Archaeological Mitigations, U.S. Route 301, Sections 1 and 2, St. Georges Hundred, New Castle County, Delaware</b>	<b>2011-present</b>	
b (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Harshbarger was <i>Principal Historian</i> who supervised background research and analyzed historic data for three Phase II surveys along the proposed re-alignment of U.S. Route 301. The sites were located along a series of early colonial cart roads connecting the Chesapeake and Delaware Bays and included late 17th-century to mid-19th-century components. The methodology was designed to build upon, not duplicate, the efforts undertaken during the Phase I investigations. Research focused on land and court records at the Delaware Public Archives, the Maryland Historical Society and the Library of Congress. <b>Total Cost: \$2.1 million.</b>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Phase IA and IB Cultural Resources Survey, Natural Lands Trust Wetland Restoration, Downe Township, Cumberland County, New Jersey</b>	<b>2011</b>	
c (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Harshbarger was <i>Principal Historian/Architectural Historian</i> of this Phase IA Archaeological Survey and Intensive-Level Historic Architectural Resources Survey, Natural Lands Trust, Downe Township, Cumberland County, New Jersey. Prepared for the Natural Resources Conservation Service of the U.S. Department of Agriculture under a task order contract, this intensive-level survey for Section 106 focused on former farmsteads and dikes in the salt marsh meadows adjacent to the Delaware Bay. Work included archival research and the preparation of a historic context and survey forms. The report identified no eligible resources and recommended no further work. <b>Total cost: \$27,500.</b>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Phase I Cultural Resources Survey, Ely/Allen House Property, Millstone Township, Monmouth County, New Jersey</b>		
d (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Harshbarger was <i>Principal Historian/Architectural Historian</i> for a Phase I cultural resources survey undertaken for Affordable Housing Alliance, Inc. in connection with the planned construction of a Multi-Family Housing Program Center in Millstone Township, Monmouth County, New Jersey. Mr. Harshbarger supervised the prehistoric and historical background research, conducted the architectural fieldwork, synthesized the results of the research and wrote the technical report. No further archaeological survey or evaluation was recommended. <b>Total Cost: \$8,700.</b>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Phase IA Archaeological and Historical Evaluation, Three Sunken Vessels, Hackensack River, Droyer's Point Area, Jersey City, Hudson County, New Jersey</b>	<b>2010</b>	
e (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Harshbarger was <i>Historian and Project Manager</i> for a Section 106 and NJDEP coastal permit application, involving a Phase 1A evaluation of three sunken wood vessels located off of Droyer's Point in Jersey City. Evaluation was part of the remediation project associated with the Honeywell Site 7A project to encapsulate contaminated portions of the river bottom. Through use of existing cultural resources survey data, much of it completed as part of USACE drift removal projects south of the project location, a recommendation was made that the vessels had a low to very low potential of historical or archaeological significance. <b>Total Cost: \$14,000.</b>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Check if project performed with current firm	



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME Richard W. Hunter	13. ROLE IN THIS CONTRACT Field Manager/Principal	14. YEARS EXPERIENCE	
		A. TOTAL 39	B. WITH CURRENT FIRM 27

15. FIRM NAME AND LOCATION (City and State)  
Hunter Research, Inc., Trenton, New Jersey

16. EDUCATION (DEGREE AND SPECIALIZATION)  
Ph.D., Geography, Rutgers University, New Brunswick, New Jersey, 1999.  
M.A., Archaeological Science, University of Bradford, England, 1975  
B.A., Archaeology and Geography, University of Birmingham, England, 1973

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  
Registry of Professional Archeologists (RPA) [formerly Society of Professional Archeologists] (accredited 1979; certification in field research, collections research, theoretical or archival research)

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**

**ADDITIONAL TRAINING**

8-Hour Confined Space Entry Training (American Science & Technology, June 2007); Section 106 training workshops (Ohio DOT).

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>Architectural and Archaeological Assessments for the 99th Regional Support, Various U. S. Army Reserve Center Locations, Middle Atlantic and Northeastern United States</b>	<b>2012-present</b>	
a (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Dr. Hunter served as <i>Principal</i> for the Section 106 assessments for 16 U.S. Army Reserve Center locations in Massachusetts, Rhode Island, New York, New Jersey, Pennsylvania and Maryland. Dr. Hunter provided overall project supervision and direction of the architectural surveys, Phase IB archaeological surveys, and Phase I archaeological surveys. To date, the architectural assessments are 95% complete, the Phase IB surveys are 100% complete and the Phase I surveys are 95% complete. <b>Total Cost \$162,000.</b>	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Green Brook Flood Damage Reduction Project, Phase I and II Archaeological Investigations, Middlesex and Somerset Counties, New Jersey</b>	<b>2003-2011</b>	
b Dr. Hunter served as <i>Project Manager/Principal Investigator - Archaeology</i> for a series of projects in Middlesex and Somerset Counties associated with the Green Brook Flood Damage Reduction Project. Work was conducted under a New York Army Corps of Engineers task order agreement primed by Mabbett and Associates. These studies consisted primarily of Phase I and II archaeological surveys directed at locating archaeological sites and establishing the boundaries of known sites, which had been judged eligible for inclusion in the National Register of Historic Places through earlier cultural resources investigations undertaken by Hunter Research in 1988-89. Dr. Hunter supervised the historical research, field investigations and analysis; he prepared the data recovery plans and assisted in final technical report production. He also wrote a popular booklet for distribution to the local community and supervised the translation and production of a Spanish version of this publication. <b>Total Cost \$155,000.</b>	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>U.S. Army Corps of Engineers, Philadelphia District, Indefinite Quantity Contract, Shoreline and Near Shoreline Cultural Resource Surveys, New Jersey</b>	<b>1995-2002</b>	
c (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Dr. Hunter served as <i>Project Manager/Principal Investigator</i> for a series of shoreline cultural resources projects issued under an indefinite quantity contract with the Philadelphia District of the Army Corps of Engineers. Several projects requiring historic architectural and archaeological assessments were conducted from Manasquan to Cape May and in the Delaware Bay. Most of this work was issued to address specific sections of shoreline and involved background research, field evaluations, building analyses and subsurface testing at the Phase I and II levels of study. <b>Total Cost: \$227,000.</b>	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>New Jersey Schools Development Authority Task Order Agreement for Historic Preservation Services</b>	<b>2008-present</b>	
d (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Dr. Hunter served as <i>Project Manager/Cultural Resources</i> for work undertaken for the New Jersey Schools Development Authority (formerly the Schools Construction Corporation). Under the task order agreement Hunter Research has undertaken 9 separate tasks at five different school locations (also, as a subconsultant, the firm has conducted an additional seven tasks at four schools). Tasks have included historical research, assessment of historic significance, Historic American Building Survey-standard documentation, archaeological monitoring during construction and remediation, and interpretive signage. <b>Total Cost: \$135,000.</b>	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Combined Phase I/II Archaeological Survey, Assunpink Creek Restoration, City of Trenton, Mercer County, New Jersey</b>	<b>2010-2012</b>	
e (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <i>Project Manager/Principal Investigator</i> for the Assunpink Creek Restoration Project Phase I/II archaeological study in Trenton, New Jersey. This work was carried out in connection with the U.S. Army Corps of Engineers and City of Trenton's planning for the restoration of a segment of the Assunpink Creek in downtown Trenton. The project is also closely interwoven with the New Jersey Department of Transportation's concept development and feasibility assessment for the proposed rehabilitation/replacement of the South Broad Street bridge for which Hunter Research has also provided cultural resource services. Responsibilities included supervising all cultural resources aspects of the project (definition of the historic architectural and archaeological Areas of Potential Effect; identification of interested parties; background and documentary research; historic architectural field survey; archaeological testing and report preparation). The report assessed the various project alternatives under consideration in terms of their possible effects on historic architectural resources in the surrounding area and on the archaeological potential of the land beneath and immediately adjacent to the creek and bridge. <b>Total Cost \$101,000.</b>	<input checked="" type="checkbox"/> Check if project performed with current firm	

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME James Lee	13. ROLE IN THIS CONTRACT Field Professional/Principal/ Senior Historic Preservation Specialist	14. YEARS EXPERIENCE	
		A. TOTAL 17	B. WITH CURRENT FIRM 12

15. FIRM NAME AND LOCATION (City and State)  
Hunter Research, Inc., Trenton, New Jersey

16. EDUCATION (DEGREE AND SPECIALIZATION)  
M.A., Archaeology, University of Durham, Durham, United Kingdom, 1996  
B.A., Anthropology and History, Rutgers University, New Brunswick, New Jersey, 1995

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  
Register of Professional Archaeologists

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**

**ADDITIONAL TRAINING**

40-Hour Occupational Safety and Health for Hazardous Waste Site Operations Course, 2002; 8-Hour Annual HAZWOPER Training, 2013; 8-Hour Confined Space Entry Training, 2007

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Archaeological Monitoring, Statue of Liberty and Ellis Island, Life and Safety Upgrades and Hurricane Sandy Damage Repair, New York	2011-present	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Lee is <i>Principal Investigator</i> for two monitoring projects at the Statue of Liberty and Ellis Island. In 2011 and 2012 he supervised archaeological monitoring during construction of life and safety upgrades at the Statue of Liberty; in the spring of 2013 (and currently ongoing) he started supervising additional monitoring at the Statue of Liberty and Ellis Island in connection with Superstorm Sandy damage repair. In both cases, the work has entailed the documentation of 19th- and 20th-century archaeological features through digital photography, in-field scale drawings, measurements and notes. This work was performed by Hunter Research, Inc. under contract to Atkins North America, Inc. for the National Park Service. Mr. Lee is responsible for client communication, supervision of monitoring and laboratory analysis, and final report writing. <b>Total cost:</b> \$89,600.		
Historic and Archaeological Investigations, ATP Site, City of Paterson, Passaic County, NJ	2010-2011	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Check if project performed with current firm In 2010 and 2011, working alongside URS Corporation staff, Mr. Lee served as <i>Principal Investigator</i> for the cultural resource investigation of the ATP site, a study that sought to lay the groundwork for the site's future preservation and interpretation as a component within the Paterson Great Falls National Historical Park. Related work tasks involved an assessment of existing conditions, archaeological field investigations and the development of preservation treatment recommendations. <b>Total Cost:</b> \$234,431.		
Archaeological Investigations, Mercer County Marsh Nature & Interpretive Center at Roebling Park (Abbott Farm Interpretive Center), Hamilton Township, Mercer County, New Jersey	2011-present	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Lee was <i>Principal Investigator</i> for this archaeological data recovery project conducted at the Abbott Farm interpretive center property. The project was carried out in compliance with New Jersey Register of Historic Places law in connection with the County of Mercer's proposed expansion and conversion of a suburban residence into a community-based educational and recreational facility. The project site is located within the core of the Abbott Farm National Historic Landmark, an extensive tract of tidal wetland and adjoining upland surrounding the confluence of Crosswicks Creek and the Delaware River that contains some of the best-known and most consequential prehistoric archaeological resources on the eastern seaboard of the North American continent. Archaeological survey activity entailed: archaeological excavations at the site of anticipated soil disturbance; video recordation of fieldwork; analysis of research and field data; coordination with County and State agencies; and preparation of a technical report. <b>Total Cost:</b> \$79,000.		
Gowanus Canal Archaeological Sensitivity Study, Borough of Brooklyn, New York City, New York	2011-2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Check if project performed with current firm In January 2012, Hunter Research, Inc. completed an Archaeological Sensitivity Study of the Gowanus Canal for the U.S. Environmental Protection Agency (EPA) Region 2 as part of the planning for improving water quality and removing contaminants from former industrial sites that lined the canal during its 19th-century heyday. Mr. Lee served as <i>Principal Investigator - Archaeology</i> for this project. He conducted an extensive review of existing environmental reports and soil-boring data locating several areas where there was the potential to identify archaeological deposits. The likelihood for these sites to have survived intact through the process of 19th- and 20th-century urbanization was judged to be low but not entirely without potential. Sites identified included prehistoric shell middens, tide mills, Revolutionary War battleground burial grounds, sunken vessels and canal-related features including drainage structures and historic bridges. <b>Total Cost:</b> \$20,500.		
Lafayette Gardens Senior Center, Archaeological and Historical Consulting Services, Jersey City, Hudson County, New Jersey	2002-2004	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Lee was <i>Principal Investigator</i> for the archaeological assessment of the Lafayette Senior Living Center property in Jersey City, Essex County, New Jersey. The project was sponsored by the Jersey City Housing Authority and partially funded by the United States Department of Housing and Urban Development under the Hope VI program. Work tasks consisted of assessing the archaeological potential of the project area through documentary research and a site visit. Since the project was likely to impact remains of the Morris Canal, recommendations were made for archaeological monitoring during construction and development of historic signage regarding the history of the canal. <b>Total Cost:</b> \$22,500.		



## Richard Grubb & Associates, Inc. Cultural Resource Consultants

DBE/WBE/SBE Certified

email: [mail@richardgrubb.com](mailto:mail@richardgrubb.com) • [www.richardgrubb.com](http://www.richardgrubb.com)

### Paul J. McEachen, Principal Senior Archaeologist (36 CFR 61)

#### **Years of Experience**

With this firm:

1998-Present

With other firms: 3

#### **Education**

MA 1996

Memorial University  
Anthropology

BA 1993

University of Windsor  
Anthropology and  
Classics

#### **Professional Training**

CRM Essentials:

Restoring Your Skills,  
Trenton, NJ,  
October 2005

Section 106 Workshop,  
Albany, NY,  
November 2008

#### **Professional Registration**

Register of Professional  
Archaeologists

#### **Professional Societies**

Archaeological Society  
of New Jersey

Society for American  
Archaeology

Eastern States  
Archaeological  
Federation

Middle Atlantic  
Archaeological  
Conference

#### **Professional Experience Summary:**

Paul J. McEachen provides technical oversight on most archaeological projects undertaken in New Jersey. Mr. McEachen has served as a Principal Investigator on all phases of archaeological investigations, and specializes in prehistoric archaeology. Mr. McEachen has prepared and directed cultural resources surveys in accordance with Section 106 of the National Historic Preservation Act, NEPA, and other municipal and state cultural resource regulations. He exceeds the qualifications set forth in the Secretary of Interior's Standards for an Archaeologist [36 CFR 61].

#### **Representative Project Experience:**

**Laurel Lane Reconstruction, Woodland Township, Burlington County, NJ (Sponsor: Woodland Township)** Provided oversight during the Phase IB archaeological survey to identify the presence or absence of potentially significant archaeological resources in the Area of Potential Effects (APE). No potentially significant archaeological resources were identified and no further archaeological survey was recommended. Project was funded in part by a Community Development Block Grant Program, administered by the United States Department of Housing and Urban Development (HUD) and was performed in compliance with Section 106 of the National Historic Preservation Act.

**Client Contact:** Tom Leisse, Pennoni Associates, Inc., 856- 547-0505, [tleisse@Pennoni.com](mailto:tleisse@Pennoni.com)

**Readington Township Archery Range, Readington Township, Hunterdon County, NJ (Sponsor: State of New Jersey)** Provided oversight during the New Jersey Department of Environmental Protection-Division of Parks and Forestry (NJDEP) sponsored archaeological screening for a proposed archery range. The purpose of the screening was to identify known and potential archaeological resource constraints in the project area. The screening determined that the project area had a moderate sensitivity for prehistoric resources and a low to moderate sensitivity for historic resources. Work was completed as part of an Environmental Assessment and in compliance with the National Environmental Policy Act (NEPA).

**Client Contact:** Beth Bouvier, Lan Associates, 201-447-6400, [bb@lan-nj.com](mailto:bb@lan-nj.com)

**Raceway Storm Damage Repairs and Raceway Embankment Reconstruction, City of Bridgeton, Cumberland County, NJ (Sponsor: City of Bridgeton)** Provided oversight for the Phase I archaeological survey performed in connection with proposed storm damage repairs to the historic Bridgeton Raceway, a contributing resource to the National Register-eligible Cumberland Nail and Iron Works. Fieldwork included subsurface testing at geotechnical boring locations and proposed access roads along the west bank of the raceway. No potentially significant archaeological resources were identified in these areas. As part of the project, a series of wooden timbers and other features of the raceway were recorded to Historic American Engineering Record standards in advance of the proposed repairs. The project, financed through federal public assistance disaster recovery funding administered by the Federal Emergency Management Agency, was completed in compliance with NEPA, and Section 106 of the National Historic Preservation Act.

**Client Contact:** Aislinn Gandy, Fralinger Engineering, PA, 856-451-2990, [agandy@fralinger.com](mailto:agandy@fralinger.com)

Pennsylvania  
PMB 301 • 3440 Lehigh Street  
Allentown, Pennsylvania 18103  
610-435-4525 • fax: 610-821-7988

New Jersey, Headquarters  
259 Prospect Plains Road • Building D  
Cranbury, New Jersey 08512  
609-655-0692 • fax: 609-655-3050

Maryland  
PMB 157 • 861 Washington Avenue  
Chestertown, Maryland 21620  
410-420-7422





**Richard Grubb & Associates, Inc.**  
**Cultural Resource Consultants**

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**Damon Tvaryanas, Principal Senior Historian (36 CFR 61)**

**Years of Experience**

With this firm:

2011-Present

With other firms: 20

**Education**

M.S. 1993

University of  
Pennsylvania

Historic Preservation

B.A. 1991

New York University  
Fine Arts

**Professional Training**

40-Hour Health and  
Safety Training for  
Hazardous Waste  
Operations and  
Emergency Response  
(OSHA 29 CFR

1910.120), October

2002; 8-Hour

HAZWOPER

Refresher, August 2011

**Professional Experience Summary:**

Damon Tvaryanas is Principal Investigator, Principal Senior Historian on projects performed by RGA. Mr. Tvaryanas' technical and managerial responsibilities include project management, the direction of cultural resource investigations including historical architectural surveys, preservation plans, historic structure reports, National Register of Historic Places nominations, Historic American Building Survey (HABS)/Historic American Engineering Record (HAER) documentation, the development of historic interpretive signage, displays and publications, and the preparation of reports and proposals. Mr. Tvaryanas provides technical oversight to project staff to ensure that all cultural resources investigations are technically complete and comply with Section 106 of the National Historic Preservation Act, NEPA, Section 4(f), and other cultural resource regulations. He exceeds the qualifications set forth in the Secretary of Interior's Standards for an Historian [36 CFR 61].

**Representative Project Experience:**

**Bay Head Yacht Club Clubhouse, Borough of Bay Head, Ocean County, NJ (Sponsor: Bay Head Yacht Club)** Providing technical oversight for the ongoing historic preservation and cultural resource consulting services being performed in connection with the proposed elevation and renovation of the early twentieth century Bay Head Yacht Club Clubhouse, which was damaged during Hurricane Sandy. The proposed renovations will help to facilitate the building's long term preservation by providing it with increased protection from future storm events. The work is being performed in compliance with Section 106 of the National Historic Preservation Act.

**Client Contact:** John A. McKinney, Jr., Esq., Wolff-Samson, 973-530-2036,  
[jmckinney@wolffsampsom.com](mailto:jmckinney@wolffsampsom.com)

**Pennington Park World War Memorial, City of Paterson, Passaic County, NJ (City of Paterson)** Conducted an historic architectural survey for the National Register of Historic Places Eligibility Evaluation of the Pennington Park World War Memorial. The survey was undertaken as part of an assessment of project effects on the construction of a new firehouse proposed on an adjacent property. The work was performed in compliance with the National Environmental Policy Act and Section 106 of the National Historic Preservation Act.

**Client Contact:** Frank Rossi, Boswell Engineering, 201-373-8905,  
[frossi@boswellengineering.com](mailto:frossi@boswellengineering.com)

**Emergency North Abutment Slope Protection, Ocean Drive (CR 621) Bridge over Middle Thorofare, Lower Township, Cape May County, NJ (Sponsor: County of Cape May)** Provided oversight to the Senior Historian for the cultural resources survey performed in connection with proposed emergency slope protection repairs around the north abutment and north approach roadway of the Ocean Drive Bridge over Middle Thorofare caused by Hurricane Sandy. The Phase IA archaeological survey determined that the project area had a low sensitivity for significant archaeological resources. The intensive-level architectural survey assessed the potential project effects on this National Register-eligible bridge.

**Client Contact:** Wayne A. Faulkner, Stantec, 856-234-0800, [wayne.faulkner@stantec.com](mailto:wayne.faulkner@stantec.com)

Pennsylvania  
PMB 301 • 3440 Lehigh Street  
Allentown, Pennsylvania 18103  
610-435-4525 • fax: 610-821-7988

New Jersey, Headquarters  
259 Prospect Plains Road • Building D  
Cranbury, New Jersey 08512  
609-655-0692 • fax: 609-655-3050

Maryland  
PMB 157 • 861 Washington Avenue  
Chestertown, Maryland 21620  
410-420-7422

Jerome J. Harcar  
Historic Preservation Manager, BRS

*Mr. Harcar has extensive experience (30+ years) working with local, state and federal government requirements concerning the evaluation and review of properties for historic significance and the potential effects of projects on historic resources.*

*He is familiar with the Secretary of Interiors Standards for the Treatment of Historic Properties and the proper techniques required for the rehabilitation and restoration of property while working within local and state building code requirements.*

*He meets and exceeds the Secretary of the Interior's Professional Qualification Standards required by the National Park Service for Architectural History.*

*Mr. Harcar has been an advisor to many Trenton area historic community organizations over the past three decades including: Mercer Cemetery Board of Trustees, Port of Trenton Museum, Old Mill Hill Society, Berkeley Square Civic Association, and Trenton Downtown Association.*

*He is also an active member of numerous history/historic preservation organizations including: the Trenton Historical Society Board of Trustees (past Vice President), the Ewing Township Historic Preservation Society, Mercer County Cultural Heritage Commission (original member) Preservation New Jersey, and the National Trust for Historic Preservation.*

**Historic Preservation Specialist**

**Dates: 1985-2010**

**Client: City of Trenton, Department of Housing and Economic Development**

JR Capasso, City of Trenton, Brownfields Coordinator  
319 East State Street, Trenton, New Jersey 08608  
[jcapasso@trentonnj.org](mailto:jcapasso@trentonnj.org)  
(609) 989-3501

Before his retirement in 2010, Mr. Harcar was employed for 25 years by the City of Trenton's Department of Housing and Economic Development, Division of Planning as the City's Historic Preservation Specialist where he coordinated all historic preservation activities for the City of Trenton.

His work included preservation planning, historic research and survey work, grant management and coordinating restoration construction projects. He was responsible for compliance with all state and federal regulations pertaining to historic property in the City of Trenton including Section 106 review of the National Historic Preservation Act.

**Years Experience:**

30+ Years

**Education**

A.S. - Architecture,  
Mercer County College,  
1976

B.A. - Historic  
Preservation, Roger  
Williams University,  
1980

**Certifications**

Licensed Real  
Estate Sales  
Person, New Jersey

Licensed Real  
Estate License,  
National Real  
Estate Referral  
Group



He oversaw the functions of the Trenton Landmarks Commission for Historic Preservation supplying historic preservation and operational guidance for the Commission.

He also advised all departments of City government on landmarks issues and provided preservation planning testimony to the City's Planning Board and Zoning Board of Adjustment.

He was the coordinator of the City's Project Application Review Committee (PARC) that served as a code review group and a clearing house for all potential development projects being proposed in the City of Trenton.

Selected projects completed while at the City of Trenton:

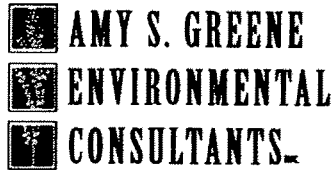
- Urban History Initiative Grant (National Park Service funded \$1.7M used for historic preservation )-2010  
Work involved producing preservation planning documents and implementing construction projects on numerous city landmarks (Trent House, Cadwalader Park, Battle Monument, Higbee School, Douglass House, and City Hall)
- Cadwalader Park Master Plan-2000  
Master plan document included park history, proposed improvements, funding plan, and landscape management
- Designation of the Fisher/Richey/Perdicaris Historic District-1998  
Evaluation of local neighborhood properties for historic significance. Undertake public outreach and education and final designation as a local landmark.
- Trenton Historic Preservation Plan (Chapter of the City's Land Use Master Plan)-2001  
Coordinated and managed consultant's activities for completion of preservation master plan chapter.
- Structural Stabilization of the Delaware Inn (future home for the Port of Trenton Museum)2008-2010  
Coordinated engineers work (producing RFP, managing budgets and construction management) for the structural repairs. 2008-2010

Selected Section 106 review projects involving the identification of historic properties and assessment of effects on these resources (36 CFR Part 800)

Projects funded through Federal programs including CDBG.

- Isles/Youth Build and Old Trenton Housing Rehabilitation 2007
- Magic Marker 435-469 Calhoun Street 2006
- Whittaker Condominiums 338-350 S. Broad Street 2009
- Carteret Avenue Housing Rehabilitation 2009
- National Register Nomination review of the Trenton Ferry District 2005





AMY S. GREENE

ENVIRONMENTAL

CONSULTANTS

**LYNN BRASS-SMITH**

*Field Professional/Senior Environmental Scientist*

**EDUCATION**

B.S., Environmental Studies, Stockton State College, 1978

**RELEVANT EXPERIENCE**

**Technical Environmental Studies for NEPA Environmental Impact Statement (FAA) for the Atlantic City International Airport Expansion/Master Plan Update, Egg Harbor, Hamilton, and Galloway Townships, Atlantic County, NJ**

*Client(s):* South Jersey Transportation Authority/AECOM

*Contact:* Mr. Bryan Oscarson, (215)399-4333, *email:* [bryan.oscarson@aecom.com](mailto:bryan.oscarson@aecom.com)

*Contract:* 00-C-2223; *Period of Performance:* June 2000 – September 2003

Project Manager responsible for technical report preparation and threatened and endangered species, wetlands, wildlife, and vegetation chapters of a NEPA compliant EIS in accordance with FAA requirements. Inventoried and assessed impacts upon Federal, State and Pinelands listed floral and faunal species on the 5,000-acre airport property. Performed targeted surveys for barred owl and Cooper's hawk, developed a frosted elfin habitat suitability map, supplemented and updated existing vegetation, wetland and grassland bird habitat mapping. Developed a grassland conservation and management plan that provides for no net loss of habitat value for two State and Pinelands listed species, the upland sandpiper and grasshopper sparrow. Habitat Suitability Index (HSI) models for the upland sandpiper and grasshopper sparrow were developed in consultation with the NJDEP Endangered and Nongame Species Program and US Fish and Wildlife Service, and the Habitat Evaluation Procedures (HEP) was run to establish baseline conditions, determine project impacts and evaluate the effectiveness of a grassland conservation and management plan. The project necessitated extensive coordination with the FAA Technical Center, South Jersey Transportation Authority, USDA APHIS, US Fish and Wildlife Service, NJ Pinelands Commission, NJDEP Endangered and Nongame Species Program and EIS interdisciplinary team. The FAA issued a Record of Decision based on the findings of the final EIS. The NJ Pinelands Commission and the SJTA subsequently entered into a Memorandum of Agreement authorizing future airport development. ASGECI received a Certificate of Recognition from the Federal Aviation Administration and SJTA technical excellence, creative facilitative support and superior project coordination on the Atlantic City International Airport Environmental Impact Statement.

**Preparation of Multiple NEPA (FCC) Compliant Environmental Screening Reports**

*Client(s):* Omnipoint Communications, Inc./The Whitman Companies

*Contact:* Mr. John Cipollone, (732) 390-5858, *email:* [jcipollone@whitmanco.com](mailto:jcipollone@whitmanco.com)

*Contract:* N/A; *Period of Performance:* February 2009 to February 2010

North Brunswick Township, Middlesex County, NJ; Blairstown Township, Warren County, NJ; Ridgefield Borough, Bergen County, NJ; Town of Dover, Morris County, NJ; Wall Township, Monmouth County, NJ; Cedar Grove Township, Essex County, NJ; East Brunswick Township, Middlesex County, NJ, and Little Egg Harbor Township, Ocean County, NJ. Project Manager responsible for performing environmental screening of federally listed species for proposed telecommunications facilities in accordance with 47CFR § 1.1307. Each environmental screening was performed following the US Fish and Wildlife Service policy and guidelines outlined in *Communication Tower and Antenna Consultation in New Jersey*.

**Technical Memorandum in Support of NEPA Environmental Assessment (FTA) for LaGuardia Airport Redevelopment Program, Central Terminal Building Redevelopment and East End Electrical Substation and Parking Garage, Borough of Queens, Queens County, NY**

*Client(s):* Port Authority of NY&NJ/AECOM

*Contact:* Mr. Bryan Oscarson, (215) 399-4333, *email:* [bryan.oscarson@aecom.com](mailto:bryan.oscarson@aecom.com)

*Contract:* N/A; *Period of Performance:* February 2012 to Present

Project Manager responsible for obtaining baseline natural resource data and preparing a technical memorandum in support of a NEPA compliant Environmental Assessment for the proposed East End Electrical Substation and Parking Garage at LaGuardia Airport. Project Manager responsible for obtaining baseline natural resource data, preparing a technical memorandum, and assisting in the preparation of the biotic resources, threatened and endangered species, wetlands, floodplains, water resources and cumulative impacts sections of a NEPA compliant Environmental Assessment for the proposed Central Terminal Building Redevelopment Program at LaGuardia Airport. Ms. Brass-Smith will also provide technical assistance to the FAA during preparation of the FONSI for the Central Terminal Modernization.

**NEPA Categorical Exclusion Documentation (FHWA) for Ocean City Ninth Street Corridor Bicycle Pedestrian Improvement Program, Ocean City, Cape May County, NJ**

*Client(s):* South Jersey Transportation Planning Organization/Orth-Rodgers & Associates

*Contact:* Mr. Tim Chelius, (856) 794-1941, *email:* [tchelius@sjtppo.org](mailto:tchelius@sjtppo.org)

*Contract:* N/A; *Period of Performance:* April 2000 – December 2001

Project Manager responsible for preparation of NEPA Categorical Exclusion Documentation for proposed bicycle and pedestrian improvements. Identified environmental permitting requirements, assessed potential environmental impacts and recommended mitigation measures to minimize impacts upon natural resources.

**Wetland Delineation, Endangered and Threatened Species Assessment and NJ Pinelands Development Approval for Federal Air Marshal Training Support Facility, Egg Harbor Township, Atlantic County, NJ**

*Client(s):* Federal Air Marshal Service/CDM Constructors, Inc.

*Contact:* Ms. Patricia Forgang, (732) 225-7000, *email:* [ForgangPK@cdmsmith.com](mailto:ForgangPK@cdmsmith.com)

*Contract:* N/A; *Period of Performance:* September 2011 – December 2012

The Office of Law Enforcement Federal Air Marshal Service (FAMS) proposes to construct a new training support facility within the existing Federal Air Marshal Training Center operational area at the William J. Hughes Technical Center in Egg Harbor Township, Atlantic County, New Jersey. Environmental Project Manager responsible for performing a wetland investigation to verify the absence of wetlands within 300-feet of the project, conducting threatened and endangered species habitat assessments for Cooper's hawk, barren owl, Pine Barrens treefrog, northern pine snake, Pine Barrens gentian, narrow-leaved vervain, and Pine Barrens reedgrass; swamp pink, Knieskern's beaked rush, Pine Barrens bellwort and Pine Barrens boneset; and preparing a NJ Pinelands Commission Public Development Approval (PDA) application and facilitating the approval of the PDA. The project required coordination with the FAMS, design engineer, and the Pinelands Commission. With the exception of Cooper's hawk, rare, threatened and endangered species habitat was not present. It was successfully demonstrated that the project was designed to avoid irreversible adverse impacts on habitats that are critical to the survival of any local populations of Cooper's hawk. The application for Public Development Approval was subsequently approved by the Pinelands Commission.

**NEPA Environmental Assessment (FTA) and Environmental Permitting for Harlem River Lift Bridge Submarine Cable, New York City, Bronx and New York Counties, NY.**

*Client(s):* Metro-North Commuter Rail Company Co./Envirodyne Engineers, Inc.

*Contact:* Ms. Karen Timko, Esq., (914) 461-0592, *email:* [timko@mnr.org](mailto:timko@mnr.org)

*Contract:* N/A; *Period of Performance:* November 1992 – April 1994

Project Manager responsible for preparing the following permit applications and certification requests for the replacement of a communications submarine cable for the Harlem Lift Bridge: USACE Section 10 permit; US Coast Guard authorization; NYSDEC SPDES permit, Section 401 Water Quality Certification, and Waiver of Tidal Wetlands Permit, NYSDOS Coastal Zone Consistency Determination, and Federal Transportation Authority Environmental Assessment.

**RECOGNITION**

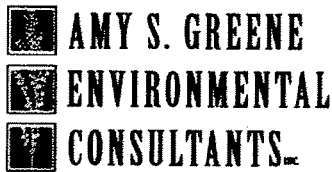
FAA and South Jersey Transportation Authority, Certificate of Recognition for technical excellence on Atlantic City Airport NEPA EIS, 2004

**COMPUTER SKILLS**

Microsoft Word, Excel, PowerPoint

**U.S. CITIZEN/FOREIGN STATUS**

U.S. Citizen



**AMY S. GREENE**

**ENVIRONMENTAL**

**CONSULTANTS**

**DOUGLAS J. CHABRAK, PWS**  
*Field Professional/Senior Environmental Scientist*

#### **EDUCATION**

B.S., Environmental Science, East Stroudsburg University, 1989

#### **PROFESSIONAL CERTIFICATIONS**

Society of Wetland Scientists, member and Professional Wetland Scientist, 1995

Provisionally certified by the Baltimore District US Army Corps of Engineers as a Certified Wetland Delineator, 1993

#### **RELEVANT PROJECT EXPERIENCE**

##### **NEPA Categorical Exclusion Documentation (FHWA) for Emergency Restoration of Ocean Drive (CR 619) at Corson's Inlet, Township of Upper, Cape May County, NJ**

*Client(s):* Cape May County/Stantec Consulting Services, Inc.

*Contact:* Mr. Ronald Lotrecchio, PE, (732) 473-9360, *email:* [Ronald.lotrecchio@stantec.com](mailto:Ronald.lotrecchio@stantec.com)

*Contract:* N/A; *Period of Performance:* February 2013 – Present

Project Manager responsible for completing required fieldwork, wetland delineation, data collection, threatened and endangered species review, and technical research relative to preparation of a Categorical Exclusion Document (CED) for a proposed emergency roadway restoration project to remediate damages to public infrastructure caused by Hurricane Sandy. Mr. Chabrak prepared and incorporated technical information into the CED pursuant to the Federal Highway Authority (FHWA) NEPA requirements. Mr. Chabrak also prepared relevant applications to the US Army Corps of Engineers for a Nationwide Permit pursuant to Section 404 of the Federal Clean Water Act and Section 10 of the Federal Rivers and Harbors Act. Mr. Chabrak coordinated the preparation of an application to the New Jersey Department of Environmental Protection on behalf of Cape May County for expedited authorization under State regulations pursuant to Administrative Order 2012-13, which helps public entities advance certain emergency repairs to public infrastructure that are a result of Hurricane Sandy.

##### **NEPA Categorical Exclusion Documentation for Emergency Restoration of Ocean Drive (CR 621) Bridge over Middle Thoroughfare, Township of Lower, Cape May County, NJ**

*Client(s):* Cape May County/Stantec

*Contact:* Mr. Wayne Faulkner, PE, (856) 234-0800, *email:* [wayne.faulkner@stantec.com](mailto:wayne.faulkner@stantec.com)

*Contract:* N/A; *Period of Performance:* February 2013 – Present

Environmental Scientist responsible for working on the completion of required fieldwork, wetland delineation, data collection, threatened and endangered species review, and technical research relative to preparation of a Categorical Exclusion Document (CED) for a proposed emergency roadway restoration project to remediate damages to public infrastructure caused by Hurricane Sandy. Mr. Chabrak worked on the preparation of technical information to be incorporated into the CED pursuant to the Federal Highway Authority (FHWA) NEPA requirements. Mr. Chabrak worked on the preparation of an application to the New Jersey Department of Environmental Protection on behalf of Cape May County for expedited authorization under State regulations pursuant to Administrative Order 2012-13, which helps public entities advance certain emergency repairs to public infrastructure that are a result of Hurricane Sandy.

##### **NEPA Categorical Exclusion Documentation (FHWA) for River Road Improvements Initiative-Truck Management Study, City of Camden and Township of Pennsauken, Camden County, NJ**

*Client(s):* Cooper's Ferry Development Assoc./Traffic Planning and Design, Inc.

*Contact:* Ms. Deanna Drumm, PE, (856) 966-4242, *email:* [ddrumm@trafficpd.com](mailto:ddrumm@trafficpd.com)

*Contract:* N/A; *Period of Performance:* September 2012 – February 2013

Project Manager responsible for completing required fieldwork, wetland delineation, data collection, threatened and endangered species review, and technical research relative to preparation of a Categorical Exclusion Document (CED) for the proposed roadway improvements project pursuant to the Federal Highway Authority (FHWA) NEPA requirements. Mr. Chabrak also incorporated technical information completed by other consultants into the CED. Mr. Chabrak provided the client with guidance relative to potential applicability of State and Federal permit requirements.

**Preliminary Environmental Screening for LaGuardia Airport Terminal Redevelopment Plan, City of New York, Queens County, NY**

*Client(s):* The Port Authority of NY & NJ/AECOM

*Contact:* Mr. Bryan Oscarson, (215) 399-4300, *email:* [bryan.oscarson@aecom.com](mailto:bryan.oscarson@aecom.com)

*Contract:* N/A; *Period of Performance:* February 2012 – Present

Environmental Scientist responsible for conducting onsite field visit of the entire airport facility to gather and obtain necessary information and documentation for inclusion into a Preliminary Environmental Screening relative to the East End Substation project and the Central Terminal Building Modernization Project. Mr. Chabrak also worked on the preparation of the Preliminary Environmental Screening Report.

**Environmental Assessment (EO 215) for Improvements to Alexander Hamilton Service Area, Town of Secaucus, Hudson County, NJ**

*Client(s):* NJ Turnpike Authority/Hatch Mott MacDonald

*Contact:* Mr. Michael Kling, (973) 912-7535, *email:* [Michael.Kling@hatchmott.com](mailto:Michael.Kling@hatchmott.com)

*Contract:* OPS A3232; Contract T200.290; *Period of Performance:* April 2012 – Present

Project Manager responsible for conducting the wetlands and waters delineation under Federal jurisdiction due to their location within the New Jersey Meadowlands District. Mr. Chabrak was also responsible for gathering and obtaining required field information and documentation for inclusion into an Executive Order 215 (EO 215) Report. Mr. Chabrak also prepared the EO 215 Report and the wetlands permit applications required pursuant to Section 404 of the Federal Clean Water Act.

**Natural Resource Screening and Sections of SEQRA Draft Environmental Impact Statement for Little Tor Electrical Substation, Town of Clarkstown, Rockland County, NY**

*Client(s):* Orange & Rockland Utilities, Inc.

*Contact:* Ms. Gwen Keeble, (845) 577-3534, *email:* [keebleg@oru.com](mailto:keebleg@oru.com)

*Contract:* N/A; *Period of Performance:* June 2007 – June 2011

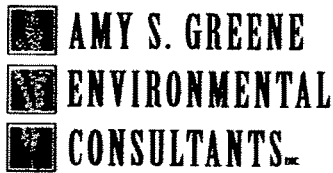
Project Manager responsible for conducting initial natural resource screening and constraints analysis for the site of a proposed electrical substation. Mr. Chabrak then completed the jurisdictional wetland delineation and obtained a Jurisdictional Determination from the US Army Corps of Engineers. Mr. Chabrak also prepared the natural resource sections of the Draft Environmental Impact Statement pursuant to the requirements of the *State Environmental Quality Review Act* (SEQRA). Mr. Chabrak was also responsible for preparing and submitting an application for approval under Article 11 Protected Species from the NY State Department of Environmental Conservation, as well as written concurrence of no adverse impact from the US Fish and Wildlife Service under Section 10 of the *Endangered Species Act*.

**COMPUTER SKILLS**

Microsoft Word, Excel, PowerPoint, GPS, GIS

**U.S. CITIZEN/FOREIGN STATUS**

U.S. Citizen



**AMY S. GREENE**

**ENVIRONMENTAL**

**CONSULTANTS**

**J. MAXWELL DEVANE**

*Field Professional/Senior Biologist*

**EDUCATION**

M.S., Environmental Education, Lesley University, 1991  
B.S., Biology, Saint Andrews Presbyterian College, 1987

**PROFESSIONAL CERTIFICATIONS**

Wetland Delineator Program, Rutgers University, Cook College, 2003  
40-Hour OSHA HAZWOPER, 2003  
OSHA HAZWOPER 8-Hour Refresher, 2004-2013

**RELEVANT EXPERIENCE**

**Technical Environmental Studies in Support of NEPA Categorical Exclusion Documentation (FHWA) for Route 54/Route 322 to Cape May Point Branch, Borough of Folsom, Atlantic County, NJ**

*Client(s):* NJDOT/Arora and Associates, PC

*Contact:* Mr. Michael Wright, PE, (609) 844-1111, *email:* [mwright@arorapc.com](mailto:mwright@arorapc.com)

*Contract:* 2003PM18, Fed Project BRM MGS-0013 (114); *Period of Performance:* October 2003 to Present

Environmental Scientist responsible for delineating wetlands through analysis of flora, hydrology, and soils in accordance with NJDEP requirements under the *NJ Freshwater Wetlands Protection Act*. Identified anticipated environmental permitting requirements. Prepared Technical Environmental Study (TES) in support of Categorical Exclusion Documentation (CED) in accordance with FHWA NEPA requirements. Currently performing Final Design tasks including endangered and threatened species surveys and preparation of applications for NJDEP and NJ Pinelands Commission approvals.

**NEPA Categorical Exclusion Documentation (FHWA) for Route 9 over Westecunk Creek, Township of Eagleswood, Ocean County, NJ**

*Client(s):* NJDOT/Greenman-Pedersen, Inc.

*Contact:* Mr. Gregory Johnson, PE, (908) 236-9001, *email:* [gjohnson@gpinet.com](mailto:gjohnson@gpinet.com)

*Contract:* 2003PM21; *Period of Performance:* July 2004 to June 2006

Environmental Scientist responsible for delineating wetlands and writing wetland delineation report in preparation for permit application. Prepared Categorical Exclusion Documentation in accordance with NJDOT Procedures Manual and FHWA NEPA requirements.

**NEPA Categorical Exclusion Documentation (FHWA) for Route 4 over Palisade Avenue Bridge Replacement. Township of Teaneck, Bergen County, NJ**

*Client(s):* NJDOT

*Contact:* Ms. Amy Polachak, (609) 530-5353, *email:* [amy.polachak@dot.state.nj.us](mailto:amy.polachak@dot.state.nj.us)

*Contract:* 2008ER687A, Contract ID 08-20001; *Period of Performance:* September 2009 to April 2011

Project Manager responsible for overseeing project including the delineation of wetlands and field evaluation of potential impacts to ecological resources within the project area. Resources evaluated include wetlands, surface water, groundwater, endangered and threatened species habitat, vegetation and wildlife, acid producing soils, and floodplains. The results of the field investigation were included in the *Ecology* section of the NEPA Categorical Exclusion Document (CED). Also prepared other sections of the CED, including *Environmental Permits/Coordination Needed*, *Environmental Justice*, *Air Quality and Noise*, *Socioeconomic Resources* and *Section 4(f)-Recreational Lands*.

**NEPA Categorical Exclusion Documentation (FHWA) for Rehabilitation of Burlington County Bridge CR 670. Springfield Township, Burlington County, NJ**

*Client(s):* Delaware Valley Regional Planning Commission/Stantec Consulting Services, Inc.

*Contact:* Mr. Wayne Faulkner, P.E., (856) 234-0800, *email:* [wayne.faulkner@stantec.com](mailto:wayne.faulkner@stantec.com)

*Contract:* N/A; *Period of Performance:* November 2006 to December 2009

Environmental Scientist responsible for preparation of Categorical Exclusion Document in accordance with FHWA NEPA regulations. Prepared Freshwater Wetlands Permit application in accordance with the *NJ Freshwater Wetlands Protection Act* and Individual Permit application in accordance with the *NJ Flood Hazard Area Control Act*.



**Level III Environmental Information Document (NJDEP) for ASR Well TW-1. Atlantic City, Atlantic County, NJ**

*Client(s):* Atlantic City Municipal Utilities Authority/Hazen and Sawyer

*Contact:* Mr. Mark Bottin, (215) 592-0600, *email:* [mbottin@hazenandsawyer.com](mailto:mbottin@hazenandsawyer.com)

*Contract:* N/A; *Period of Performance:* August 2009 – September 2009

Project Manager responsible for performing the Environmental Screening fieldwork, including the delineation of freshwater wetlands through analysis of flora, hydrology, and soils in accordance with NJDEP requirements under the *NJ Freshwater Wetlands Protection Act* and in accordance with the Army Corps of Engineers Wetlands Delineation Manual methodology. Wrote Level III Environmental Information Document, including incorporation and interpretation of Study was performed in accordance with NJAC 7:22, Subchapter 10 Environmental Assessment Requirements for State Assisted Environmental Infrastructure Facilities.

**NEPA Categorical Exclusion Documentation (FHWA) for Stony Brook Regional Bicycle and Pedestrian Pathway and Bridge, Princeton Township, Mercer County, NJ**

*Client(s):* NJDOT Local Aid/Princeton Township/French & Parrello Associates, P.A.

*Contact:* Mr. Tony Sabidussi, (609) 530-2989, *email:* [tony.sabidussi@dot.gov](mailto:tony.sabidussi@dot.gov)

*Contract:* N/A; *Period of Performance:* May 2007 – August 2008

Environmental Scientist responsible for compiling Categorical Exclusion Documentation in accordance with NJDOT Procedures Manual and FHWA NEPA requirements. Performed wetland delineation and habitat assessment for barred owl. Assisted with environmental permit process and attended NJDOT Local Aid meeting to ensure project funding consistencies.

**Environmental Screening for Easton Avenue Corridor Plan, Bound Brook, South Bound Brook and Franklin Township, Somerset and City of New Brunswick, Middlesex Counties, NJ**

*Client(s):* Somerset County/Orth-Rodgers & Associates, Inc.

*Contact:* Mr. Brian Stankus, (609) 530-0888, *email:* [bstankus@orth-rodgers.com](mailto:bstankus@orth-rodgers.com)

*Contract:* XS-2009-18; *Period of Performance:* September 2009 – January 2011

Project Manager responsible for performance of an Environmental Screening using existing GIS mapping and preparation of an Environmental Screening Report to assist in the development of alternative project plans for proposed improvements, including intersection upgrades and sidewalk construction.

**Environmental Screening for I-78/Route 31 Corridor Study, Town of Clinton, Clinton Township, Lebanon Borough, Hunterdon County, NJ**

*Client(s):* NJDOT/Orth-Rodgers & Associates, Inc.

*Contact:* Laine Rankin, (609) 530-6539, *email:* [laine.rankin@dot.state.nj.us](mailto:laine.rankin@dot.state.nj.us)

*Contract:* 99BMS07; *Period of Performance:* January 2003 to April 2004

Environmental Scientist responsible for performance of Environmental Screening in accordance with NJDOT Procedures Manual. The study included documentation of environmental resources and identification of potentially hazardous materials. Performed preliminary wetland investigation and researched records regarding the potential for presence of hazardous waste contamination in the project area. Prepared report detailing those findings to assist in analysis of options to address traffic safety concerns.

**Route 36 Highlands Bridge over Shrewsbury River, Highlands and Sea Bright Boroughs, Monmouth County, NJ**

*Clients:* NJDOT/Jacobs Engineering

*Contact:* Ms. Lynne Baumann, P.E., Jacobs Engineering, (732) 452-9200, *email:* [lynne.baumann@jacobs.com](mailto:lynne.baumann@jacobs.com)

*Contract:* 2003PM20, Fed Project BRM 7165(116); *Period of Performance:* October 2005- December 2005

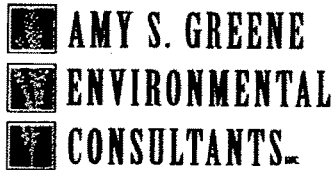
Environmental Scientist responsible for delineating wetlands in preparation for NJDEP and USACE permit application preparation for the reconstruction of the Route 36 Highlands Bridge. Services were performed in accordance with the NJDOT Procedures Manual and Capital Projects Delivery Process.

**COMPUTER SKILLS**

Microsoft Word, Excel, PowerPoint

**U.S. CITIZEN/FOREIGN STATUS**

U.S. Citizen



**AMY S. GREENE, PWS**  
*Task Manager*

#### **EDUCATION**

M.S., Ecology, Rutgers University, 1984  
B.A., Biology, Boston University, 1974

#### **PROFESSIONAL CERTIFICATIONS**

USACE Certified Wetland Delineator, 1994  
Society of Wetland Scientists, Certified Professional Wetland Scientist, 1995  
Ecological Society of America, Certified Senior Ecologist, 1995  
NJDEP Bureau of Discharge Prevention, Certified Ecologist/Ornithologist, 1992  
OSHA Certified Health & Safety Training (HAZWOPER), 1991  
USOSHA HAZWOPER 8-Hour Refresher: 2004 - 2013

#### **RELEVANT PROJECT EXPERIENCE**

##### **Wetland Delineation, NEPA Categorical Exclusion Documentation (FHWA) and Environmental Permitting for Route 1 Pedestrian Bridge, Lawrence Township, Mercer County, NJ**

*Client(s):* NJDOT/Arora & Associates, PC

*Contact:* Mr. Narendra Khambhati, PE, (609) 844-1111, *email:* [nkhambhati@arorapc.com](mailto:nkhambhati@arorapc.com)

*Contract:* 99PM36; *Period of Performance:* May 2000 – January 2002

This award-winning project involved construction of a pedestrian bridge over Route 1 to connect portions of the Delaware and Raritan Canal. Principal in charge of a wetland delineation, preparation of an alternatives analysis, compilation of the Categorical Exclusion Documentation (CED) including preparation of the Ecology and Permits and Environmental Permits/Coordination sections. All work was performed in accordance with NJDOT Design Manual Procedures and FHWA NEPA regulations. Successful permit applications for a NJDEP Freshwater Wetlands Transition Area Waiver for Linear Development and Minor Stream Encroachment Permit were also prepared. The project has been constructed.

##### **Natural Resources Sections of NEPA Categorical Exclusion Documentation (FHWA) for Mill Creek and Upper Thorofare Bridges, Lower Township, Cape May County, NJ**

*Client(s):* South Jersey Transportation Planning Organization/Parsons Brinckerhoff

*Contact:* Mr. Joseph Mumber, (609) 512-3500, *email:* [mumber@pbworld.com](mailto:mumber@pbworld.com)

*Contract:* N/A; *Period of Performance:* November 1999 – June 2006

Principal in charge of the performance of an inventory of natural resources, wetland delineation, assistance with alternatives analysis and preparation of the Ecology and Permits sections of the Categorical Exclusion Documentation (CED). Performed environmental evaluation of alternatives including an assessment of impacts associated with ecology, water quality, floodplains, wetlands, vegetation, wildlife, endangered and threatened species, and identification of permitting requirements, including USACE, NJDEP and USCG approvals. Services followed NJDOT Design Manual procedures and FHWA NEPA requirements.

##### **NEPA Environmental Assessment (FHWA) and Environmental Permitting for Rehabilitation of County Bridge No. E0801 at Nevius Street and Construction of a New County Bridge Crossing of the Raritan River between Raritan Borough and Hillsborough Township, Somerset County, NJ**

*Client(s):* Somerset County/Keller & Kirkpatrick

*Contact:* Mr. Donald Scott, (973) 377-8500, *email:* [dscott@kellkirk.com](mailto:dscott@kellkirk.com)

*Contract:* N/A; *Period of Performance:* July 1998 – March 2003

Principal responsible for performance of a wetland delineation in the vicinity of the existing bridge and the proposed replacement alignment; preparation of an Environmental Assessment (EA); and preparation of a wetland permit application to NJDEP. The EA was prepared in accordance with USDOT/Federal Highway Administration (FHWA) NEPA regulations. Due to the new alignment and potential effects on parklands and historic resources, the project could not qualify for a CED. The EA included a Section 4(f) analysis to address project impacts to parkland and historic resources. Close coordination with our subconsultants and the project team was required. The project also included preparation and submission of an application to NJDEP for Wetlands General Permits #1 and #10A to authorize the Nevius Street Bridge rehabilitation for pedestrian use and the new bridge crossing for vehicular use.

**NEPA Categorical Exclusion Documentation (FHWA) and Environmental Permitting for Pohatcong Lake Dam/Route 9 Rehabilitation, Tuckerton Borough, Ocean County, NJ**

*Client(s):* NJDOT/Taylor Wiseman & Taylor

*Contact:* Mr. Gary Johnson, PE, (856) 235-7200, *email:* [gjohnson@taylorwiseman.com](mailto:gjohnson@taylorwiseman.com)

*Contract:* 2004PM484B; *Period of Performance:* February 2005 – October 2010

Principal in charge of the preparation of Categorical Exclusion Documentation in accordance with NJDOT Procedures Manual and FHWA NEPA requirements. A review of existing data sources was conducted for the project area, including County Soil Surveys, USGS topographical maps, and NJDEP freshwater wetlands maps. A detailed wetland delineation was performed. Coordinated with the NJDEP Natural Heritage Program, the U.S. Fish and Wildlife Service, and the National Marine Fisheries Service to identify possible endangered or threatened plant or animal species and access data on essential fish habitat within or adjacent to the proposed project area. A Technical Environmental Study was prepared, which described the existing ecological and sociological conditions of the project area and evaluated possible project-related impacts. The results of the wetland investigation and agency consultation were incorporated into the TES. The Environmental Justice and Socio-economic sections of the CED were prepared, probable State and Federal permitting requirements were identified and assistance provided to NJDOT with addressing Section 4(f) parkland issues. FHWA concurred with the Categorical Exclusion classification for the project. The results of the wetland delineation and agency coordination were utilized to prepare the NJDEP and U.S. Army Corps permit applications. Successful applications were prepared for a NJDEP Freshwater Wetlands General Permit #18 for Dam repair, Waterfront Development Permit and Coastal Wetlands Individual Permits and a USACE 404/10 Nationwide Wetland #23 Permit for project-related impacts to jurisdictional resources.

**NEPA Categorical Exclusion Documentation (FTA) for Trenton Rail Station Rehabilitation, Phase II, City of Trenton, Mercer County, NJ**

*Client(s):* NJ Transit/diDomenico+Partners, LLP

*Contact:* Mr. Andrew Berger, (212) 337-0400, *email:* [aberger@ddp-ny.com](mailto:aberger@ddp-ny.com)

*Contract:* N/A; *Period of Performance:* September 1999 – November 2002

Principal responsible for preparation of Categorical Exclusion Documentation (CED) for the proposed rehabilitation of the Trenton Rail Station. The CED was prepared in accordance with FTA NEPA requirements. Preparation of the CED involved evaluation of potential environmental impacts of the station building and parking area improvements and associated roadway modifications. An evaluation of impacts to biotic communities, wetlands, and floodplains was performed. Close coordination with subconsultants for the preparation of the hazardous waste, air, noise, Section 106 historic resources and archaeological resources analysis was required. ASGECI also coordinated with other contractors to dDP on issues related to traffic, parking and construction impacts. Analysis of project compliance with E.O. 12998 on Environmental Justice was also performed.

**NEPA Categorical Exclusion Documentation (FHWA) and Environmental Permitting for Route 70 Bispham's Mill Creek Bridge Replacement Project, Pemberton and Woodland Townships, Burlington County, NJ**

*Client(s):* NJDOT/Stantec Consulting Services

*Contact:* Mr. Wayne Faulkner, PE, (856) 234-0800, *email:* [wayne.faulkner@stantec.com](mailto:wayne.faulkner@stantec.com)

*Contract:* N/A; *Period of Performance:* December 2001 – June 2004

Principal responsible for wetland/open water delineation; preparation of the Ecology and Permits and Section 4(f)-Recreational Land sections of the Categorical Exclusion Documentation (CED); oversight of preparation of the Noise, Air Quality, Hazardous Materials and Landfill, and Cultural Resources sections of the CED; coordination with the project hydrologic engineer; and compilation of the CED. Field surveys for a state listed threatened damselfly and Federal, State- and NJ Pinelands Commission-listed plant species, including swamp pink, were also performed in the project study area. Applications were prepared and submitted to the NJ Pinelands Commission for Public Development Approval and Wetlands General Permit #10A in accordance with the Pinelands Comprehensive Management Plan and the NJ Freshwater Wetlands Protection Act. All work was performed in accordance with NJDOT Design Manual Procedures and FHWA NEPA regulations.

**PUBLICATIONS**

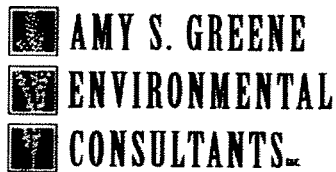
Contributing author Chapter 12, *Wetlands*, in the *Environmental Permitting Handbook*, A. Roger Greenway, Editor-in-Chief, published by The McGraw-Hill Companies, Inc., 2000.

**COMPUTER SKILLS**

Microsoft Word, Excel, PowerPoint

**U.S. CITIZEN/FOREIGN STATUS**

U.S. Citizen



**AMY S. GREENE**  
**ENVIRONMENTAL**  
**CONSULTANTS**

**JENNIFER LASTELLA**  
*Field Professional/Senior Biologist*

#### **EDUCATION**

B.S., Animal Biotechnology and Conservation, Delaware Valley College, 2005

#### **PROFESSIONAL CERTIFICATIONS**

Certified Wetland Delineator, Rutgers State University, Cook College, 2007

OSHA Site Safety Officer, 8-Hour, 2006

USEPA Hazardous Materials Incident Response Operations Training Course, 40-Hour, 2005

OSHA 8-Hour HAZWOPER Refresher, 2006 - 2013

#### **RELEVANT EXPERIENCE**

##### **Comprehensive Conservation Plan and NEPA Environmental Assessment (USDI) for Great Swamp National Wildlife Refuge, Townships of Chatham, Harding, and Long Hill, Morris County, NJ**

*Client(s):* US Fish and Wildlife Service, Region 5/General Services Administration

*Contact:* Mr. William Koch, (973) 425-1222, *email:* [bill\\_koch@fws.gov](mailto:bill_koch@fws.gov)

*Contract:* GS-10-F-0002T, Order 50181AX135; *Period of Performance:* September 2010 – Present

Project Manager responsible for assisting with the preparation of a Comprehensive Conservation Plan (CCP) and National Environmental Policy Act (NEPA) Environmental Assessment (EA) for the Great Swamp National Wildlife Refuge in accordance with National Wildlife Refuge System Act of 1966 (16 U.S.C. 668dd-668ee), as amended by the National Wildlife Refuge System Improvement Act of 1997 (Pub. L 105-57; 11 Stat.1253; Refuge Improvement Act). Assisted USFWS staff with the coordination and organization of a two-day Alternatives Workshop at Great Swamp NWR. Prepared the CCP including a description of the Great Swamp NWR; including history, wildlife and habitats, geology, regional context, resources of concerns, and development of management goals and objectives to protect and enhance these resources and facilitate public enjoyment for the next 15 years. Also evaluated and developed various management alternatives and strategies, including wildlife and habitat management, visitor services programs and opportunities, and ecological studies, as well as assessing potential environmental consequences that may occur as a result of implementing each management alternative.

##### **NEPA Categorical Exclusion Documentation (FHWA) for Davenport Street Extension Scoping Phase, Somerville Borough, Somerset County, NJ**

*Client(s):* Somerset County/Keller & Kirkpatrick

*Contact:* Mr. Jonathan Pera, (973) 377-8500, *email:* [jpera@kellkirk.com](mailto:jpera@kellkirk.com)

*Contract:* N/A; *Period of Performance:* January 2007 – October 2010

Environmental Scientist assisting with wetlands delineation and preparation of a Wetland Delineation Report and Categorical Exclusion Documentation in accordance with FHWA NEPA requirements.

##### **NEPA Environmental Assessment (FTA) for Pennsauken Transfer Station Study, Pennsauken Township, Camden County, NJ**

*Client(s):* NJ Transit/Christopher P. Statile, P.A.

*Contact:* Mr. Joel Minch, (201) 337-7470, *email:* [cpstatile@aol.com](mailto:cpstatile@aol.com)

*Contract:* N/A; *Period of Performance:* July 2007 – May 2009

Environmental Scientist assisting with wetlands delineation and responsible for the preparation of an application for NJDEP Letter of Interpretation, Presence/Absence Determination – Footprint of Disturbance. Also responsible for the preparation of an Environmental Assessment in accordance with FTA NEPA requirements for a new rail station and commuter parking lot.

##### **Wetland Delineation and Endangered and Threatened Species Survey in Support of NEPA Categorical Exclusion Documentation (FHWA) for I-78 and Edna Mahan Frontage Road, Clinton, Franklin and Union Townships, Hunterdon County, NJ**

*Client(s):* NJDOT/Gannett Fleming, Inc.

*Contact:* Mr. James Dzedziak, (908) 755-0040, *email:* [jdzedziak@gfnet.com](mailto:jdzedziak@gfnet.com)

*Contract:* 2008PM670; *Period of Performance:* April 2008 to April 2010

Environmental Scientist assisting with Phase II Bog Turtle visual surveys of wetlands adjacent to Route 78, which will be undergoing road repairs and improvements. These surveys were conducted in accordance with USFWS guidelines. The USFWS required these assessments to determine whether the proposed scour countermeasures would have a negative impact on the bog turtle or its habitat. Services were performed in accordance with the NJDOT Procedures Manual and Capital Projects Delivery

Process. Senior Environmental Scientist assisting with the delineation of wetlands and State open waters within the study area for inclusion in a Categorical Exclusion Document in accordance with FHWA NEPA requirements.

**NEPA Categorical Exclusion Documentation (FHWA) for State Route 130 Safety & Operational Improvements, Salem Road & Keim Boulevard, City of Burlington, Burlington County, NJ**

*Client(s):* NJDOT/Taylor Wiseman & Taylor

*Contact:* Mr. Bruce Easterly, (856) 235-7200, *email:* [easterly@taylorwiseman.com](mailto:easterly@taylorwiseman.com)

*Contract:* 2009DPD741E; *Period of Performance:* June 2009 – July 2009

Senior Environmental Scientist assisting with the evaluation of potential impacts to ecological resources within the project area. Resources evaluated include wetlands, surface water, groundwater, endangered and threatened species habitat, vegetation and wildlife, acid producing soils, and floodplains. The results of the field investigation were included in the *Ecology* Section of the Categorical Exclusion Document (CED). Also provided oversight on the preparation of other sections of the CED, including *Environmental Permits/Coordination Needed, Environmental Justice, Air Quality and Noise, Socioeconomic Resources* and *Section 4(f)-Recreational Lands*.

**Environmental Screenings for Garden State Parkway Northern Interchange Improvements Study / Interchanges 127 - 168, Middlesex, Union, Essex, Passaic & Bergen Counties, NJ**

*Client(s):* NJ Turnpike Authority/Stantec Consulting Services

*Contact:* Mr. Jeffrey Smithline, (201) 587-9040, *email:* [jsmithline@stantec.com](mailto:jsmithline@stantec.com)

*Contract:* OPS P3086; *Period of Performance:* June 2007 – January 2008

Environmental Scientist assisting with field investigations and responsible for the preparation of Environmental Screening Reports for improvements to GSP Northern Interchanges. Resources investigated include wetlands, floodplains, streams, forested areas, cultural resources, and threatened/endangered (T&E) species or potential T&E habitat.

**Endangered Species Survey as part of USFWS Section 7 Consultation as required for NEPA Categorical Exclusion Documentation (FHWA) for County Route 571 Realignment at Francis Mills, Township of Jackson, Ocean County, NJ**

*Client(s):* Ocean County/Stantec Consulting Services, Inc.

*Contact:* Mr. Michael O'Donnell, PE, (856) 234-0800, *email:* [michael.odonnell@stantec.com](mailto:michael.odonnell@stantec.com)

*Contract:* N/A; *Period of Performance:* April 2010 – Present

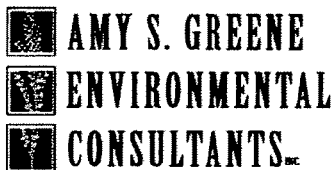
Senior Environmental Scientist assisting with Phase II visual survey for Federally-threatened, State-endangered bog turtle (*Glyptemys (Clemmys) muhlenbergii*). The survey was performed in wetlands adjacent to County Route 571, proposed for realignment. These surveys were conducted in accordance with USFWS guidelines as part of Section 7 consultation under the Federal Endangered Species Act and required for the FHWA NEPA Categorical Exclusion Documentation as well as the NJDEP Freshwater Wetlands Permit application. The USFWS required these assessments to determine whether the proposed realignment project would have an adverse impact on the bog turtle or its habitat. Also assisted with setting up traps for Phase III Bog Turtle Trapping, including drift nets, funnel traps, and individual traps. No bog turtles were found; however, Ms. LaStella captured and identified Eastern box turtle (*Terrapene carolina carolina*) during Phase II visual surveys. Also assisted with conducting a tree survey of trees greater than 5" Diameter at Breast Height (DBH). The trees were inventoried and located with a Trimble GPS in order to obtain data for the NJDEP Flood Hazard Area Individual Permit for activities in a riparian zone.

**COMPUTER SKILLS**

Microsoft Word, Excel, PowerPoint, Trimble GPS

**U.S. CITIZEN/FOREIGN STATUS**

U.S. Citizen



**HARRY STRANO**  
*Field Professional/Senior Biologist*

#### **EDUCATION**

B.S., Natural Resource Management, Rutgers University, 1999  
B.A., Communications, Rowan University, 1994

#### **PROFESSIONAL CERTIFICATIONS**

Recognized Qualified Bog Turtle Surveyor, New Jersey, Pennsylvania (USFWS), New York (USFWS/HHRU), and Maryland (USFWS/MD DNR)

#### **RELEVANT EXPERIENCE**

##### **Comprehensive Conservation Plan and NEPA Environmental Assessment for Great Swamp National Wildlife Refuge, Long Hill, Harding and Chatham Townships, Morris County NJ**

*Client(s):* General Services Administration/US Fish and Wildlife Service

*Contact:* Mr. William Koch, (973) 425-1222, *email:* [bill\\_koch@fws.gov](mailto:bill_koch@fws.gov)

*Contract:* GS-10F-0002T; Order 50181AX135; *Period of Performance:* September 2010 – Present

Project Manager/Senior Environmental Scientist responsible for assisting with the development and writing of a Comprehensive Conservation Plan (CCP) and NEPA Environmental Assessment for the Refuge. Responsibilities include developing goals objectives and strategies for the refuge for both public use and wildlife management. The goals objectives and strategies determine refuge direction for the next 15 years. Responsible for assisting in the research and development of various public use and management alternatives and analyzing their feasibility at the refuge. Assisted in the coordination and communication with resource experts, the public, and refuge and regional USFWS staff.

##### **Revision to Integrated Natural Resource Management Plan and NEPA Environmental Assessment (DoD) for National Guard Joint Training Center, Borough of Sea Girt, Monmouth County, NJ**

*Client(s):* NJ Department of Military and Veterans Affairs/AECOM

*Contact:* Mr. William McBride, (609) 530-7136, *email:* [William.McBride@njdmava.state.nj.us](mailto:William.McBride@njdmava.state.nj.us)

*Contract:* Project SG114; *Period of Performance:* October 2011 – Present

Project Manager/Senior Environmental Scientist responsible for assisting with the revision of the facility's Integrated Natural Resource Management Plan (INRMP). The INRMP provides management guidelines for facility resources including the Federally threatened piping plover and seabeach amaranth, other State-listed species, vegetation communities, and wetlands. Incorporated onsite survey and vegetation data collected by ASGECI under Mr. Strano's direction under a separate contract between 2007 and 2011 into the plan. Reviewed and edited endangered species management and regulation language in the document. Prepared an invasive species section for the plan.

##### **NEPA Categorical Exclusion Documentation (FTA) for Garfield Train Station Accessibility Improvement Project, Garfield Township, Bergen County, NJ**

*Client(s):* NJ Transit/Hatch Mott MacDonald

*Contact:* Ms. Jennifer Kohlsaar, (973) 912-2475, *email:* [jennifer.kohlsaar@hatchmott.com](mailto:jennifer.kohlsaar@hatchmott.com)

*Contract:* 03-054B; *Period of Performance:* January 2006 – September 2006

Environmental Scientist responsible for the preparation of a Categorical Exclusion Document in accordance with FTA NEPA requirements on behalf of NJ Transit for the Federal Transportation Administration as part of a Garfield Train Station accessibility improvement project. Evaluated onsite conditions and assessed impacts of the project on environmental resources.

##### **Wetlands and Endangered Species Studies and NEPA Categorical Exclusion Documentation (FHWA) for Hunterdon County Bridge RQ-179 over the South Branch Raritan River, Readington and Raritan Townships, Hunterdon County, NJ**

*Client(s):* Hunterdon County Engineering Department/French & Parrello Associates, P.A.

*Contact:* Mr. Robert McGowan, PE (732) 312-9800, *email:* [robert.mcgowan@fpaengineers.com](mailto:robert.mcgowan@fpaengineers.com)

*Contract:* N/A; *Period of Performance:* February 2006 to September 2009

Environmental Scientist responsible for the preparation of a NJDEP Wetlands Regulatory Line Verification Letter of Interpretation Application, threatened and endangered species and cursory vernal habitat evaluation and preliminary environmental report of findings. Responsible for assisting in the preparation of a detailed ecological impact alternative analysis based on findings; and assisting with the preparation of a Categorical Exclusion Document (CED) for the proposed improvements. County Bridge RQ-179 is a one lane single span metal through truss bridge constructed in 1880 and was determined to be eligible for listing in the National Register of Historic Structures. The NJ Natural Heritage Program and U.S. Fish & Wildlife Service indicated the potential presence for the threatened and endangered species, and suitable habitat for such

species within and within one mile of the project area. The approach roads were bordered by jurisdictional forested and emergent wetlands and the bridge spanned a portion of the South Branch of the Raritan River classified as a trout-maintenance water. The bridge rehabilitation addressed a number of safety concerns and deficiencies associated with the structure itself as the bridge was considered both structurally and functionally obsolete.

**Multiple NEPA Environmental Assessments (FCC) for Cingular Wireless for Proposed Cellular Tower Projects, Somerset and Monmouth Counties, NJ**

*Client(s):* Cingular Wireless/EBI Consulting

*Contact:* Mr. Steven Davies, (215) 237-8551, *email:* [sdavies@ebiconsultants.com](mailto:sdavies@ebiconsultants.com)

*Contract:* N/A; *Period of Performance:* January 2005 – April 2006

Environmental Scientist responsible for the preparation of multiple Environmental Assessment documents to fulfill Federal Communications Commission (FCC) requirements in accordance with NEPA requirements. Assessed site ecological conditions, evaluated potential impacts and prepared written reports for submission to the FCC. Also performed wetland delineations and prepared Regulatory Line Verification Letter of Interpretation applications for two sites.

**Wetland Delineation and Environmental Assessment (EO 215) for NJ Turnpike Interchanges 15W and 16W, Town of Kearny Borough of East Rutherford, Hudson and Bergen Counties, NJ**

*Client(s):* NJ Turnpike Authority/T.Y. Lin International

*Contact:* Mr. James Lester, (609) 838-6425, *email:* [james.lester@tylin.com](mailto:james.lester@tylin.com)

*Contract:* OPS T3260; *Period of Performance:* January 2010 – Present

Environmental Scientist responsible for assisting in a detailed wetland delineation of freshwater and brackish wetlands within the interchange project areas associated with improvements to the two interchanges. Assisted in the preparation of an EO 215 Environmental Assessment (EA) for interchange 16W. Provided information on natural resources onsite including potential endangered and threatened species habitat and wetlands.

**Update to Species Management Plan for 50-Mile Garden State Parkway Widening Interchanges 30-80, Atlantic, Burlington and Ocean Counties, NJ**

*Client(s):* NJ Turnpike Authority/T&M Associates

*Contact:* Mr. Kristopher Krzyston, (732) 671-6400, *email:* [kkrzyston@tandmassociates.com](mailto:kkrzyston@tandmassociates.com)

*Contract:* 133-572D; *Period of Performance:* July 2006 to November 2008

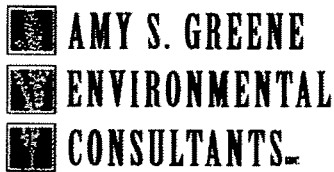
Environmental Scientist responsible for updating the Species Management Plan for 15 endangered and threatened species identified within the 50 mile long project area. Assessed potential impacts to endangered and threatened species habitat and prepared habitat management recommendations, which were incorporated into project design and implemented during construction. Presented plan and findings to US Fish and Wildlife Service (USFWS), NJ Department of Environmental Protection (NJDEP), US Army Corps of Engineers, NJ Pinelands Commission (NJPC) and other participating agencies. The Management Plan facilitated the development of a Memorandum of Agreement (MOA) between the NJ Turnpike Authority, USFWS, NJDEP, the NJPC and other agency stakeholders. Obtained USFWS approval under Section 7 of the *Endangered Species Act*. The study was subsequently used by Pepco to obtain NJ Pinelands Commission approval for construction of a new electric transmission line parallel to the Parkway.

**COMPUTER SKILLS**

Microsoft Word, Excel, PowerPoint, GIS, GPS

**U.S. CITIZEN/FOREIGN STATUS**

U.S. Citizen



**AMY S. GREENE**

**ENVIRONMENTAL**

**CONSULTANTS.**

**SUSAN C. QUACKENBUSH, PWS**

*Field Manager*

**EDUCATION**

B.S., Marine Science, Coastal Carolina University, 2000

**PROFESSIONAL CERTIFICATIONS**

Professional Wetland Scientist #2158

National Peace Corps Association

**RELEVANT EXPERIENCE**

**NEPA Categorical Exclusion Documentation (FHWA) for Chapel Avenue Bridge (CR 626) over New Jersey Transit Atlantic City Line and Maple Avenue Bridge (CR 537) over New Jersey Transit Atlantic City Line, Cherry Hill and Pennsauken Townships, Camden County, NJ**

*Client(s):* NJDOT/Taylor Wiseman & Taylor

*Contact:* Mr. Gary Johnson, PE, (856) 235-7200, *email:* [garyjohnson@taylorwiseman.com](mailto:garyjohnson@taylorwiseman.com)

*Contract:* 2002PM54; *Period of Performance:* April 2003 to March 2007

Environmental Scientist responsible for delineating wetlands through field analysis of flora, hydrology and soils. Prepared detailed Wetland Delineation Report for inclusion in NJDEP freshwater wetland permit application. Prepared Ecology and Permits, Permits/Coordination Needed, Programmatic 4(f)-Recreational Land, Socioeconomic and Environmental Justice sections of the Categorical Exclusion Document. Compiled Categorical Exclusion Document in compliance with FHWA NEPA requirements.

**Ecology and Permits Technical Environmental Studies for NEPA Categorical Exclusion Documentation (FHWA) for I-80/I-287 & Route I-80/Route 202 Interchange Improvements, Parsippany – Troy Hills Township, Morris County, NJ**

*Client(s):* NJDOT/Dewberry Goodkind, Inc.

*Contact:* Mr. Craig Johnson, PE (973) 338-9100, *email:* [cjohnson@dewberry.com](mailto:cjohnson@dewberry.com)

*Contract:* 2002PM30; *Period of Performance:* July 2003 to November 2006

Environmental Scientist responsible for delineating wetlands through field analysis of flora, hydrology and soils and preparation of detailed Wetland Delineation Report. Prepared the Ecology and Permits and Environmental Permits/Coordination Needed sections of the Categorical Exclusion Documentation in accordance with FHWA NEPA requirements. Conducted an evaluation of the project's potential inclusion in the NJDOT Hyperbuild program.

**NEPA Categorical Exclusion Documentation (FTA) for Garfield Station Accessibility Improvements - Bergen County Line, Garfield City, Bergen County, NJ**

*Client(s):* NJ Transit/Hatch Mott MacDonald Infrastructure and Environment

*Contact:* Ms. Jennifer Kohlsaas, (973) 912-2475, *email:* [jennifer.kohlsaas@hatchmott.com](mailto:jennifer.kohlsaas@hatchmott.com)

*Contract:* 03-054B; *Period of Performance:* January 2006 to November 2006

Project Manager responsible for site investigation and preparation of Categorical Exclusion in accordance with FTA NEPA requirements.

**Ecology and Wetlands Technical Environmental Study for NEPA Categorical Exclusion Documentation (FHWA) for Route 27 Renaissance 2000 Improvements, Franklin Township, North Brunswick Twp. & City of New Brunswick, Middlesex and Somerset Counties, NJ**

*Client(s):* NJDOT/Arora and Associates, P.C.

*Contact:* Mr. Dan Yacovino, (609) 844-1111, *email:* [dyacovino@arorapc.com](mailto:dyacovino@arorapc.com)

*Contract:* 2005PM549; *Period of Performance:* February 2006 to September 2007

Project Manager responsible for delineation of onsite wetlands, preparation of application for NJDEP Letter of Interpretation, Regulatory Line Verification. Prepared Technical Environmental Study for Ecology and Wetlands, for inclusion in Categorical Exclusion Documentation in accordance with FHWA/NEPA regulations.

**NEPA Categorical Exclusion Documentation (FHWA) for Hunterdon County Bridge RQ-179 Historic Preservation & Rehabilitation, Townships of Readington & Raritan, Hunterdon County, NJ**

*Client(s):* Hunterdon County Engineering Department/French & Parrello Associates, P.A.

*Contact:* Mr. Robert McGowan, PE (732) 312-9800, *email:* [robert.mcgowan@fpaengineers.com](mailto:robert.mcgowan@fpaengineers.com)

*Contract:* N/A; *Period of Performance:* February 2006 to July 2006



Project Manager responsible for delineation of onsite wetlands, review of ecological impacts associated with alternative bridge alignments, preparation of Categorical Exclusion Documentation, and application for NJDEP Letter of Interpretation, Regulatory Line Verification.

**NEPA Categorical Exclusion Documentation (FHWA) for Ocean Drive (CR 621) Bridge over Middle Thorofare 2012  
Emergency North Abutment Slope Protection, Lower Township, Cape May County, NJ**

*Client(s):* Cape May County Department of Public Works/Stantec Consulting Services, Inc..

*Contact:* Mr. Wayne Faulkner, PE, (856) 234-0800, *email:* [wayne.faulkner@stantec.com](mailto:wayne.faulkner@stantec.com)

*Contract:* N/A; *Period of Performance:* February 2013 to May 2013

Project Manager responsible for onsite wetland delineation, permitting assessment, threatened and endangered species habitat assessment, and preparation of NEPA Categorical Exclusion Document for emergency bridge repairs to damages caused by Hurricane Sandy. Proposed repairs were exempt from having to obtain formal permits from NJDEP, since the project is included on the Cape May County inventory of Hurricane Sandy related emergency repairs to be submitted to NJDEP for authorization under NJ AO 2012-2013. The project does not involve the placement of fill within Waters of the U.S., and therefore no authorization under Section 404 of the Federal Clean Water Act is required. A temporary cofferdam (which is not considered fill under Section 404) will be required below the High Tide Line and above Mean High Water. The project's action area was found to contain marginal habitat for piping plover and seabeach amaranth; however, the narrow beach habitat and frequency of tidal inundation make it unlikely for either of these species to occur onsite. Concurrence from the US Fish and Wildlife Service was obtained on May 2, 2013.

**NEPA Categorical Exclusion Documentation (FHWA) and Environmental Permitting for Monmouth County Bridge 0-10  
over Deal Lake, Asbury Park and Ocean Townships, Monmouth County, NJ**

*Client(s):* Monmouth County/Maser Consulting

*Contact:* Mr. Nabil Ghanem, PE, (845) 352-0411, *email:* [ghanem@maserconsulting.com](mailto:ghanem@maserconsulting.com)

*Contract:* N/A; *Period of Performance:* May 2007 to September 2007; August 2010 to Present

Project Manager responsible for ecological investigation and compilation of Categorical Exclusion Document in accordance with FHWA NEPA regulations. Under separate contract, Project Manager responsible for wetland delineation and preparation of applications for NJDEP Freshwater Wetlands GP #10A, Flood Hazard Area Individual Permit, USACE NP#23 and US Coast Guard Advanced approval. All agency approvals have been obtained.

**RECOGNITION AND PUBLISHED PAPERS**

**Grants**

- U.S. Agency for International Development (USAID) and U.S. Peace Corps, Small Project Assistance (SPA): *Community Monitoring & Management of Cocodylus moreletii in La Ciénaga de Cabezas, Tamasopo, SLP, Mexico* \$3,000.00 (2009)
- Cementos Moctezuma: *Communications Radios for the Committee for the Sustainable Development of the Ciénaga de Cabezas.* \$1,000 (2009);
- Mexican National Commission for the Knowledge and Use of Biodiversity (CONABIO): *Restoration of the Wetland Spring and Stream in the Community of SLP, Mexico.* \$42,000 (2009) *Ciénaga de Cabezas, Tamasopo Cabezas, in the RAMSAR Site*
- U.S. Fish and Wildlife Service Neotropical Migratory Bird Treaty Act: *Neotropical Migratory Bird Habitat Conservation at San Luis Potosi, Mexico.* \$100,000 (2009) Co-Collaborator on behalf of the Mexican Secretariat of the Environment and Natural Resources (SEMARNAT) with the Potosino Institute for the Investigation of Science and Technology (IPICYT), SLP, Mexico

**Publications**

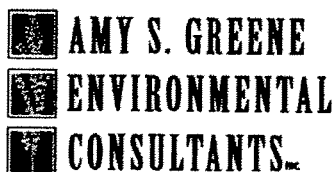
- Technical Contributor: Loa Loza, E., Sánchez Hermosillo M.D., Torres Jiménez J.G., Rosas Rosas O.C., Sierra Rivera M.S. (coordinadores). 2009. *Priority Areas for Management and Conservation in the State of San Luis Potosí, Mexico.* Mexican Secretariat of Agricultural Development and Hydrologic Resources (SEDARH).
- Technical Contributor: Tapia-Gone J.J., Garza-Hurtado R.F. 2009. *Description of the Characteristics of Existing Land Use, and Agro-ecological Potential of the Wetland, located in the Ciénaga de Cabezas, Municipio of Tamasopo, San Luis Potosí.* Autonomous University of San Luis Potosí, SLP, México, 138 p.

**COMPUTER SKILLS**

Microsoft Word, Excel, PowerPoint, ArcView, AutoCAD, Microstation, Trimble GPS

**U.S. CITIZEN/FOREIGN STATUS**

U.S. Citizen



**WILLIAM M. ROMAINE, PWS**  
*Field Manager/Team Leader*

#### **EDUCATION**

M.S., Zoology, University of Vermont, 1983  
Vermont Law School and Environmental Law Center, 1979-81  
B.A., Biology and Political Science, Hamilton College, 1979

#### **PROFESSIONAL CERTIFICATIONS**

Society of Wetland Scientists, Certified Professional Wetland Scientist - #2197  
Rutgers University Certified Wetland Delineator  
USFWS Recognized Qualified Bog Turtle Surveyor - NJ, NY, MD  
Vernal Pool Surveyor, NJ Division of Fish and Wildlife - Herptile Atlas Contributor  
OSHA Certified Manager/ Supervisor for Hazardous Waste Site Operations  
40-Hour OSHA Certification in Hazardous Waste Site Operations  
8-Hour OSHA Refresher Training, 2005-2013

#### **RELEVANT EXPERIENCE**

##### **TES in Support of NEPA Categorical Exclusion Documentation (FHWA) Route 54/Route 322 to Cape May Point Branch, Borough of Folsom, Atlantic County, NJ**

*Client(s):* NJDOT/Arora and Associates, PC

*Contact:* Mr. Michael Wright, PE, (609) 844-1111, *email:* [mwright@arorapc.com](mailto:mwright@arorapc.com)

*Contract:* 2003PM18, Fed Project BRM-MGS-0013(114); *Period of Performance:* November 2003 to Present

Project Manager responsible for delineating wetlands through analysis of flora, hydrology, and soils in accordance with NJDEP requirements under the *NJ Freshwater Wetlands Protection Act*. Identified anticipated environmental permitting requirements. Prepared Technical Environmental Study (TES) in support of Categorical Exclusion Documentation (CED) in accordance with FHWA NEPA requirements. Performed endangered and threatened species surveys for swamp pink, red-shouldered hawk, barred owl, red-headed woodpecker, Pine Barrens treefrog, and habitat assessment for pine snake. Prepared applications for NJDEP and NJ Pinelands Commission approvals. Pinelands Commission Public Development Approval was obtained.

##### **Ecology/Wetlands TES for NEPA EA (FHWA) for Route 72 Manahawkin Bay Bridges, Township of Stafford and Ship Bottom Borough, Ocean County, NJ**

*Client(s):* NJDOT/PB Americas with Arora and Associates, P.C.

*Contact:* Mr. Joseph Mumber, PE, (609) 734-7071, *email:* [mumber@pbworld.com](mailto:mumber@pbworld.com)

*Contract:* 2009PM708, Fed Project ID-MG-0019 (111); *Period of Performance:* 2009 to Present

Senior Project Manager in charge of the preparation of an Ecology/Wetlands Technical Environmental Study (TES) for the NEPA Environmental Assessment; performance of Essential Fish Habitat analysis and breeding bird surveys; preparation of a Conceptual Wetland Mitigation and Riparian Zone Compensation Plan; and preparation of applications for NJDEP Combined CAFRA, Coastal Wetlands, Waterfront Development and Freshwater Wetlands General Permits. The TES was prepared and submitted to FHWA along with the EA, and the EA subsequently received a FONSI allowing the project to proceed. Conducted a wetland mitigation site search. Conducted a habitat assessment and wetland delineation of Bonnett Island, part of the Edwin B. Forsythe National Wildlife Refuge, to determine whether the site was suitable for habitat enhancements that could be conducted as part of the mitigation for the proposed project. Currently designing a Riparian zone Mitigation plan for the site.

##### **NEPA Categorical Exclusion Documentation (FHWA) County Route 571 Realignment at Francis Mills, Jackson Township, Ocean County, NJ**

*Client(s):* Ocean County/Stantec Consulting Services, Inc.

*Contact:* Michael O'Donnell, P.E., (856) 234-0800, *email:* [michael.odonnell@stantec.com](mailto:michael.odonnell@stantec.com)

*Contract:* N/A; *Period of Performance:* November 2006 to 2013

Senior Project Manager in charge of environmental documentation, preparation of a NEPA CED, environmental permitting and approvals, and wetland mitigation. Tasks included conducting a wetland delineation of the project area as well as a Green Acres replacement parcel; performance of a swamp pink (*Helonias bullata*) survey; conducting bog turtle (*Clemmys {Glyptemys} mühlenbergii*) Phase II visual and Phase III trapping surveys; and performance of a mitigation site search and mitigation plan design. Assisted Stantec in the development of an alternatives analysis that was utilized in several supporting documents. Prepared and submitted Categorical Exclusion Documentation in accordance with NEPA FHWA requirements including a Programmatic Section 4(f) document for the taking of parkland. The CED was approved by FHWA. Prepared and submitted applications for an NJDEP Freshwater Wetlands Individual Permit to authorize 39,011 square feet of permanent wetland impacts, as well as for a NJDEP Flood Hazard Area Individual Permit. In order to mitigate for wetland and riparian zone impacts, Mr. Romaine conducted a mitigation site search which identified a site suitable to provide all of the project wetland mitigation needs.

A wetland mitigation plan was prepared and approved by NJDEP. Because the project required the taking of portions of three lots that are Green Acres encumbered, Mr. Romaine prepared and submitted a request to NJDEP for approval of a NJDEP Green Acres Minor Diversion. Studies conducted included tree surveys of the impact area and parkland replacement site, and a wetland delineation of the replacement site. The diversion was approved by NJDEP.

**NEPA EA (FHWA) for Wittpenn Bridge/Fish House Road Environmental Assessment, Jersey City and Township of Kearny, Hudson County, NJ**

*Client(s):* NJDOT/Jacobs Engineering Group

*Contact:* Ms. Lynne Baumann, (732)452-9200, *email:* [lynne.baumann@jacobs.com](mailto:lynne.baumann@jacobs.com)

*Contract:* 2001PM13, Fed Project MG-RDM-7675; *Period of Performance:* June 2001 to Present

Project Manager in charge of environmental documentation and permitting. Compiled an Environmental Assessment and the preparation of the ecology sections of the EA for submission to the Federal Highway Authority pursuant to NEPA requirements. Performed wetland delineation of the project area. FHWA accepted the results of the EA. Presented findings at meetings with stakeholders including NJDEP, USACE and USCG staff. Prepared successful applications for a NJDEP Freshwater Wetlands Individual Permit, a Waterfront Development Individual Permit, Water Quality Certificate and a Flood Hazard Area Individual Permit and Verification and a USACE Section 404 Permit. Conducted a wetland mitigation site search. It was determined that wetlands mitigation and riparian credits will be purchased from the Richard P. Kane Wetland Mitigation Bank to satisfy wetland mitigation requirements, which are a condition of both the NJDEP permits and USACE Nationwide Permit. A search for riparian zone compensation sites was performed. The bridge is under construction.

**NEPA Categorical Exclusion Documentation (FHWA) Monmouth County Bridge S-17 Replacement, Township of Middletown and Red Bank Borough, Monmouth County, NJ**

*Client(s):* Monmouth County/French & Parrello Associates, P.A.

*Contact:* Mr. William Jensen, PE, (732) 312-9800, *email:* [William.jensen@fpaengineers.com](mailto:William.jensen@fpaengineers.com)

*Contract:* P-97-2008; *Period of Performance:* October 2004 to August 2012

Senior Project Manager responsible for the preparation of a Categorical Exclusion Document (CED) for submission to the Federal Highway Authority pursuant to NEPA requirements. Performed a wetland delineation of the project area and conducted a submerged aquatic vegetation (SAV) survey within Swimming River. The SAV surveys were conducted by running underwater transects using scuba gear in accordance with Seagrass Survey Guidelines for New Jersey prepared by National Marine Fisheries Service (NMFS) in 1991. Surveys were conducted in anticipation of the proposed construction of a new bridge located to the north of the existing structure. Prepared successful applications for NJDEP Coastal Wetlands, CAFRA and Waterfront Development and US Army Corps of Engineers - Nationwide 404/10 Wetlands Permits. Coordinated with the US Coast Guard and NJDEP Bureau of Tidelands (for Riparian Grants). Conducted an Essential Fish Habitat Assessment pursuant to US Coast Guard and National Marine Fisheries Service requirements. Identified a suitable location for wetland mitigation and prepared a wetland mitigation plan to satisfy NJDEP and USACE permit requirements.

**Environmental Screening for NEPA EA (FHWA) for West Trenton Rail Line, Ewing Township, Hopewell Township, Hopewell Borough, Mercer County, Montgomery Township, Hillsborough Township, Manville Borough, Bound Brook Borough, Bridgewater Township, Somerset County, NJ**

*Client(s):* NJ Transit/SYSTRAS Consulting, Inc.

*Contact:* Mr. Dennis Fordham, (973) 873-9700, *email:* [dfordham@systrausa.com](mailto:dfordham@systrausa.com)

*Contract:* 97-EM-470; *Period of Performance:* January 2004 to March 2007

Project Manager responsible for performance of an Environmental Screening for inclusion in the Environmental Assessment Report prepared for the West Trenton line and the Lehigh Line (Task 12) in accordance with Federal Transit Administration requirements under NEPA. Inventoried natural resources, including streams and floodplains, wetlands and endangered species habitat along the corridor.

**COMPUTER SKILLS**

Microsoft Word, Excel, PowerPoint, ArcGIS, Trimble GPS

**U.S. CITIZEN/FOREIGN STATUS**

U.S. Citizen

# Eric C. Pescatore, CFM, GISP

## GIS Specialist

Mr. Pescatore is a GIS specialist with 11 years of experience in manipulating, managing and collecting GIS data for utilities' systems including water, wastewater and stormwater. He is a key element within the FEMA map modernization program and RiskMap Program.

Mr. Pescatore is experienced with field data acquisition and inspections and is well versed in QA and QC practices related to utilities and acts as GIS technical lead on the various projects. He is proficient with ESRI's ArcGIS suite of programs, ArcMap, ArcInfo Toolbox, 3D Analyst functions and ArcGIS Online, with foundation knowledge of ArcSDE and ArcServer. He is also proficient and knowledgeable with AutoCAD 2008. Additionally, his studies include remote sensing, hydrology, statistics, qualitative analyses, and computer programming (Java, VB, Python and ArcObjects) and environmental planning.

Mr. Pescatore has a foundation level of understanding of SharePoint 2010 Administration and Microsoft InfoPath forms. He is the leading Expert within the company in regards to Google Earth Enterprise (GEE) and Google Earth Pro for 3D visualizations of GIS related datasets.

**Task Manager and GIS Specialist, FEMA RiskMap Program FY09 to FY11 Studies. (New London, Connecticut and Suffolk, Massachusetts).** Mr. Pescatore has taken multiple roles within the RiskMap Studies as a task manager for County Based studies. FY09-11 are focused on Coastal Engineering of which he assisted development of new RiskMap and DFIRM products. For New London, Connecticut the process included pulling together various topographic data sources, development of updated flood hazard information, and collaboration with the engineering to produce final Preliminary Products.

**Task Manager and GIS Specialist, Federal Emergency Management Agency Map Modernization Project - FEMA MAP MOD Region 1, multiple locations.** Mr. Pescatore has been a key aspect in the FEMA Map Modernization Project and has filled various task management positions. He has written standards and documentation related to profile creation and profile production. He became task manager for the profile production, an essential part of the program. He helped develop tools to streamline the production of DFIRM maps, markups, georectification and profile production. He acts as a mentor FEMA staff and helps facilitate their growth while on the project. Mr. Pescatore has participated in the different production tasks from digital uplift, BFE creation, QA and QC, FIS reporting, georectification, and RFIRM production. In addition, he has served as a resource for troubleshooting and problem solving. Below are more in depth descriptions of FEMA tasks.

**GIS Specialist and Task Manager, Profile Production, multiple locations.** Mr. Pescatore served as task manager for the profile production of five FEMA task orders, (Chittenden County, Worcester County, Norfolk County, Essex County, Suffolk County, New London County, York County, and Cumberland County). Each county required all profiles to be marked up, organized and issues resolved before going to production. He was responsible for communicating with sub-consultants hired for production and developing tools for profile creation. Mr. Pescatore provided oversight for QA and QC staff, in addition to marking up and training while working on this task. He also facilitated the development of the profile production tool. Additional responsibilities included reporting, budgeting and invoicing on the various tasks, performing engineering reviews on profiles, and consulting

### Education

B.S. - Geography (GIS)  
B.A - Studio Arts  
(Graphic Design),  
Clark University, 2003

### Certifications

Certified GIS  
Professional (GISP),  
2011

Certified Floodplain  
Manager (CFM) 2008

with various FEMA regions on profile production. For these tasks Mr. Pescatore created and maintains the standards documentation for profile production and co-wrote the manual for utilizing the CDM Smith Data Capture Tool.

**GIS Specialist, FEMA Map Modernization Program, Profile and FDT, Kennebec County, Maine.** Mr. Pescatore is responsible for all aspects of the profile and FDT data collection process, and assists with creating and combining river profiles using a flood-mapping program called RASPLLOT. Over an 8-month period, Mr. Pescatore converted the data collection process to a digital ArcMap format. He is also responsible for QA/QC of data produced for the county.

**GIS Specialist, FEMA Map Modernization Program, DFIRM Production, Oxford County, Massachusetts.** Mr. Pescatore assisted the FEMA Map Modernization Program with the creation of the Digital Flood Insurance Rate Map (DFIRM). This process involved the use of FEMA's own mapping tools (MIP), which are accessed remotely via a Citrix connection. Features and label annotation were generated and uploaded to FEMA's own editing tools called MIP (Mapping Information Platform). These tools were used to modify and create over 300 DFIRMS panels in Oxford County. Additionally, Mr. Pescatore assisted FEMA staff with the QA/QC of DFIRM production.

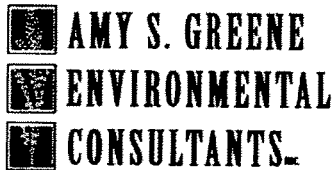
**GIS Specialist, FEMA Map Mod Program, Digital Liftup, Plymouth and Suffolk Counties, Massachusetts.** Mr. Pescatore assisted with the geo-rectification of the DFIRM panels that aligned the basemap information for Plymouth and Suffolk counties. He also assisted with digitization of flood lines, base flood elevations (BFEs), profile base lines, x/s and other features of data acquisition. These areas were adjusted based on x/s, elevation and topology data and then used for DFIRM production.

**Data Technician, FEMA Flood Insurance Study (FIS), Kennebec County, Massachusetts.** Mr. Pescatore was responsible for digitizing flood plains of over 30 cities and towns using georectified Flood Insurance Rate Maps (FIRM) acquired from FEMA. He created a new FIS profile using RASPLLOT and a database containing each FIS categorized by town and water body for various counties.

**SharePoint Administrator, FEMA:** Mr. Pescatore has assisted in developing and setting up SharePoint 2010 portal for the FEMA program at CDM Smith. Using the ArcGIS for SharePoint 2010, has created multiple technical demos, most note worthy is a Commuter Ride Share application to be used internally within CDM Smith.

**Application Developer, Profile Data Capture Tool, FEMA, multiple locations.** Mr. Pescatore assisted with the creation and conceptualizing of a Profile Data Capture Tool. Developed in conjunction with Inventive Concepts, Mr. Pescatore provided input into its use. He is currently evaluating options to continue the automation of the tool, and is assisting with developing additional FEMA related tools to help streamline production.

**Application Developer, Georectification Tool, FEMA, multiple locations.** Mr. Pescatore assisted with creating a tool to help facilitate the georectification of thousands of images produced by the FEMA Map Mod Project. The tool uses ArcObjects and allows the user to more easily rectify the images by placing down temporary reference points without the need to use the built-in tool. Mr. Pescatore helped with the testing and installation of this application, which is now in use on three other FEMA regions under CDM Smith contract.



**SEAN J. RONAN**  
*Senior GIS Specialist*

**EDUCATION**

B.S. Geography with Natural Environmental Systems emphasis, Northern Illinois University, 2001

**PROFESSIONAL CERTIFICATIONS**

10-Hour Construction Industry Outreach OSHA Training, 2013  
NYCDEP Approved Wetland Restoration Specialist.

**RELEVANT EXPERIENCE**

**NEPA Environmental Assessment (FHWA) and NJDEP and USACE Permitting. Vegetation Coverage Mapping and Wetland Mitigation Plan for Route 72 Manahawkin Bay Bridges, Stafford Township and Ship Bottom Borough, Ocean County, NJ**

*Client(s):* NJDOT/PB Americas, Inc.

*Contact:* Mr. Joseph Mumber, PE, (609) 734-7071, *email:* [mumber@pbworld.com](mailto:mumber@pbworld.com)

*Contract:* 026003570, 2009PM708, Fed Project ID-MG-0019(111); *Period of Performance:* March 2009 – Present

Created vegetation coverage mapping for a bridge replacement project sponsored by NJDOT. Maps were developed using ArcGIS and AutoCAD. Vegetation areas were digitized from mark ups provided by environmental scientists based on field investigation. Additional vegetation cover mapping was determined by orthophoto interpretation. Prepared USACE Section 404 Wetland Mitigation Plan and planting plan details, including coir log installation with bivalves.

**Landscaping Plan for NJ Transit Bay Head Yard, Bay Head Borough, Ocean County, NJ**

*Client(s):* NJ Transit/Hatch Mott MacDonald I&E, Inc.

*Contact:* Mr. Gary Walker, (973) 912-2489, *email:* [gary.walker@hatchmott.com](mailto:gary.walker@hatchmott.com)

*Contract:* 03-054B; *Period of Performance:* June 2004 to September 2004

Performed a site visit to acquire GPS data of existing conditions. Used GPS data, GIS data, and site plans provided by client to develop a landscaping plan. Plan design includes native plant schedules, planting plan layout, and planting details. Plan was drafted in AutoCAD.

**GIS Data and Mapping for PSE&G Susquehanna-Roseland 500kV Line Mitigation, Warren, Sussex, Morris and Essex Counties, NJ**

*Client(s):* Public Service Electric & Gas

*Contact:* Mr. Robert Pollock, (732) 261-4595, *email:* [robert.pollock@pseg.com](mailto:robert.pollock@pseg.com)

*Contract:* SCM-2011-1001055; *Period of Performance:* March 2010 – Present

GIS Manager prepared mapping and provided GIS geospatial data for wetland mitigation and riparian zone compensation site search efforts. Produced plans for conceptual wetland mitigation and riparian zone compensation sites. Designed details to be used on mitigation and compensation plans. Utilized GIS coverages regarding surface water classifications and endangered & threatened species habitat to determine regulated riparian zones within the project right-of-way. Prepared mapping showing the riparian zones, impacted wetlands, and potential mitigations sites within the affected watersheds for use in the conceptual mitigation plans.

**Drainage and Land Use and Environmentally Sensitive Areas Protection Plan for ACUA City Island Wastewater Treatment Facility, Atlantic City, Atlantic County, NJ**

*Client(s):* Atlantic County Utilities Authority

*Contact:* Mr. E. Christopher Harris, (609) 343-7728, *email:* [charris@acua.com](mailto:charris@acua.com)

*Contract:* N/A; *Period of Performance:* October 2010 – May 2011

Used field collected GPS data to digitize the position of drainage appurtenances on facility site. Used GPS data, facility plans, and USGS topographic mapping to produce Drainage and Land Use plan in AutoCAD. Produced Environmentally Sensitive Areas Mapping for the facility. Utilized the latest GIS layers from NJDEP and other agencies to map environmentally sensitive areas within the maximum area of potential impact of a contaminant discharge. Final ESA maps were produced using ArcGIS. All mapping was done in accordance with NJDEP regulations. Provided data from GIS layers to environmental scientist writing text portion of ESA plan.

**Environmentally Sensitive Area Mapping for Essex County Resource Recovery Facility, City of Newark, Essex County, NJ**

*Client(s):* Covanta Essex Company

*Contact:* Mr. George Kimiecik, (973) 817-7322, *email:* [gkimiecik@covantaenergy.com](mailto:gkimiecik@covantaenergy.com)

*Contract:* N/A; *Period of Performance:* May 2011 – July 2011

Utilized the latest GIS layers from NJDEP and other agencies to map environmentally sensitive areas within the maximum area of potential impact of a contaminant discharge. Final ESA maps were produced using ArcGIS. All mapping was done in accordance with NJDEP regulations. Provided data from GIS layers to environmental scientist writing text portion of ESA plan.

**Essex County Environmental Resource Inventory, Essex County, NJ**

*Client(s):* Essex County Department of Parks, Recreation and Cultural Affairs

*Contact:* Ms. Tara Casella, (973) 228-8776, *email:* [tcasella@parks.essexcountynj.org](mailto:tcasella@parks.essexcountynj.org)

*Contract:* N/A; *Period of Performance:* May 2006 – January 2007

GIS Project Manager produced mapping of environmental resources within Essex County for inclusion in the Essex County ERI, using the latest NJDEP, NJGS and USDA GIS layers available. The purpose of the Environmental Resource Inventory (ERI) for Essex County was to objectively identify and describe the natural resources, cultural conditions, environmental features and concerns within the county. The ERI provides both visual depictions of natural resources, in the form of mapping information, and text that describes these resources, their sensitivities and limitations for development and suggested measures for protection of sensitive resources. All maps were prepared in GIS.

**Drainage and Land Use Plans for PSEG Coal / Natural Gas-Fired Power Generating Stations in New Jersey**

*Client(s):* Public Service Electric & Gas/TRC

*Contact:* Mr. Bruce Babcock, (201) 933-5541, *email:* [bbabcock@trcsolutions.com](mailto:bbabcock@trcsolutions.com)

*Contract:* N/A; *Period of Performance:* June 2010 – July 2011

Project Manager responsible for review and revision of Drainage and Land Use Plans for nine (9) facilities in New Jersey using GIS mapping in accordance with *NJ Spill Act* regulations. Also responsible for preparation of Environmentally Sensitive Areas mapping for all nine facilities in New Jersey using GIS mapping. Collecting geospatial data for Environmentally Sensitive Areas Protection Plan.

**Environmentally Sensitive Area Mapping for Newark & Sewaren Terminals, City of Newark and Woodbridge Township, Essex and Middlesex County, NJ**

*Client(s):* Motiva Enterprises, LLC/NewFields, LLC

*Contact:* Ms. Michelle Smith, (732) 224-7066, *email:* [msmith@newfields.com](mailto:msmith@newfields.com)

*Contract:* N/A; *Period of Performance:* March 2009 – May 2009

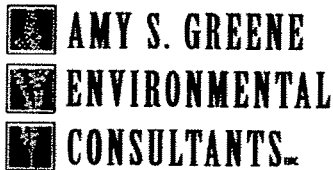
Utilized the latest GIS layers from NJDEP and other agencies to map environmentally sensitive areas within the maximum area of potential impact of a contaminant discharge for two facilities. Final ESA maps were produced using ArcGIS. All mapping was done in accordance with NJDEP regulations. Provided data from GIS layers to environmental scientist writing text portion of ESA plan.

**COMPUTER SKILLS**

Microsoft Word, Excel, PowerPoint; ArcView Desktop Software ArcMap 10.0 Pathfinder Office, and Trimble GPS equipment

**U.S. CITIZEN/FOREIGN STATUS**

U.S. Citizen



**JOHN R. PABISH**  
*Junior GIS Specialist*

**EDUCATION**

B.A. Geography with emphasis in Geographic Information Systems, Rutgers University, 2005

**PROJECT EXPERIENCE RELATED TO NEPA COMPLIANCE, ENVIRONMENTAL STUDIES AND SECTION 106 COMPLIANCE**

**GIS Mapping for National Guard Training Center (NGTC), Sea Girt, Monmouth County, NJ**

*Client(s):* NJ Department of Military and Veterans Affairs

*Contact:* Mr. William McBride, (609) 530-7136, *email:* [william.mcbride@njdmava.state.nj.us](mailto:william.mcbride@njdmava.state.nj.us)

*Contract:* GS10F0002T; *Period of Performance:* April 2007 to Present

Responsible for the preparation of maps required for the summary of findings regarding the survey of State and Federally listed species occurring at the NGTC. These species included the federally-listed sea beach amaranth and piping plover which were monitored over multiple seasons in dune and other intertidal habitats. Specific GIS data associated with all aspects of the monitoring surveys was collected and developed for integration into a federal database. This includes all site and vegetation conditions, key species and key species areas, and topographic data. Data collected utilizing a Global Positioning System (GPS) followed rigid technical procedures regarding the planning, equipment set up, field usage, and post processing of records for preservation in a database. Each season the GIS data developed was incorporated into the New Jersey Department of Military and Veterans Affairs and New Jersey Army National Guard databases. In order to ensure that all data collected and mapped was compatible with other data collected on federally maintained properties, specific software was utilized so that data development would follow the United States Army, CADD and GIS Center's Spatial Data Standards for Facilities, Infrastructure, and the Environment (SDSFIE) standards. The end product was a personal geodatabase that could be integrated into the system. This involved the creation of new and the revision of existing graphic and non-graphic geodatabase tables and then populating the numerous fields within these tables. All GIS spatial data created met the Federal Geographic Data Committee (FGDC) Standard Geospatial Positioning Accuracy Standards and metadata was created for the spatial data in compliance with the Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial Metadata (CSDGM) format. Additional maps were created for an NJDEP Coastal General Permit needed for the construction of an osprey platform on-site, a Freshwater Wetlands General Permit for on-site ditch maintenance work, and an overall Letter of Interpretation for the property.

**Environmental Mapping for Categorical Exclusion Evaluation for PennDOT District 5-0 Bridge Replacement SR1026 over Pine Creek, Berks County, PA**

*Client(s):* PennDOT District 5-0/Mackin Engineering Company

*Contact:* Mr. Jeff Raykos, PE, (717) 774-8900, *email:* [jraykos@mackinengineering.com](mailto:jraykos@mackinengineering.com)

*Contract:* E01597; *Period of Performance:* February 2009 – Present

This project involved the replacement of a deteriorating bridge crossing an exceptional value trout stream. Responsible for preparing field mapping for a Phase I BT habitat assessment of the project area. Additionally, prepared final map figures for the Categorical Exclusion Evaluation (CEE) incorporating several wetland areas located within and adjacent to the project area which were characteristic bog turtle habitat.

**Environmental Resources Mapping for Categorical Exclusion (FAA) for Tinicum Island Road Demarcation Building, Tinicum Township, Delaware County, PA**

*Client(s):* City of Philadelphia, Department of Commerce, Division of Aviation/Gannett Fleming, Inc.

*Contact:* Ms. Esther McGinnis, (215) 557-0106, *email:* [emcginnis@gfnet.com](mailto:emcginnis@gfnet.com)

*Contract:* 082099; *Period of Performance:* April 2008 – June 2008

GIS Specialist tasked with mapping environmental resources within 300 feet of the proposed project area in accordance with Federal Aviation Administration, Eastern Region Airports Division, Categorical Exclusion Form for Airport Development Projects. Completed all figures required for the FAA Categorical Exclusion including location, wetlands, floodplain, and site maps.

**NEPA Categorical Exclusion Documentation (FHWA) County Route 571 Realignment at Francis Mills, Jackson Township, Ocean County, NJ**

*Client(s):* Ocean County/Stantec Consulting Services, Inc.

*Contact:* Mr. Michael O'Donnell, P.E., (856) 234-0800, *email:* [michael.odonnell@stantec.com](mailto:michael.odonnell@stantec.com)

*Contract:* N/A; *Period of Performance:* November 2006 to 2013

GIS Specialist responsible for compiling environmental resource information available in GIS include wetlands and surface waters, floodplain, endangered and threatened species habitat, wildlife management areas, parklands, soils, stream classifications, Tidelands, Historic resources, and known contaminated sites. Also prepared environmental resource mapping for inclusion in the NEPA CED.



**NEPA Categorical Exclusion Documentation (FHWA) for Rehabilitation of Burlington County Bridge CR 670.  
Springfield Township, Burlington County, NJ**

*Client(s):* Delaware Valley Regional Planning Commission/Stantec

*Contact:* Mr. Wayne Faulkner, P.E., (856) 234-0800, *email:* [wayne.faulkner@stantec.com](mailto:wayne.faulkner@stantec.com)

*Contract:* N/A; *Period of Performance:* November 2006 to December 2009

GIS Specialist Responsible for compiling environmental resource information available in GIS include wetlands and surface waters, floodplain, endangered and threatened species habitat, wildlife management areas, parklands, soils, stream classifications, Tidelands, Historic resources, coastal zone, and known contaminated sites. Also prepared environmental resource mapping for inclusion in the NEPA CED.

**Garden State Parkway Southern Interchange Improvements Study, Cape May, Atlantic and Burlington Counties, NJ.**

*Client(s):* NJ Turnpike Authority/Stantec Consulting Services, Inc.

*Contact:* Mr. Lou Luglio, PE, (201) 587-9040, *email:* [Louis.Luglio@stantec.com](mailto:Louis.Luglio@stantec.com)

*Period of Performance:* March 2010 – September 2011

The NJ Turnpike Authority is undertaking a planning and design initiative for sixteen (16) interchanges on the Garden State Parkway. GIS Specialist responsible for working with the project manager to prepare environmental resources constraints mapping using both GIS data and field data collected by staff scientists. Resources mapped included wetlands and wetland transition areas, surface water resources, flood hazard areas and riparian zones, forest areas, cultural resources, endangered and threatened species habitat, tidelands, coastal areas (CAFRA Zone) and recreational lands.

**Ecological Resources Mapping for NYSDOT NY 27 Operational Performance Study Environmental Screening, NY 112 to Wading River Road, Town of Brookhaven, Suffolk County, NY**

*Client(s):* NYSDOT Region 10/PB Americas, Inc.

*Contact:* Mr. Marvin Gersten, PE, (212) 465-5318, *email:* [gerstenm@pbworld.com](mailto:gerstenm@pbworld.com)

*Contract:* D030535; *Period of Performance:* October 2007 – August 2011

Responsible for accumulating and mapping a vast array of ecological resources for the 11.5-mile project corridor and the surrounding area (almost 50 sq. miles). GIS source material was gathered from multiple sources, processed, and mapped for analysis and review. All data and project files were then assembled in a format that could be delivered to the client for their later use.

**ATIS Equipment Installation, Hutchinson River Parkway, Cross County Parkway, Saw Mill River Parkway and Sprainbrook Parkway, Westchester County, NY**

*Client(s):* NYSDOT/Dunn Engineering Associates, P.C./Parsons Brinckerhoff

*Contact:* Mr. George Moglia, (212) 465-5778, *email:* [moglia@pbworld.com](mailto:moglia@pbworld.com)

*Contract:* D015366; *Period of Performance:* March 2006 – March 2007

Responsible for the mapping of the wetland delineation along the 113 Km project alignment, using data collected with a Trimble GPS unit. Working with orthophotometry and GIS based state and federal wetland data, Mr. Pabish insured data integrity, then organized and prepared data for presentation.

**Route 23 Sussex Bypass, Wantage Township and Sussex Borough, Sussex County, NJ**

*Client(s):* NJDOT/Parsons Brinckerhoff

*Contact:* Mr. Marty Maloney, PE, PP, (609) 512-3500, *email:* [Maloney@pbworld.com](mailto:Maloney@pbworld.com)

*Contract:* 99PM03; *Period of Performance:* March 2007 – May 2008

Responsible for preparing field maps for a wetland mitigation site search surrounding the project study area using ArcGIS analytical tools to determine potential sites which meet basic environmental criteria which can then be further evaluated for suitability.

**COMPUTER SKILLS**

Microsoft Word, Excel, PowerPoint; ArcView Desktop Software ArcMap 10.0 Pathfinder Office, and Trimble GPS equipment

**U.S. CITIZEN/FOREIGN STATUS**

U.S. Citizen

# Patricia K. Forgang, CHMM

## Environmental Investigations

Ms. Forgang has 27 years of experience in regulatory permitting, state funding, and compliance of a variety of projects, including municipal and industrial wastewater, water supply, infrastructure (dams and bridges), a recreational park, solid waste and hazardous waste operations, as well as project management of multi-faceted and complex contaminated site cleanups, and design/build projects. Ms. Forgang has assisted a variety of public and private clients to comply with the Clean Water Act, including the Pollutant Discharge Elimination System; the Resource Conservation and Recovery Act (RCRA); the Toxic Substances Control Act (TSCA); the Clean Air Act; underground storage tanks (USTs); and specific to New Jersey, the Industrial Site Recovery Act (ISRA), as well as all Division of Land Use Regulation permit matters involving freshwater and coastal wetlands, flood hazard areas, coastal areas, stormwater management, threatened and endangered species, cultural resources, and Category One waters. These projects encompass regulated discharges to groundwater, surface water, and air, and hazardous and solid waste landfill design, construction, and operations, and large-scale facility design/build projects.

**Task Manager, Permitting and State Funding, Somerset Raritan Valley Sewerage Authority, Bridgewater, New Jersey.** *Project Dates: 1997-1998; 2002-2003; 2006-2007; 2009 – present. Reference: Glen D. Petrauski, Executive Director, SRVSA, Polhemus Lane, PO Box 6400, Bridgewater, NJ 08807, (732) 469-0593*

Ms. Forgang has assisted SRVSA on many different wastewater treatment plant upgrade or improvement projects throughout her tenure in the capacity of permitting and NJ Environmental Infrastructure Trust (NJEIT) funding task manager. These projects included a significant plant upgrade with a capital cost of almost \$20 million, a new main trunk sewer interceptor with a capital cost of \$10 million, and a new plant outfall with a capital cost of \$17 million, and several current projects involving wastewater treatment and sludge incineration. As part of NJEIT funding assistance, environmental reviews in accordance with NJ requirements for such projects were required. Ms. Forgang prepared all of the environmental reviews for these various projects, which entailed either Level 1 or Level 2 environmental reviews. She also was the primary interface with NJ reviewers of these projects. These projects involved wetlands delineation and threatened and endangered species surveys as well as cultural resources surveys in support of both permit applications and state funding applications. All projects were successfully funded in accordance with state requirements.

**Task Manager, Permitting and State Funding, Linden Roselle Sewerage Authority, Linden, New Jersey.** *Project Dates: 2002-2003; 2010-2011. Reference: Gary Fare, Executive Director, LRSA, P.O. Box 4118, 5005 South Wood Avenue, Linden, New Jersey 07036 (908) 474-8685*

Ms. Forgang has assisted LRSA on several different wastewater treatment plant upgrade or improvement projects throughout her tenure in the capacity of permitting and NJ Environmental Infrastructure Trust (NJEIT) funding task manager. These projects included wastewater treatment plant upgrades with a combined capital cost of \$27 million. As part of NJEIT funding assistance, environmental reviews in accordance with NJ requirements

### Years' Experience:

With Firm: 26  
Total Years: 27

### Education

B.S. - Chemical Engineering,  
University of Virginia,  
1983

### Registration

Engineer-in-Training:  
New Jersey

### Certifications

40-hour OSHA  
Hazardous Waste  
Operations and  
Emergency Response  
(HAZWOPER)  
Training

8-hour OSHA  
Hazardous Waste  
Operations and  
Emergency Response  
(HAZWOPER)  
Refresher Training

Certified Hazardous  
Materials Manager  
(CHMM), Certificate  
2006

### Honors/Awards

Alliance of  
Hazardous  
Materials  
Professionals,  
Champion of  
Excellence Award  
Winner, 2009,  
2010

for such projects were required. Ms. Forgang prepared all of the environmental reviews for these projects, which entailed Level 1 environmental reviews. She also was the primary interface with NJ reviewers of these projects. Since this facility is located in a highly industrialized and developed part of the state, there was no need for any cultural resources surveying or threatened and endangered species surveys. All projects were successfully funded in accordance with state requirements.

**Project Manager, United Lacquer PA/SI/RI for Site Redevelopment, City of Linden, New Jersey.** *Project Dates: 2006-present. Reference: George Vircik, City Engineer, 301 North Wood Avenue, Linden, NJ 07036, 908.474.8470.*

Ms. Forgang manages a contaminated site project known as the United Lacquer site in the City of Linden in Union County. The phases of work include a preliminary assessment, site investigation, and remedial investigation at this abandoned contaminated property. The work is conducted in accordance with New Jersey's Technical Requirements for Site Remediation (N.J.A.C. 7-26E). Ms. Forgang has successfully procured a \$100,000 grant from the NJDEP Hazardous Discharge Site Remediation Fund on behalf of the city to conduct the PA and SI phases of the investigation of contaminated soil and groundwater. Currently Ms. Forgang has successfully assisted the city with obtaining supplemental grant funding in the amount of an additional \$218,000 from the NJDEP for the city to fund the RI phase of the work, which will involve the delineation of soil and groundwater contamination including free-phase product on the groundwater table. The newly promulgated Soil Remediation Standards are applicable to this work and will require additional state funding to be obtained to implement site remediation.

**Project Manager, Open Space/Passive Park, Environmental Site Assessment and Site Remediation Services, Burlington County, New Jersey.** *Project Dates: 2000-2008. Reference: Mary Pat Robbie, Director, Department of Resource Conservation, County of Burlington, PO Box 6000, Mount Holly, NJ 08060-0600, 856.642.3850.*

For Burlington County, New Jersey, Ms. Forgang served as project manager for the site investigation and remediation projects at the Pennington Farm, which had been a 170-acre farm. She managed all aspects of this contract, which included the preliminary assessment, the site investigation, and the site remediation activities which were necessary to comply with the NJDEP's Technical Requirements for Site Remediation. The related site remediation activities included obtaining the following permits: NJDEP's Land Use Regulation Program permits for freshwater wetlands and waterfront development; USACE Nationwide permit for hazardous waste cleanup; freshwater wetlands mitigation; and soil erosion and sediment control plan certification; developing site remediation procurement/contract documents and providing bidding services so that the county could hire a cleanup contractor; part-time field oversight during site remediation; soil sampling and laboratory analyses; and remedial action reporting. Her responsibilities also included overseeing freshwater wetland mitigation of the former dump area that was remediated. The county has preserved this open space as a passive recreational park.

Jessica R. Beattie, P.G.  
Environmental Investigations

Ms. Beattie has 14 years of experience on a variety of environmental and geotechnical engineering projects, including environmental site assessments, remedial investigations (RIs), soil and groundwater contamination evaluations, geotechnical investigations and construction monitoring, asbestos, lead-based paint and radon surveys, indoor air quality sampling, remedial design, and cost estimating. As a senior geologist, Ms. Beattie's work experience includes performing hundreds of environmental site assessment, development of work plan and field sampling plan documents at hazardous waste sites, geophysical and soil gas surveys, subsurface investigations of petroleum spills and hazardous wastes, geotechnical investigations, indoor air quality investigations, RIs and feasibility study (RI/FS) and report preparation, evaluation of laboratory analytical data and reporting, site remediation at petroleum spills sites, and development of health and safety plans and quality assurance project plans.

**Project Manager, Environmental Reviews, Newark Housing Authority, New Jersey.** (2007- 2008) Ms. Beattie manages the preparation of EAS/Phase I ESA's for two Public Housing Developments owned by the Newark Housing Authority. The properties have been identified by NHA as family sites likely to benefit from demolition and preparation for redevelopment. The EAS and Phase I ESAs were conducted as part of the Environmental Review required by and in accordance with the Department of Housing and Urban Development Title 24 of the Code of Federal Regulations (CFR) Parts 58, 24 and 970. The Phase 1 Environmental Site Assessments were prepared in accordance with the ASTM E 1527-05 and EPA's "All Appropriate Inquiries" rule (40 CFR Part 312). The developments include a total of 28 buildings and 789 units, plus ancillary maintenance buildings and heating plants. Historic uses of the properties will require Phase II Environmental Site Assessments, including UST removals, to be conducted prior to site redevelopment.

**Project Manager, Nestle Waters North America, Allentown, Pennsylvania.** (2005 - 2006) Ms. Beattie managed the Phase I and Phase II investigations at three properties. She also managed subcontractors that performed an asbestos and lead-paint pre-demolition survey, a wetlands delineation, and archeological surveys on the properties.

**Assistant Field Manager, Kent Gun Club Remediation, The Boeing Company, Kent, Washington.** (June 2009 - March 2010) Ms. Beattie was responsible for project organization, reporting and confirmatory soil sampling. The project involved on-site stabilization and removal of 35,000 tons of lead contaminated soil. She was also responsible for the final cleanup report submitted to the Washington Department of Ecology, which resulted in the receipt of a no further action designation for the site.

**Project Manager, Pre-Demolition Surveys, Newark Housing Authority, Newark, New Jersey.** (June 2008 - December 2008) Ms. Beattie managed the pre-demolition surveys at two daycare facilities. The surveys included asbestos containing materials, lead based paint and other regulated materials including mercury containing devices, PCB containing equipment, refrigerants, compressed gases, etc.

**Field Geologist, Geotechnical Investigation for Remedial Design, Brookfield Avenue Landfill Remediation Project, Staten Island, New York.** (September 2001- March 2002)

**Education**

Master of Engineering - Environmental Engineering, Stevens Institute of Technology, 2004

B.A. - Geological Science, State University of New York at Geneseo, 1997

**Registration**

Professional Geologist: Delaware, 2006

**Certifications**

40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER)

Hazardous Waste Site Health and Safety Supervisor

New Jersey Department of Environmental Protection - Underground Storage Tank Subsurface Evaluator - License #233493

Confined Space Entry

For the New York City Department of Environmental Protection (NYCDEP), Ms. Beattie served as a field geologist in the geotechnical investigation of the Brookfield Avenue Landfill in Staten Island. The purpose of the investigation was to gather soil information for the remedial design which includes a barrier wall and interceptor trench to prevent the offsite migration of landfill leachate. Over 50 borings were logged by Ms. Beattie.

**Project Scientist, ESA Support for Major Construction Project, Upstate New York.**

(October 2004 – July 2008) For NYCDEP, Ms. Beattie is a project scientist participating in an ESA and hazardous materials evaluation task in support of a multimillion dollar design and construction project. Ms. Beattie conducted the Phase I environmental site assessment and Phase II site investigations for several large parcels of land that will be utilized for the new facilities. Large portions of the work involve redevelopment of the site that has been in use since the early 1900's and has primarily metals contamination. Several existing buildings in use for nearly a century are being evaluated for due diligence assessment in accordance with ASTM standards, plus performance of hazardous materials surveys (e.g., asbestos containing materials and lead based paint). The initial survey work has led to the sampling of both soil and groundwater in areas of potential environmental concerns as well as sampling of PACMs, paint and other building materials. Investigation results have been compared to NYSDEC cleanup criteria and site specific client goals. These evaluations will lead to the development of special construction requirements that will be documented in the design drawings and specifications.

**Project Manager/Project Scientist, Preliminary Site Assessments and Site Investigations, Multiple Properties, Burlington County, New Jersey.** (September 2001 –

October 2001) Ms. Beattie managed and conducted preliminary site assessments and site investigation at multiple properties in Burlington County - throughout the townships of Springfield, Delanco, Mansfield, Cinnaminson, Burlington, Mount Laurel, and Moorestown. These properties are being considered by the County for open space preservation or farmland preservations and in most cases are partially funded by New Jersey's Green Acres Program. The requirements imposed for these environmental assessments and investigations include New Jersey's Site Remediation Program rules known as the Technical Requirements for Site Remediation. In addition to conducting the preliminary assessments, she prepares the scope of work and cost proposals for site investigation work on these properties. In addition to soil investigations, Ms. Beattie has conducted underground storage tank and groundwater investigations. She managed and conducted the site investigations at these properties leading the sampling teams.

**Indoor and Outdoor Air Quality Monitoring, Waste Management, New York City, Brooklyn, Bronx, Queens, New York.** Ms. Beattie conducted air monitoring of Waste Management employees at five locations in New York City and outer boroughs. The purpose of the air monitoring and sampling program was to determine the levels of metals, dust, asbestos and silica within the breathing zone of Waste Management employees. Personnel wore sampling equipment for a four-hour period while conducting their work duties. This program was conducted as a result of the World Trade Center tragedy to establish worker safety for those potentially exposed to hazardous materials at Ground Zero.

## Melissa A. Harclerode, ENV SP

### S2 – Senior Scientist

Ms. Harclerode is an experienced environmental scientist that has been involved in a variety of projects, including environmental site assessments (ESAs), remedial investigations (RIs), pre-design investigations, and vapor intrusion evaluations. She has also provided oversight and management for several in-situ site characterization technologies, including the membrane interface probe (MIP), Ultra-Violet Optical Screening Tool (UVOST), and Targost®. She has provided technical support for work plans, subcontractor statement of works, remedial investigation reports, Phase I and II Investigation documentation, pre-design reports, health and safety plans, Quality Assurance Project Plans and Superfund site closeouts. Ms. Harclerode is currently CDM Smith's Sustainable Remediation Technical Resource Group (TRG) Leader and is well versed in environmental footprint analysis tools.

**Task Manager, NJDCA Superstorm Sandy Action Plan, Procurement Documents and Environmental Review Support.** Project Dates: February 2013 - Present. Ms. Harclerode is the Task Manager for the NJDCA on-call contract. Ms. Harclerode is responsible for maintaining the staffing plan, managing subcontract agreements, and coordinating with NJDCA on invoicing. Ms. Harclerode works closely with the Principal-in-Charge on maintaining the contract.

**Environmental Scientist, Confidential Client, Haledon, NJ.** Project Dates: January 2012 - Present. Ms. Koberle is responsible for leading the field program for the vapor intrusion evaluation at the Site. Ms. Koberle is responsible for all the activities associated with sub-slab vapor port installation and sampling, indoor air sampling, ambient air sampling, and building inventory. Her responsibilities included, but are not limited to, contacting local residents, setting up the sampling schedule, shipping out samples, and informing the project manager of daily activities. Ms. Koberle also is responsible for preparing the NJDEP Full Laboratory Data Deliverable Form and homeowner letters for vapor intrusion results.

**Project Manager, Wantagh Cleaners, Hempstead, NY.** Project Dates: October 2010 - October 2012. Ms. Koberle is the Project Manager for the Wantagh Cleaners work assignment under the NYSDEC Contract. Her responsibilities include delegating and overseeing activities associated with a remedial investigation involving delineation of a chlorinated groundwater plume and vapor intrusion assessment. She is also responsible for keeping track of each site's budget and hours.

**Task Manager, Targeted Brownfields Assessments, USEPA Region 2.** Project Dates: October 2009 - Present. Ms. Koberle is the Task Manager for the Brownfields work assignment under the EPA Contract. Her responsibilities include delegating, overseeing, and conducting Phase I and II Environmental Site Assessments. She is also responsible for keeping track of each site's budget and hours. She is also the liaison between CDM Smith and the representatives for the Targeted Brownfield Assessment funding

#### Education

Ph.D. - Environmental Management, Current

M.S. - Environmental Science, Rutgers University/New Jersey Institute of Technology, 2010

B.S. - Environmental Science & Biology, Muhlenberg College, 2005

#### Professional Licenses/Certifications

Institute of Sustainable Infrastructure's Envision Sustainability Professional Credential, 2013

FEMA Incident Command System Training and FEMA ICS for single Resources and Initial Action Incidents, 2006.

#### Years Experience:

With Firm: 8  
Total Years: 8

recipient. Ms. Koberle also prepared the Generic QAPP and HASP for the Targeted Brownfields Sites.

**Field Manager, Harrison Landfill, Camden, NJ.** Project Dates: August 2009 - Present. Ms. Koberle was the field team manager for the Harrison Landfill MIP investigation. Her responsibilities included making in-field decisions in order to implement the TRIAD approach on-site to streamline sampling and characterization efforts. Ms. Koberle also assisted with writing, preparing tables, and evaluating data from the MIP, soil, and groundwater investigation for the pre-design report.

**Environmental Scientist, Horseshoe Road Site, Egg Harbor, NJ.** Project Dates: Fall/Winter 2007 - 2008. Ms. Koberle was responsible for all the activities associated with sample management for the soil sampling event. Her responsibilities included, setting up the sampling schedule, preparing Forms II Lite, labeling bottleware sets, completing chains of custody, performing a quality control check on shipping containers and documentation, preparing quality control samples, shipping out samples, and assisting the field team leader. After the field event was complete, Ms. Koberle was responsible for preparing federal sampling trip reports and completing post sampling documentation. This project that Ms. Koberle worked on is included in the proposal as **Project History No. 6.**

**Task Manager, Standard Motor Products, Queens, NY.** Project Dates: June 2007 - Present. Ms. Koberle was the Task Manager for the Supplemental Remedial Investigation at SMP. Her responsibilities included managing subcontractors and field investigation activities consisting of soil gas and direct push technology sampling. Ms. Koberle also assisted with writing, preparing tables, and evaluating data from the soil gas, soil, and groundwater investigation for the report. Ms. Koberle currently assists with the annual operations and maintenance sampling of the soil vapor extraction system onsite. Evaluation of the radius of influence of the system is also assessed annually. This project that Ms. Koberle worked on is included in the proposal as Project History No. 8.

**Environmental Scientist, Old Roosevelt Field Site, Nassau County, NY.** Project Dates: August 2005 - August 2009. During the winter, Ms. Koberle collected approximately 200 soil gas samples, both on site and off site. The soil gas samples were collected into summa canisters at two intervals below ground surface via Geoprobe. Soil gas screening was also performed at 350 sample locations. She was also responsible for the sampling management and shipment of samples. During the spring, Ms. Koberle assisted in the collection of groundwater samples via the West Bay System and the low flow procedure. The monitoring wells were located on site and off site. Following groundwater sampling, she assisted in an eco-assessment of the site, which involved identifying dominant vegetation, basin boundaries, and hydrology.



**Charles McCusker, P.G., C.H.M.M., L.S.R.P.**  
**Project Manager**

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## **EDUCATION**

University of Southern Colorado: B.S. Geology (1985)

## **PROFESSIONAL REGISTRATIONS AND TRAINING**

Licensed Site Remediation Professional (NJDEP)

Professional Geologist PA, DE.

Certified Hazardous Materials Manager (Master Level)

Licensed for UST Closure and Subsurface Investigation (NJDEP)

NYSDEC-approved Petroleum Bulk Storage Facility Auditor

Hazardous Waste Site and Supervisor Training: OSHA 29 CFR 1910.120(c)

## **EXPERIENCE SUMMARY**

Mr. McCusker has over 27 years of experience in developing compliance strategies and technical solutions for environmentally impaired properties in 24 States and the U.S. Virgin Islands. He has worked with local, State and Federal officials on environmental projects performed in accordance with CERCLA, TSCA, RCRA, ISRA, CAA, CWA, LUST, and OSHA regulations. He has completed numerous preliminary assessments, site investigations and remediation projects utilizing vapor extraction, low temperature thermal desorption, incineration, bioremediation, in-situ chemical oxidation, and natural attenuation and excavation remedies at manufactured gas plants, dry cleaners, petroleum bulk storage facilities, chemical plants and wood treating facilities. His experience includes extent of contamination studies of organic and inorganic chemicals in soil and groundwater, hydrogeologic investigations of water supply systems, groundwater modeling of contaminated aquifers, installation and maintenance of product recovery systems, pump and treat systems, contractor oversight during removal actions and remedial system installation, preparation of Bid Packages, Bid Specifications, Quality Assurance Work Plans, Health and Safety Plans, Preliminary Assessments, Remedial Investigation Reports, Remedial Action Work Plans, Remedial Action Reports, conducting in house training on representative soil sampling and soil classification, computer applications for word processing, database management, graphic depiction and groundwater modeling.

## **REPRESENTATIVE PROJECTS**

**LSRP Services, Midas, Dumont, New Jersey**— Project Manager for delineation and remediation of this former service station site. Developed the HASP, conducted historical research and a facility audit. Implemented public notification, an LNAPL recovery program and designed interim remedial measures to ensure regulatory compliance for the site. Ongoing activities will include off site access negotiations, groundwater delineation and remediation.

*Reference: Aaron Engi, TBC Retail Group*

**LSRP Services, Former Hillman's Golfland, Elmwood Park, New Jersey**— Provided a review of historical investigation and remedial activities for the prospective buyer. Evaluated the proposed in-situ chemical oxidation proposal and provided reserve estimation for the client. Have assumed the role of the LSRP for this project and will provide ongoing groundwater monitoring for the established Classification Exception Area and will evaluate the remedial progress going forward.

*Reference: George Siller, BF Langan Consultants, LLC*

**UST Closure & Engineered Cap Inspection, DCH Auto Group, Parking Lot Expansion, Union, New Jersey** – Conducted Ground Penetrating Radar and Electromagnetic geophysical surveys of former residential lots acquired for parking lot expansion of the automobile dealership. Located abandoned Underground Storage Tanks, performed tank closure and provided subsurface evaluator services on a fast track basis to keep construction on schedule and ensure that tank closure was performed in accordance with local and state regulations. Provided oversight of the engineered cap construction.

*Reference: Rehab Attia, DCH Auto Group*



**Charles McCusker, P.G., C.H.M.M., L.S.R.P.**  
**Representative Projects (Cont'd)**

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**Petroleum Bulk Storage Facility Audits, New York, New York, Auditor for NYCOER/NYCEDC**  
Auditor of Petroleum Bulk Storage (PBS) facilities for various New York City Mayoral Agencies including NYPD, FDNY, DSNY, DOC, DCAS, DHS, DJJ, DPR and EDC. This work was performed in response to a November 2010 Consent Order with NYSDEC to bring mayoral agency heating oil storage tanks into regulatory compliance, Approximately 693 heating oil storage tanks at approximately 487 project sites were covered under the consent order. This contract included facility audit inspection, tank tightness testing, and PBS registration updates. Reporting consisted of Facility Summary Reports, issuance of Notices of Violation, identification of deficiencies and corrective measures.  
*Reference: Cavy Chu, NYCOER*

**Miller Property, Mine Hill, New Jersey Senior Project Manager** – Conducted a groundwater RI following a release of No. 2 fuel oil from a 550-gallon UST. Prepared a Remedial Action Report (RAR) and RAW to document post excavation soil and groundwater conditions and received approval to address residual impacts in soil beneath the structure using chemical oxidation and to address groundwater impacts using a multi-phase extraction from multiple well points. Chemical Oxidation successfully addressed residual soil contamination beneath the structure and the bioslurper successfully removed free phase oil from the bedrock aquifer. A Revised RAW was submitted and approval was granted by NJDEP to address the remaining groundwater impacts in the bedrock aquifer via bedrock injections (chemical oxidation).  
*Reference: Brad Kehler, Allstate Insurance Company*

**Former Giorgis Property, Jersey City, New Jersey Senior Project Manager** – Prepared a RAR to document soil removal activities associated with a leaking 550-gallon residential fuel oil UST. A RAW was prepared to address remaining groundwater impacts in the bedrock aquifer with a Groundwater Treatment System (GWTS). Provided effluent monitoring and reporting and a revised RAW was prepared to supplement the GWTS with surfactant flushing.  
*Reference: Lou Elia, Allstate Insurance Company*

**Graff Property, Bedminster, New Jersey Senior Project Manager** – Conducted a groundwater RI following a release from a 1,000-gallon gasoline UST. This investigation included the installation of 28 bedrock monitoring wells, down hole geophysical logging, quarterly ground water monitoring using low flow and passive diffusion bag sampling. Immediate Environmental Concerns (IECs) were addressed by installation of a Point of Entry Treatment (POET) system, replacement of the potable wells, a vapor intrusion study and installation of Soil Vapor Extraction (SVE) systems. A RASR and a pilot study RAW were prepared to test the efficacy of in-situ chemical oxidation.  
*Reference: Michelle Roller, Atlantic Mutual*

**Berkovitz Property, Teaneck, New Jersey, Senior Project Manager** – Provided contractor oversight during the remedial excavation activities which involved structural support using helical piers. Collected post excavation samples and performed a groundwater RI. Groundwater impacts were still present in the bedrock aquifer and a RAW was prepared to address these impacts via in-situ chemical oxidation. NJDEP approved the RAW and two rounds of injections were performed. Groundwater monitoring indicates that the in-situ treatment has been effective in achieving compliance objectives.  
*Reference Lou Elia, Allstate Insurance Company*

**Blake Property, Greenwich, New York, Senior Project Manager** – Performed site inspection following a sudden release of fuel oil from a 275-gallon residential fuel oil AST. Provided causation determination of the release, performed a groundwater remedial investigation and provided contractor oversight during groundwater treatment system operation and maintenance. Performed groundwater monitoring and prepared a Remedial Action Report for spill closure.  
*Reference: Michelle Morelli, Peerless Insurance*

# Andrew R. Poyant

## Environmental Review / Records

Mr. Poyant is an environmental scientist with five years experience, and supports a variety of projects ranging from National Environmental Policy Act (NEPA)/Massachusetts Environmental Policy Act (MEPA) documents, wetland delineation, wetland monitoring, wetland evaluation, vernal pool monitoring, water quality sampling, erosion and sedimentation inspections, as well as environmental permit applications. He has prepared applications for submittal to federal, state and local agencies, including the U.S. Housing and Urban Development (HUD), U.S. Army Corps of Engineers (USACE), U.S. Department of Agriculture (USDA), Federal Emergency Management Agency (FEMA) Federal Aviation Administration (FAA), the Massachusetts Department of Environmental Protection (MassDEP), New York State Department of Environmental Conservation (NYS DEC), Massachusetts Historical Commission (MHC), New York State office of Parks, Recreation and Historic Preservation (NYSO PRHP), Texas Historical Commission (THC) and local Conservation Commissions. Mr. Poyant has delineated and/or monitored wetlands in Connecticut, Kansas, Massachusetts, New Hampshire, New York, North Carolina, Rhode Island, Virginia, and West Virginia.

**Environmental Scientist, Harris County Community Development Block Grant Disaster Recovery (CDBG-DR) Program: Hurricane Ike, Harris County, Texas, 2009 to 2013.** Through the use of the Texas Department of Housing and Community Affairs (TDHCA) Texas CDBG-DR Program, 2008 Supplemental Disaster Recovery Fund and the Hurricanes Dolly and Ike funds, and federal involvement through HUD, CDBG Harris County Community Services Department (HCCSD) is assisting with the repair, rehabilitation and reconstruction of approximately 600 homes throughout Harris County that were damaged as the result of Hurricane Ike. Mr. Poyant was responsible for the historic review as set forth in 36 CFR Part 800, Subpart B the Section 106 process pursuant to NEPA. He has received approval from the THC on over 250 properties. He prepared site specific Environmental Assessments (EAs) per NEPA requirements for the rehabilitation or reconstruction of houses damaged by Hurricane Ike.

**Environmental Scientist, CDBG Disaster Recovery Program, Galveston, Texas, 2010 to 2011.** Mr. Poyant was part of the CDBG-DR Program, assisting approximately 1,000 individual homeowners and property owners of small rental properties (1-4 units) throughout the city whose homes and rental units were damaged by Hurricane Ike. Mr. Poyant prepared site specific EAs required under NEPA, as administered by HUD. Mr. Poyant coordinated with the USACE to determine if sites were in compliance with Executive Order 11990 which requires federal agencies "to avoid to the extent possible the long and short term adverse impacts associated with destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative."

**Environmental Scientist, CDBG Disaster Recovery Program, Minot, North Dakota, 2012 to present.** Mr. Poyant is part of the CDBG-DR Program project team, as a part of the environmental effort to assist the City of Minot in roadway and utility infrastructure redevelopment and enhancements, as well as approximately 250 households whose homes have been damaged or destroyed by a June 2011 severe flooding event. Mr. Poyant is

### Education

B.S. - Biology,  
University of  
Massachusetts at  
Dartmouth, 2008

### Registration

Certified Wetland  
Scientist: State of  
New Hampshire,  
2012

Wetland  
Professional In  
Training: Society of  
Wetland Scientist,  
2010

### Training

OSHA 40-hour  
Certification of  
Hazardous Waste  
Operations and  
Emergency  
Response

### Years with Firm

5 years

completing Environmental Review Records (ERRs) per the HUD and FEMA NEPA requirements.

**Environmental Scientist, Hazard Mitigation Grant Program (HMGP), Texas, 2013 to present.** The purpose of the HMGP is to reduce the loss of life and property due to natural disasters and to enable mitigation measures to be implemented during the immediate recovery from a declared disaster. The purpose of the proposed projects is to reduce wildfire hazards in the state of Texas. The project is needed because a long-term drought has increased wildfire hazard by killing many trees, providing a large amount of dry fuel for a potential wildfire. As a part of the HMGP project team, Mr. Poyant is preparing site specific EAs required under NEPA, as administered by FEMA.

**Project Scientist, Water System Improvements, Oak Bluffs, Massachusetts, 2009.** Mr. Poyant delineated wetland resources adjacent to the project site. He prepared an Environmental Report (ER) for the Rural Utilities Service USDA pursuant to NEPA and a Notice of Intent (NOI) permit application for submission to the Oak Bluffs Conservation Commission per the Massachusetts Wetlands Protection Act (Mass WPA).

**Environmental Scientist, Hazard Mitigation Plan Review, Federal Emergency Management Agency (FEMA) Region 1, New England, 2011 to 2012.** Mr. Poyant reviewed the Hazard Mitigation Plans for municipalities in New England. The plans monitor multiple natural hazards that have occurred, or have the potential to occur within their jurisdiction. These reviews were part of the initial FEMA analysis of the plans that the municipalities submitted for approval by FEMA. FEMA is identifying all bases are covered for each identified hazard.

**Project Scientist, Merrimack River Bank Stabilization Project, Haverhill, Massachusetts, 2009 to 2010.** Mr. Poyant assisted in the permitting efforts to stabilize approximately 1,900 linear feet (lf) of bank along the Merrimack River in Haverhill, Massachusetts, using bioengineering techniques for approximately 1,800 lf and stone rip rap for approximately 110 lf. The permitting effort included: an Environmental Notification Form (ENF) per MEPA, a NOI filed with the Haverhill Conservation Commission per the Mass WPA, Section 401 Water Quality Certification and Chapter 91 Waterways License with MassDEP, and Section 404 via General Permit (GP) Category 2 Activity Compliance with USACE.

**Project Scientist, Commerce Way Roadway Improvements Project, Plymouth, Massachusetts, 2012.** Mr. Poyant prepared and submitted a Notice of Project Change (NPC) to MEPA for the improvements for approximately 4,000 feet along Plympton Road. Mr. Poyant received a Certificate from MEPA.

**Project Scientist, Comprehensive Wastewater Management Plan (CWMP), Yarmouth, Massachusetts, 2009 to 2011.** For the Town of Yarmouth's CWMP, Mr. Poyant prepared the Expanded Environmental Notification Form (EENF) pursuant to MEPA. He conducted the wetland delineation for Phase 1 of the CWMP and prepared the Abbreviated Notice of Resource Area Delineation (ANRAD) submitted to the Yarmouth Conservation Commission per the Mass WPA.

**Project Scientist, Comprehensive Wastewater Management Plan (CWMP), Harwich, Massachusetts 2011 to 2013.** For the Town of Harwich's CWMP, Mr. Poyant prepared the

# Alexandra H. Kleyman, AICP

## Environmental Review / Records

Ms. Kleyman is an environmental and urban planner with experience in NEPA/CEQA analysis for water resources, light and heavy rail transportation, alternative energy, and disaster recovery planning projects. She also has experience with regional planning policies and urban watershed management.

Ms. Kleyman has worked on many diverse water supply and transportation projects. For the U.S. Bureau of Reclamation, she oversaw a real estate team including Federal employees and sub-contractors to analyze the potential impacts to private real estate from the removal of four large dams on the Klamath River. Ms. Kleyman has analyzed the energy resource impacts of several large light-rail transportation projects spanning multiple jurisdictions throughout Los Angeles County, determining both the short-term (construction-related) and long-term (operation-related) energy resource impacts.

**Project Planner, Minot CDBG HUD Environmental Assessments and Affordable Housing Plan, Minot, ND. (2012-2013)** For this project, Ms. Kleyman completed numerous Environmental Assessments for the rehabilitation and reconstruction of private properties damaged by flooding of the Mouse River. Ms. Kleyman also completed environmental analyses for the acquisition and conversion to open space of damaged properties. The affordable housing portion of the work consisted of researching approaches for developing an accurate and up-to-date population estimate for the City of Minot. The population estimate was used to conduct a housing needs assessment for the city to be used, in part, to understand the housing and population impacts of the recent growth of the oil industry.

**Project Planner, East Bay Hills Hazardous Fire Risk Reduction EIS, San Francisco Bay, CA. (2012-2013)** Ms. Kleyman wrote several sections of the EIS looking at the impact of vegetation management for fire risk reduction in the East Bay Hills on geology, soils, public services, and recreational resources.

**Energy Resources Technical Reviewer, Redline Extension and North Red and Purple Modernization Project, Chicago, Illinois. (2012-2013)** Ms. Kleyman is the technical reviewer for the energy resources technical memoranda being prepared for these Chicago Transit Authority NEPA documents. She is responsible for coordinating the project schedule with sub-consultants preparing the technical analyses.

**Project Planner, U.S. Bureau of Reclamation Klamath River Dam Removal. (2010-2012)** Ms. Kleyman oversaw economic analysis of potential impacts to real estate values from the potential removal of four dams on the Klamath River in northern California and southern Oregon. Wrote several sections of the environmental impact statement including Population and Housing, Recreation, and Traffic and Transportation.

**Project Planner, Eastside Transit Corridor Phase 2, Los Angeles, California. (2010-2011)** Ms. Kleyman wrote the Water Resources/Hydrology and Energy Resources Technical Reports and Environmental Impact Statement chapters for this project. The project consisted of an at-grade and aerial extension of the Los Angeles County

### Education

M.A. – Urban and Environmental Policy and Planning, Tufts University, 2008

B.A. – Biology, Smith College, 2003

### Certifications

American Institute of Certified Planners

Metropolitan Transportation Authority's Gold Line subway approximately six to nine miles into East Los Angeles near the communities of Whittier and El Monte. The proposed train would cross two rivers, several Federal floodplain management lands, and local groundwater recharge basins.

**Project Planner, Galveston Master Neighborhood Planning, Galveston, Texas. (2010-2011)** Ms. Kleyman researched and wrote several sections of the master neighborhood plans for the 18 neighborhoods rebuilding from Hurricane Ike. She also worked with other planners to lead on-site public meetings with community members to determine citizens' main planning and environmental concerns. She was instrumental in working with the planning team to turn community planning priorities into specific goals with related actions, local resources, and recommended steps to address mobility, housing, community cohesion, and infrastructure needs.

**Project Planner, Westside Extension Transit Corridor, Los Angeles, California. (2009-2010)** Ms. Kleyman is responsible for writing the water resources and hydrology section of the joint environmental impact statement/ environmental impact report for this project. The project consists of several alternative alignments for the extension of the Los Angeles County Metropolitan Transportation Authority's subway from the existing red/purple lines near downtown Los Angeles extending approximately 10 miles to Santa Monica.

**Project Planner, Mather Airport Master Plan, Rancho Cordova, California. (2008-2010)** Ms. Kleyman assisted in the development and writing of the Environmental Assessment (EA) for implementation of the airport's Master Plan. She worked specifically on the Water Resources and Hydrology Section of the (EA).

**Project Planner, Regional Connector Transit Corridor, Los Angeles, California. (2008-2009)** For the Los Angeles County Metropolitan Transportation Authority, Ms. Kleyman drafted the Water Resources/Hydrology and Energy Resources technical reports of the joint Environmental Impact Statement/Environmental Impact Report. The project involved the design and construction of a subway line through the central city area of Los Angeles. The new subway would connect the existing yellow and blue lines to the purple line. Construction of proposed train maintenance and storage yards would cross the Los Angeles River. Ms. Kleyman's responsibilities included researching and writing the existing conditions and environmental consequences sections relating to these two resource areas, and working with sub-consultants to coordinate analysis and findings.

# Melissa A. Peters, AICP

## Environmental Review/ Records

Ms. Peters is an urban and environmental planner with a background in environmental analysis, sustainability planning, and regulatory compliance. In her seven-year career, she has considerable experience developing sustainability programs, assessing environmental impacts, and incorporating sustainable practices into land use strategies and environmental projects. She is a specialist in energy master planning and greenhouse gas management. Her project experience includes infrastructure and environmental planning, federal environmental impact studies, and solid waste planning as well as stakeholder facilitation to find integrated solutions to the natural and built environment. She is experienced with performing environmental reviews conforming to the requirements set forth by the National Environmental Policy Act (NEPA) for a variety of projects concerning transit expansions, housing developments, landfills, and utility improvements. Ms. Peters' project-related experience is described below.

### **Project Planner, Eufaula Lake Shoreline Management Plan and Master Plan Update Environmental Impact Statement, Eufaula, Oklahoma, April 2012 – January 2013.**

The United States Army Corps of Engineers (USACE), Tulsa District, proposes to update the 1998 Eufaula Lake Shoreline Management Plan (SMP) and to supplement the 1977 Eufaula Lake Master Plan (MP). CDM Smith prepared the Environmental Impact Statement (EIS) to address the potential impacts of the SMP update and MP supplement from a lake-wide perspective. Ms. Peters' work included writing the land use, air quality, greenhouse gas emissions, climate change mitigation and adaptation, and cumulative impacts sections for the EIS.

**Project Planner, Metra Union Pacific West and North West Lines Environmental Assessments, Chicago, Illinois, September 2012 – June 2013.** Under Metra's New Starts Program, CDM Smith completed NEPA documentation for infrastructure improvement projects on the Union Pacific (UP) West and Northwest lines. Ms. Peters prepared the EA documents and assisted with the preparation of a Finding of No Significant Impact (FONSI).

**Project Planner, CDBG Disaster Recovery Program, Minot, North Dakota, July 2012 – Present.** Ms. Peters is part of the Community Development Block Grant Disaster Recovery (CDBG-DR) Program project team, leading the environmental effort to assist the City of Minot in roadway and utility infrastructure redevelopment and enhancements, as well as approximately 250 households whose homes have been damaged or destroyed by a June 2011 severe flooding event. Ms. Peters is responsible for completing Environmental Review Records (ERRs) per the U.S. Department of Housing and Urban Development (HUD) NEPA requirements. She completed the environmental research and analysis and agency coordination, and determined mitigation measures required to be implemented.

**Project Planner, HUD Environmental Assessments of Proposed Housing Projects, Harris County, Texas, August 2010 – May 2013.** Ms. Peters provided regulatory guidance and support to organizations proposing projects under the Harris County Community Development Block Grant Disaster Recovery Program. The project assisted individual homeowners in restoring their homes to pre-hurricane conditions, and in some cases to

### **Education**

M.A. - Urban and Environmental Policy and Planning, Tufts University, 2008

B.A. - Political Science and Environment and Development Policy (*cum laude*), Lake Forest College, 2006

### **Certifications**

AICP, American Institute of Certified Planners, 2010, No. 024430

### **Training**

OSHA 40-hour HAZWOPPER Training, July 2008

Environmental Assessment Training, August 2009

elevate their homes to protect against future flood damage. Ms. Peters prepared site-specific environmental assessments for the reconstruction and rehabilitation of homes damaged as the result of Hurricane Ike. As part of the project, Ms. Peters provided assistance in preparing required environmental documents, reviewing the documents and providing guidance to ensure full compliance with HUD regulations.

**Project Planner, Donald C. Tillman Personnel and Multi-Use Facility, City of Los Angeles Bureau of Engineering, March 2012 – April 2012.** The City of Los Angeles is proposing to construct a new permanent structure on the Tillman plant site adjacent to the Japanese Garden. Ms. Peters prepared a CEQA-compliant Initial Study/Mitigated Negative Declaration (IS/MND) and an Environmental Assessment (EA) to comply with the U.S. Army Corps of Engineers NEPA regulations. The environmental analysis focused on visual and aesthetic impacts, as well as the introduction of a new structure within the maximum probable flood area within the Sepulveda Flood Control Basin.

**Project Planner, HUD Environmental Assessments of Proposed Housing Projects, Galveston, Texas, August 2010 - March 2011.** The City of Galveston Grants and Housing Department provided Community Development Block Grant (CDBG) funds to individual homeowners and property owners of small rental properties (1-4 units) throughout the City whose homes and rental units were damaged by Hurricane Ike. Ms. Peters was part of the CDBG-DR Program, assisting approximately 1,000 individual homeowners and owners of small rental properties throughout the city whose homes and rental units were damaged by Hurricane Ike. Ms. Peters served as part of the team leading the ERR effort. She was in charge of conducting noise assessments for all reconstruction sites within rail, road, and airport buffers.

**Project Planner Chicago Transit Authority (CTA) Red, Orange, and Yellow Line Extensions Environmental Impact Statements (EIS), Chicago, Illinois, August 2009 – Present.** The CTA has embarked on scoping and preparation of three NEPA EISs for projects to extend the Red, Orange, and Yellow lines in Chicago, Illinois. Ms. Peters led the effort to coordinate the NEPA scoping process following Federal Transit Administration New Starts Program and SAFETEA-LU guidelines including publishing the Notice of Intent, preparing the scoping booklet, inviting participating agencies, conducting public and agency scoping meetings, preparing a coordination plan, and a scoping report. She is assisting with the land use, community, and displacement sections of the EIS.

**Task Manager, HUD Environmental Review, Chicago, Illinois, April 2009 – February 2010.** Ms. Peters managed the environmental review of proposed housing projects in the City of Chicago that are funded by U.S. Housing and Urban Development (HUD). The environmental reviews were conducted in accordance with regulations of the National Environmental Policy Act (NEPA) and state law. She assisted in the preparation of the Environmental Review Record (ERR) which includes assessments of floodplain management, wetlands protection, noise, and historic property, among others. Ms. Peters is trained in environmental assessments, specifically for HUD's Community Development Block Grant, HOME, and public and subsidized housing.

Marcie A. Encinas

## Environmental Review /Records Development

Ms. Encinas is an environmental scientist with 10 years of experience in regulatory permitting and compliance, environmental site assessments and remedial investigations, construction oversight and management, and environmental impact statements. As a mid-level scientist, she has experience in preparing state permits and compliance documents for Federal Superfund projects, municipal and industrial wastewater projects, as well as a variety of private clients to comply with Clean Water Act, including the Pollutant Discharge Elimination System; the Resource Conservation and Recovery Act (RCRA); and Division of Land Use Regulation permit matters, involving freshwater and coastal wetlands, flood hazard areas, coastal areas, stormwater management, and Category One waters.

**Project Scientist, Roebling Steel Superfund Site, Burlington County, New Jersey. (June 2008 - December 2010)** Ms. Encinas was responsible for preparing the environmental permit equivalency applications for the Roebling Steel Superfund Site located in Mansfield and Florence Townships. The Site comprises five operable units and includes the dredging of contaminated sediments from the Delaware River and Crafts Creek, freshwater, non-trout, tidal water bodies, as well as coastal wetland restoration. Ms. Encinas was responsible for assisting the clients with applying for various NJDEP Land Use permit equivalencies including; NJDEP LURP Coastal General Permit (No. 15) Equivalency - Investigation, Cleanup, Removal, or Remediation of Hazardous Substances; NJDEP DLUR Waterfront Development Permit Equivalency; and NJDEP DLUR Flood Hazard Area Permit Equivalency. She also assisted in the preparation of the local soil conservation district soil erosion sediment control plan submittal.

**Project Scientist/ Environmental Professional/Phase I ESAs, New York. (2008 - 2010)** Ms. Encinas was responsible for completing site assessments at various NYCDEP Water Pollution Control Plants that were under design for upgrade. Upon completion of the site assessment, she prepared site investigation/site characterization work plans to investigate identified AOCs with potential to impact construction during the planned upgrades and to assess subsurface conditions for reuse on site and/or offsite disposal.

**Project Scientist/Field Technician, Phase I Site Assessment, New York City Department of Environmental Protection (NYCDEP) Catskill/ Delaware Ultraviolet (UV) Light Disinfection Facility, Valhalla, New York. (2008 - 2009)** Ms. Encinas assisted in the site assessment of the Catskill and Delaware aerators located at the Kensico campus. The aerators were demolished as part of the Catskill Aqueduct pressurization work and construction of the Catskill/Delaware UV Light Disinfection Facility. She was instrumental in identifying sample locations and assisted in composing a work/sampling plan for the investigation. Ms. Encinas was a main contact for NYCDEP and subcontractors during the site investigation. She was also responsible for developing an action plan to address the levels of contamination identified at each aerator. The investigations included a site reconnaissance, soil, groundwater, standing water, sediment, concrete chip, and bricks, mortars and seal coating materials sampling, and producing text inclusive of research, sampling methods, the analysis of results, and conclusions and future recommendations.

**Project Scientist/Field Technician, Phase I Site Assessment, NYCDEP Catskill/ Delaware UV Light Disinfection Facility, New York (2003 - 2005).** Ms. Encinas assisted

### Education

B.S. - Environmental Science Rutgers University, 2002

### Certifications

40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER)

Hazardous Waste Site Health and Safety Supervisor

Confined Space Entry Safety

CPR and First Aid Certified

New Jersey Department of Environmental Protection - Underground Storage Tank Subsurface Evaluator - License #463147, Expires 11/30/2011



in the site assessment of several locations along the Catskill Aqueduct which are planned for pressurization by CDM Smith. She identified sample locations and assisted in composing a work/sampling plan for the investigation. Ms. Encinas was a main contact for NYCDEP and subcontractors during the soil and groundwater investigations during the site investigation. She acquired necessary permits from local municipalities and permission from NYCDEP prior to sampling as well as informing other related agencies to the work performed. The investigations included a site reconnaissance, soil and groundwater sampling, and producing text inclusive of research, sampling methods, the analysis of results, and conclusions and future recommendations.

**Project Scientist/ Environmental Professional/Project Manager, Environmental Site Assessments and Site Characterization at the former Roe Park Service Center, Consolidated Edison Co., Cortlandt Manor, New York. (June 2012 - June 2013).** Ms. Encinas performed the Phase I Environmental Site Assessment (ESA) of the former Roe Park Service Center located in Cortlandt Manor, Westchester County, New York. The Phase I ESA was prepared in general accordance with the ASTM E 1527-05 and EPA's "All Appropriate Inquiries" rule (40 CFR Part 312) and includes a sit reconnaissance, review of state and federal environmental databases as provided in the Environmental Data Resources, Inc. (EDR) radius report, review of environmental lien and title records, review of historic aerials, topographic maps, Sanborn Maps and available federal, state and local property records. The Phase I ESAs were conducted to identify areas of concern (AOC) associated with the former service station that could be investigated in prior to property sale. AOCs identified included the presence of underground storage tanks, and above ground storage tanks, historic leaks and spills, historic operations, the presence of floor drains and hydraulic lifts, and the potential for residual contamination from previous remedial actions. Ms. Encinas prepared the Phase I ESA reports and subsequent site characterization work plans. Each work plan was prepared in accordance with Con Edison's Technical Specification REM-RP-2008-01 and the NYSDEC *Draft DER-10 Technical Guidance for Investigation and Remediation*, dated November 2009. Each work plan includes a site-specific Quality Assurance/Field Sampling Plan and a Health and Safety Plan (including Community Air Monitoring Plan and Fugitive Dust Plan). The site characterization investigation was completed in June 2013 with Ms. Encinas acting as project manager. Subsequent sampling was conducted at the Tilden Avenue Substation in May and June 2012. M. Encinas are presently waiting for analytical results.

**Project Scientist/ Environmental Professional/Task Manager, Environmental Site Assessments and Site Characterizations at two Substations proposed for Demolition, Consolidated Edison Co., Brooklyn, New York. January 2010 - July 2012.** Ms. Encinas performed the Phase I Environmental Site Assessments (ESAs) of the Ainslie Street and Tilden Avenue Substations located in Brooklyn. The Phase I ESAs were conducted to identify areas of concern (AOC) associated with the substation that could be investigated in preparation for substation demolition. AOCs identified included the presence of underground storage tanks, historic leaks and spills, historic operations, the presence of sumps, and previous on-site structures. Ms. Encinas prepared the Phase I ESA reports and subsequent site characterization work plans. Each work plan includes a site-specific Quality Assurance/Field Sampling Plan and a Health and Safety Plan. Pre-demolition site characterization activities were completed at the substations in August and September 2010 under the management of Ms. Encinas.

# Jessica Kretch

## Field Assessment

Ms. Kretch has one year of experience in the geotechnical and site/civil engineering field. Her skills include but are not limited to: site inspections, soil investigation oversight, surveying pre-construction condition, drafting of required construction plans, proposal and report development, stormwater management design, water purification and distribution system design, and renewable energy design.

### RELEVANT EXPERIENCE

**Dilworth Plaza, City Hall Station Renovation, Philadelphia, Pennsylvania** - Staff engineer providing construction monitoring services for the installation of elevator, PE12 in the Dilworth Plaza Phase of the City Hall and 15th Street Renovation project. The planned construction consists of the installation of three (3) elevators, waterproofing and structural repairs, two new fare lines, new payment technology, new finishes, and utilities. Engineer provided field inspection and compiled the Pre-Construction Survey and developed the Instrumentation Monitoring Plan to be reviewed by SEPTA.

**1979 Deer Park Avenue- ADA Parking Lot Upgrades, Deer Park, New York** - Staff engineer assisting in the design plans for proposed parking lot improvements of a Bank of America in Deer Park, New York. The planned construction consists of milling and overlay of existing parking lot, restriping of the parking lot, sidewalk reconstruction, upgrades which involve catch basin, and drainage improvements. In addition, the proposed parking lot improvements must meet Americans with Disability Act (ADA) standards for improved site construction. Under project engineer supervision a full site survey investigation and asphalt coring test was completed. An overall site plan was provided to illustrate the site improvements, topographic survey, and utility information. In addition, further services included project oversight, design quality control, and participated in several project team and permitting agency meetings.

**66 Beveridge Road, Mahwah, New Jersey** - Staff engineer assisting in the site/civil engineering services to assist the proposed construction of a residence in Mahwah, New Jersey. The project services are to provide a rain garden design as a stormwater runoff reduction method and obtaining a soil movement permit for the proposed construction. The project responsibilities include obtaining a soil movement permit, topographic site survey, test pit installation in order to determine percolation rate, and drainage design for roof runoff.

**Green Streets for New York City Department of Parks & Recreation, New York, New York** - Staff engineer assisting in a subsurface investigation and soil testing of two green streets located in New York City that provides additional storm water runoff drainage. Staff engineer assisting in geotechnical/environmental engineering services to characterize the subsurface conditions and install a monitoring well to measure the impact of infiltration rates and influence on the ground water table.

**20 & 22 Rose Street: Minor Subdivision Plan, South River, New Jersey** - Staff engineer assisting in the site/civil engineering services for the subdivision of a residential property in South River, New Jersey. The client requested consulting services to obtain variance

### Education

B.S., Civil and Environmental Engineering, Rutgers University

M.S., Environmental Engineering, University of California at Berkeley (Expected Graduation- May 2013)

approval from the South River Planning Board. The project responsibilities included an existing property survey, minor subdivision plans, grading and drainage plans and attending planning board meetings with expert testimony.

**New Haven Avenue- Conditions and Vibrations Monitoring Study, Queens, New York -**

Staff engineer assisting in the detailed pre-construction condition survey, vibration monitoring, and geotechnical evaluations for the proposed construction for the New York City Department of Design and Construction (NYCDDC). The proposed construction consists of storm sewers, sanitary sewers, and water main work along New Haven Avenue. Staff engineer completed site visits to existing structures in the immediate area of the construction and provided photo documentation of all exterior facades. A final, detailed pre-construction condition was provided to the NYCDDC with photo documentation, site categorization, vibration monitoring results, and geotechnical evaluations.

**United Stationers 3.5MW Solar PV Rooftop System, Cranbury, New Jersey -**

Staff engineer assisting in the approved site upgrades for the design and installation of the 3.5 MWdc (direct-current) ballast weighted PV solar system located on the 500,000 sq.ft rooftop of the United Stationers warehouse. The site/civil engineering services included the permit approval for on-site landscape, roadway and sidewalk upgrades according to the Americans w/ Disability Act Standards for Accessible Design (ADA) required by the Township of Cranbury and Middlesex County. In addition, engineer provided expert testimony and design and construction drawings submitted to planning board members and Township/County officials.

# Nhan Dang

Mr. Dang is a member of the Engineering Group at Sadat Associates, Inc. He has experience working on various projects involving construction inspection/oversight of landfill closure projects, soil investigation, and preparation of engineering reports.

- **Quality Assurance Engineer, Kingsland Redevelopment Area Project - Avon Landfill and Lyndhurst Landfill, Bergen County, New Jersey.** March 2013 - ongoing. *Reference: Reference: Mr. Joseph Mattiassi, American Home Assurance, 175 Water Street, New York, NY, 10038. (212) 458-6236.*

As Quality Assurance Engineer, Mr. Dang's responsibilities include:

- Interpretation of engineering plans and specifications and checking their proper implementation by the contractor.
- Propose and check minor design modifications during construction due to variation in the existing site conditions than those shown on the engineering plans or due to unforeseen circumstances, e.g., perform minor changes to grading, relocate monitoring instrumentation, readjust piping grades/elevations, relocate gas vents and leachate clean-outs locations, etc.
- Review and approve or reject modifications to shop drawings prepared by the contractor.
- Review manufacturer cut sheets for different materials/products utilized in the construction (e.g., geotextiles; geogrids; precast concrete units for pavers, manholes, etc.; sheet piles; piping for gas, leachate, electric conduits, etc.) Materials/products were then approved or rejected after comparing their properties to the Contract Specifications and requirements.
- Review, approve or reject modifications and value engineering changes proposed by the contractor to facilitate and/or expedite construction.
- Review, approve or reject candidate soils/materials to be utilized for the construction of the control systems including: stone bedding for leachate and gas pipes, common fill for grading, clayey soils for barrier layer, sandy soils for drainage layer, soil for filter layer, topsoil, riprap for swales and downchutes, and more.
- Review, approve or reject contractor request for product substitution or change in material properties as deemed necessary during construction.
- Propose adjustment/modifications to contractor's means and methods during construction as needed, e.g., dewatering procedures/techniques, compaction procedure, material workability, avoiding obstructions during sheet pile driving, and more.
- Inspect and approve the placement and compaction efforts for the different types of soils for grading and capping the landfills including clayey soils for barrier layer, sandy soils for drainage layer, soil for vegetative/filter layer, topsoil, and dense graded aggregate for road construction.
- Perform in-situ density testing utilizing a Nuclear Gauge.

## Years Experience:

*With Firm:*

3 months

*Total Years:*

## Education

Rutgers, University of  
New Jersey  
M.S., Geotechnical  
Engineering, 2013

## Certifications

-OSHA 40-hr  
Hazardous Waste  
Operations &  
Emergency Response  
-Troloxer Nuclear Gauge  
Safety Program  
Certification

- Collect bulk and undisturbed soil samples (Shelby Tubes) for laboratory testing and approval of their geotechnical properties as per the Contract Specifications and/or their intended function/use. The laboratory testing performed by SAI to obtain the physical and mechanical properties of different types of soils for approvals included:
  - Grain size analysis, Atterberg Limits, Compaction Test, Unconfined Compressive Shear Strength, Shear Strength Triaxial Test (unconsolidated-undrained), Falling Head Permeability Test; and Flexible Wall Permeameter.
- Inspect the installation of different geosynthetic materials.
- Inspect the installation/construction of the leachate collection systems.
- Inspect the installation/construction of the methane gas venting systems.
- Inspect the installation/construction of the swales and downchutes for the stormwater management system including access road crossing areas.
- Inspect the construction of the stabilizing trenches at the toe of the landfill slopes.
- Inspect test borings and test pit excavations for subsurface investigation programs and preparation of soil boring logs
- Inspect the driving of sheet piles for the vertical hydraulic containment system.
- Prepare daily reports accompanied by photographs of all important construction activities taking place during the day.
- Attending weekly meetings with the Client and contractor to discuss work progress and resolve any construction issues.

# Jonathan Marino

Mr. Marino is a member of the Engineering Group at Sadat Associates, Inc. He has experience working on various projects involving construction inspection/oversight of landfill closure projects, soil and groundwater site investigation, environmental monitoring and data review and analysis as well as preparation of engineering reports.

- **Quality Assurance Engineer, Kingsland Redevelopment Area Project - Avon Landfill and Lyndhurst Landfill, Bergen County, New Jersey.** January 2013 - July 2013. *Reference: Mr. Joseph Mattiassi, American Home Assurance, 175 Water Street, New York, NY, 10038. (212) 458-6236.*

As Quality Assurance Engineer, Mr. Marino's responsibilities include:

- Interpretation of engineering plans and specifications and checking their proper implementation by the contractor.
  - Propose and check minor design modifications during construction due to variation in the existing site conditions than those shown on the engineering plans or due to unforeseen circumstances, e.g., perform minor changes to grading, relocate monitoring instrumentation, readjust piping grades/elevations, relocate gas vents and leachate clean-outs locations, etc.
  - Propose adjustment/modifications to contractor's means and methods during construction as needed, e.g., dewatering procedures/techniques, compaction procedure, material workability, avoiding obstructions during sheet pile driving, and more.
  - Inspect and approve the placement and compaction efforts for the different types of soils for grading and capping the landfills including clayey soils for barrier layer, sandy soils for drainage layer, soil for vegetative/filter layer, topsoil, and riprap for swales construction.
  - Perform in-situ density testing utilizing a Nuclear Gauge.
  - Collect bulk and undisturbed soil samples (Shelby Tubes) for laboratory testing
  - Inspect the installation/construction of the leachate collection systems.
  - Inspect the installation/construction of the methane gas venting systems.
  - Inspect the installation/construction of the swales and downchutes for the stormwater management system including access road crossing areas.
  - Inspect test borings and test pit excavations for subsurface investigation programs and preparation of soil boring logs
  - Inspect the driving of sheet piles for the vertical hydraulic containment system.
  - Collection and analysis of inclinometer readings and instrumentation data
  - Prepare daily reports accompanied by photographs of all important construction activities taking place during the day.
- **Field Engineer, Bridgeton Elementary Schools, Bridgeton, New Jersey.** January 2013 - February 2013. *Reference: Mr. Richard Ferrara, New Jersey Schools*

## Years Experience:

*With Firm:*

6 months

*Total Years:* ½ year

## Education

University of Delaware  
B.S., Civil Engineering,  
2012

## Certifications

-OSHA 40-hr  
Hazardous Waste  
Operations &  
Emergency Response  
-Troloxer Nuclear Gauge  
Safety Program  
Certification

**Jonathan Marino, Assignment**

*Development Authority, 1 West State Street, P.O. Box 991, Trenton, NJ, 08625. (609)  
656-5043*

As Field Engineer, Mr. Marino's responsibilities included inspection of test borings and test pit excavations for subsurface investigation programs and preparation of soil boring logs.

# Erik Lukjantschenko

Mr. Lukjantschenko is a member of the Engineering Group at Sadat Associates, Inc. He has experience working on various projects involving construction inspection/oversight of landfill closure projects, soil and groundwater site investigation, environmental monitoring and data review and analysis as well as preparation of engineering reports.

- **Quality Assurance Engineer, Kingsland Redevelopment Area Project – Avon Landfill and Lyndhurst Landfill, Bergen County, New Jersey.** May 2013 – July 2013. 180 hours. *Reference: Mr. Joseph Mattiassi, American Home Assurance, 175 Water Street, New York, NY, 10038. (212) 458-6236.*

As Quality Assurance Engineer, Mr. Lukjantschenko's responsibilities include:

- Interpretation of engineering plans and specifications and checking their proper implementation by the contractor.
- Propose and check minor design modifications during construction due to variation in the existing site conditions than those shown on the engineering plans or due to unforeseen circumstances, e.g., perform minor changes to grading, relocate monitoring instrumentation, readjust piping grades/elevations, relocate gas vents and leachate clean-outs locations, etc.
- Propose adjustment/modifications to contractor's means and methods during construction as needed, e.g., dewatering procedures/techniques, compaction procedure, material workability, avoiding obstructions during sheet pile driving, and more.
- Inspect and approve the placement and compaction efforts for the different types of soils for grading and capping the landfills including clayey soils for barrier layer, sandy soils for drainage layer, soil for vegetative/filter layer, topsoil, and riprap for swales construction.
- Perform in-situ density testing utilizing a Nuclear Gauge.
- Collect bulk and undisturbed soil samples (Shelby Tubes) for laboratory testing
- Inspect the installation/construction of the leachate collection systems.
- Inspect the installation/construction of the methane gas venting systems.
- Inspect the installation/construction of the swales and downchutes for the stormwater management system including access road crossing areas.
- Inspect test borings and test pit excavations for subsurface investigation programs and preparation of soil boring logs
- Inspect the driving of sheet piles for the vertical hydraulic containment system.
- Collection and analysis of inclinometer readings and instrumentation data
- Prepare daily reports accompanied by photographs of all important construction activities taking place during the day.

## Years Experience:

*With Firm:*

1.5 months

*Total Years:*

## Education

Rider College  
B.S., Environmental  
Sciences, 2013

## Certifications

-OSHA 40-hr  
Hazardous Waste  
Operations &  
Emergency Response  
-Troloxer Nuclear Gauge  
Safety Program  
Certification



## Wen Liu, Ph.D., EIT

Dr. Liu is a member of the Engineering Group at Sadat Associates, Inc. (SAI). As a project engineer, she is responsible for assessing water quality, sediment and groundwater chemistry data in order to design and implement projects. She is involved with developing and implementing protocols for decontamination and disposal of PCBs contaminated transformers/capacitors. In addition, she is also responsible for conducting preliminary assessment/Phase I study at project sites. She evaluates project engineering specifications, logistics, and construction approach as well as cost analysis and report preparation. Her additional responsibilities include personal exposure assessment of air pollutants and development of health and safety protocols.

**Project Engineer, Edgeboro Disposal, East Brunswick, NJ.** 2012-ongoing. 1050 hours. *Reference: Mr. Jack Whitman, Edgeboro Disposal, Inc., P.O. Box 6478, East Brunswick, NJ, 08816. (732) 227-1329.*

Dr. Liu's tasks for the Title V Air Permit compliance project include performing emission calculations, data analysis/evaluation, engineering control device evaluation and recommendations, report preparation and submission to comply with all of the limits, standards, and best practices outlined in the Title V Permit.

- **Project Engineer, Industrial Land Reclaiming, Edison, NJ.** 2012 - 2013. 252 hours. *Mr. Gary Lotano, Industrial Land Reclaiming, Inc., 9 Central Avenue, Toms River, NJ 08753. (732) 914-8600.*

Dr. Liu's tasks for the Industrial Land Reclaiming Landfill project include assessing water quality, sediment and groundwater chemistry data for landfill impact evaluation on the nearby river system.

- **Project Engineer, Pulaski AMB Distribution Center, Jersey City, NJ.** 2012 - ongoing. 100 hours. *Reference: Mr. Botond Farkas, Prologis, Inc., 1 Meadowlands Plaza, East Rutherford, NJ, 07073. (201) 623-2493.*

Dr. Liu's tasks for this project include onsite monitoring and assessment of air pollutants, development of health and safety protocols, and evaluation of historic groundwater chemistry data.

- **Project Engineer, Former Anglesea Beach Colony Sanitary Landfill, North Wildwood, NJ.** 2012 - ongoing. 92 hours. *Reference: Mr. Tom Anderson, K. Hovnanian @ N. Wildwood, LLC, 110 Fieldcrest Avenue, Suite 39, Edison, NJ, 08837. (732) 225-6828.*

Dr. Liu's tasks for this project include field and gas venting systems inspections, report preparation and submission.

- **Project Engineer, Englert, Inc. Property, Perth Amboy, NJ.** 2012. 24 hours. *Reference: Deborah Tripod, Englert, Inc., 1200 Amboy Avenue, Perth Amboy, NJ, 08861. (732) 826-8805.*

Dr. Liu's tasks for this project include records review, site reconnaissance, interviews, and report preparation.

### Years Experience:

*With Firm: 1*

*Total Years: 5*

### Education

Rutgers, University of New Jersey  
Ph.D - Environmental Sciences, June 2012  
M.S. - Environmental Sciences, June 2008

Sun Yat-sen University, Guangzhou, China  
M.S. - Environmental Sciences, 2005  
B.S. - Environmental Sciences, with honors, 2003

### Certifications

Engineer in Training, National Council of Examiners for Engineering and Surveying (NCEES), Apr. 2013

OSHA 40-hr Hazardous Waste Operations & Emergency Response (Refresher Mar. 2013)

# Richard Kurisko

Mr. Kurisko is a member of the Science Group at Sadat Associates, Inc. He has over sixteen years of experience with the company working on and managing various projects involving soil and groundwater site investigations, remedial investigations, oversight of remedial actions, wetland delineation, health & safety management, landfill capping & slurry wall construction, management of processed dredge material, cylinder & drum removal, preparation of contract & bid specifications, and preparation of various environmental documents and reports.

- **Oversee, Direct, and Report on landfill closure activities, American Home Assurance (Meadowlands), Lyndhurst, NJ.** May 2009 to April 2012. 1,724 hours. *Reference: Mr. Henry Gold, American Home Assurance, 175 Water Street, New York, NY, 10038. (212) 458-6236.*

Mr. Kurisko was responsible for the supervision, coordination, and reporting on activities involving landfill leachate line cleanout and repair activities for several landfills. Additionally, Mr. Kurisko supervised and coordinated all leachate system drawdown testing at the various landfills. Mr. Kurisko oversaw and reported on all activities regarding the placement of a final cap on two landfills for this project.

- **Oversee, Direct, and Report on Remedial Activities, MLK-Jefferson School Site, Trenton, NJ.** May 2005 to December 2011. 3,171 hours. *Reference: Mr. Bob Ryan, NJ School Development Authority, P.O. Box 991, Trenton, NJ, 08625.*

Mr. Kurisko was responsible for coordinating and planning all remedial activities in conjunction with the on-site remedial contractor. Remedial activities included the removal of historic fill material and remediation and disposal of RCRA waste contaminated soil, and post excavation sampling of all on-site AOCs. Mr. Kurisko also setup and maintained all community air monitoring and on-site data retrieval and testing equipment used during the cleanup. Mr. Kurisko also performed all on-site density testing work using a nuclear gauge to ensure proper engineering control of placement of clean-fill material.

- **Quality Assurance/Quality Control Officer and Health & Safety, OENJ Cherokee/Bayonne Landfill, Bayonne, NJ.** July 1998 to July 2003. 5000 hours. *Reference: Mr. Steve Bruch, 150 E. Broad St., Columbus, OH, 43215. (614) 621-9000.*

Mr. Kurisko was responsible for the monitoring and testing of various streams of fill material used for site remediation to ensure compliance with all quality assurance/quality control regulatory issues for the OENJ Cherokee/Bayonne Landfill site. Mr. Kurisko also oversaw all remedial activities including, slurry wall construction, leachate collection system construction, placement of PDM cap and provided air monitoring for health & safety compliance and directed personnel to enter Level C protection as required for drum and cylinder removal activities.

- **Oversee, Direct, and Report on Remedial Activities, GAF Industries Site Cleanup, South Bound Brook, NJ.** March 2004 to July 2006. 1,497 hours. *Reference: Mr. David Fischer, Matzel & Mumford, 110 Fieldcrest Avenue, Edison, NJ, 08818. (732) 888-1112.*

## Years Experience:

*With Firm: 16*

*Total Years: 16*

## Education

Rutgers University  
M.S. Environmental,  
New Brunswick, NJ,  
1979

Villanova University  
B.S. Biological  
Sciences, 1974

## Registration

### Certifications

- NJ Licensed Site Remediation Professional (LSRP)
- OSHA 40-hr Hazardous Waste Operations & Emergency Response (Refresher March 7, 2012)
- OSHA Field Supervisor
- Certified Nuclear Gauge Operator Certification (HAZMAT Refresher Sept. 2011)
- DOT Hazardous Material Transportation Certification
- NJ Certified Wetland Delineator
- Corporate Radiation Safety Officer
- LSRPA NJ Member

### Honors/Awards

- Letter of Commendation NJDEP Commissioner Jerry Fitzgerald English, 1981 (Water Supply Crisis)

Mr. Kurisko was responsible for coordinating and planning all remedial activities in conjunction with the on-site remedial contractor. Remedial activities included the removal of petroleum hydrocarbon contaminated soil and groundwater, remediation and disposal of TSCA contaminated PCB soil, and post excavation sampling of all on-site AOCs. Mr. Kurisko also provided an initial ecological assessment of the adjacent D & R Canal area and identified AOCs along the canal that were also remediated.

- **Oversee, Direct, and Report on Remedial Activities, NY/NJ Port Authority (192 Tyler Street), Newark, NJ.** June 2007 to January 2008. 557 hours.

*Reference:*

Mr. Kurisko was responsible for the oversight, coordination, and reporting on all remedial activities involving the identification, segregation, packaging, and disposal of hazardous and non-hazardous waste found in an abandoned warehouse at the NY/NJ Port Authority complex. Mr. Kurisko drafted the final remediation report for this project.

- **Oversee, Direct, and Report on Remedial Activities, 5711 Kennedy Boulevard, North Bergen, NJ.** September 2007 to January 2009. 315 hours.

*Reference:*

Mr. Kurisko was responsible for coordinating and planning all remedial activities in conjunction with the on-site remedial contractor. Remedial activities included the removal of petroleum contaminated perched groundwater, contaminated soil and debris removal, and post excavation sampling of all on-site AOCs. Mr. Kurisko also setup and maintained all air monitoring and on-site data retrieval and testing equipment used during the cleanup.

- **Oversee, Direct, and Report on Activities, ILR Landfill, Edison, NJ.** January 2005 to January 2012. 1,580 hours. *Reference: Mr. Gary Lotano, Industrial Land Reclaiming, Inc., 9 Central Avenue, Toms River, NJ 08753.*

Mr. Kurisko was responsible for supervising, coordinating and implementing various landfill system modifications, on-site well sampling, and on-site monitoring well installation. Mr. Kurisko also set up and maintained all on-site data retrieval and testing equipment used during landfill system evaluation and repair.

## Randy S. Kertes, PG, CPG

Randy Kertes (Director, Land Use & Environmental Services) holds a B.S. in Geology from Rider University in New Jersey, and an M.S. in the same field from the University of Cincinnati. He has over 25 years of professional experience in the environmental consulting and land development fields. His expertise is managing and directing technical assessments during the due diligence process for real estate transactions. In addition, he has provided testimony relating to environmental remediation and the minimization of adverse impacts for residential and commercial developments. Mr. Kertes is also an Adjunct Instructor and Rider University in the Geological, Environmental & Marine Sciences Department.

- **Project Manager, Disch Construction Shoreline Restoration, Newark, NJ.** 2009 to 2011. 100 hours. *Reference: Mr. Warren Disch, Disch Construction, P.O. Box 1412, Summit, NJ, 07901. (908) 273-3500.*

The client desired waterfront sites to relocate its dredging operations. Mr. Kertes oversaw and directed the preparation of the NJDEP Waterfront Development permit as well as the applicable USACOE wetlands permits. As part of the application process, Mr. Kertes managed the preparation of the environmental compliance statement supporting these applications, detailing technical compliance with the Coastal Zone Management Rules. The environmental compliance statement included an analysis of and protection for various environmental resources, such as finfish migratory pathways, navigation channels, flood hazard areas, wetlands, wetland buffers, riparian zones, and historic and archaeological resources. SAI also assisted Disch with the preparation of an alternatives analysis for the proposed mooring and pier installation project.

- **Project Manager, Frank's Creek Restoration, Kearny, NJ.** 2009 to 2012. 400 hours. *Reference: Ms. Deb Brinkofski, NFI Real Estate, 71 West Park Avenue, Vineland, NJ, 08360. (856) 470-2724.*

Mr. Kertes managed this project to complete an alternatives analysis on the restoration and relocation of Frank's Creek along the eastern border of the property. Tasks included a subwatershed investigation and documentation of historical uses and land use changes since 1920's, a wetland delineation and benthic macro-invertebrate study, sediment and water quality sampling programs, and a baseline stormwater analysis. SAI completed conceptual and preliminary designs; met with key stakeholders and regulators (e.g., NJDEP, New Jersey Meadowlands Commission, U.S. Army Corps of Engineers, and Hudson County); submitted permit applications for the NJDEP, New Jersey Meadowlands Commission, Army Corps of Engineers, and Hudson County; prepared final design; and prepared construction and bid documents. Project goal is to improve both parking issues at the facility and create wildlife habitat in a degraded, urban setting.

- **Project Manager of Land Use Permits, ILR Landfill, Edison, NJ.** 2011 to 2012. 100 hours. *Reference: Mr. Gary Lotano, Industrial Land Reclaiming, Inc., 9 Central Avenue, Toms River, NJ 08753. (732) 914-8600.*

### Years Experience:

*With Firm: 5*

*Total Years: 26*

### Education

University of Cincinnati  
M.S., Geology, 1996

Rider College  
B.S. - Geology, 1984

### Registration

### Certifications

Professional Geologist,  
TN  
Certified Professional  
Geologist AIPG  
-OSHA 40-hr  
Hazardous Waste  
Operations &  
Emergency Response  
(Refresher Mar. 2013)

For long-term client ILR, Mr. Kertes assumed responsibility for applying for all necessary land use permits related to post-closure maintenance. Landfill has groundwater/leachate collection and gas collection systems.

- **Project Manager for Remedial Investigation, Trenton Capital Park, Trenton, NJ.** 2009 to 2011. 200 hours. *Reference: Mr. Hank Bishop, Wallace, Roberts & Todd, 1700 Market Street, 28<sup>th</sup> Floor, Philadelphia, PA, 19103. (215) 732-5215.*

SAI was chosen to assist the architectural firm of Wallace, Roberts & Todd (WRT) in the redevelopment of a new Capitol Park area on the waterfront in Trenton. SAI is assisting WRT on two specific portions of the overall project: the Commons Project, and the Petty's Run project. Mr. Kertes' duties include oversight of Remedial Investigation, preparation of Remedial Action Workplan, and all environmental/permitting issues.

- **Project Manager, C.P. Chemicals, Inc. , Sewaren, NJ.** 2010 -- Present. 200 hours. *Reference: Mr. Ed Cacace, 200 East Bridge Street, Morrisville, PA, 215-428-3647.*

Mr. Kertes assisted the client in meeting its obligations under an Administrative Consent Order to discharge the effluent from the wastewater treatment plant to the Middlesex County Utilities Authority. Portions of the pipeline transected protected wetlands, which required various permits. Mr. Kertes assisted with design of that portion to minimize the disturbance and facilitate wetland restoration according to applicable wetland regulations, and with permitting issues.

# Matthew J. Brener, P.E.

## Field Assessment

*Mr. Brener is an experienced environmental engineer with over 14 years of experience leading complex private and public sector urban redevelopment projects. Mr. Brener brings to these projects a firm understanding of the Program Management and Environmental Remediation process, excellent written and oral communication skills, and advanced computer proficiencies including database programming and application development, BIM, GIS and AutoCAD operation, and project scheduling and estimating software including Microsoft Project & Primavera.*

*Services provided for BRS projects include: Owner's Representation and Construction Program Management including Program Financial Control; developing and managing program budgets, estimates and production schedules; oversight of professional consultants, engineers, architects, and contractors; environmental planning and technical assistance with environmental assessment and remediation; community outreach and stakeholder relationship management.*

### **HUD Environmental Review Records Program Management**

**Dates: 2010-2011**

**Client: Camden redevelopment Agency, New Jersey**

Olivette Simpson, Director of Housing  
520 Market St., City Hall-Suite 1300, Camden, NJ 08101-5120  
olsimpso@ci.camden.nj.us  
Tel: (856) 757-7600

In 2010-2011, Mr. Brener provided oversight for the implementation of the preparation of Environmental Review Records (ERR) for the Camden Redevelopment Agency (CRA) Neighborhood Stabilization Program II (NSP2). The program included six different redevelopment areas throughout Camden City and included over 100 separate parcels of varying size. Mr. Brener coordinated with HUD personnel, wrote detailed scopes of work and Requests for Proposals (RFP) for the ERR project to guarantee compliance with 24 CFR Part 50 regarding the HUD environmental compliance process, and the special time-sensitive requirements of American Recovery and Reinvestment Act (ARRA) of 2009. The RFP detailed the regulatory requirements and formats of the ERR and provided criteria for the proper level of review (i.e. Categorical Exclusions, Environmental Assessments, etc.). Mr. Brener received, reviewed and scored RFP submissions from all pre-qualified respondents, and provided recommendations to CRA for selection of the appropriate consultant.

### **Years of Experience:**

*With Firm:*

5

*Total Years:*

14

### **Education**

B.S. - Environmental Engineering, Louisiana State University, 1993

### **Certifications**

P.E. (Licensed Professional Engineer)

### **Technical Lead, New York City Brownfield Incentive Grant Program**



**BRS**  
Brownfield Redevelopment Solutions, Inc.

njbrownfield.com  
PO Box 107, Camden, NJ 08101  
t (856) 964-6456 f (732) 782-0404

**Dates: 2010-present**

**Client: City of New York / New York City Economic Development Corporation**

Daniel Walsh, PhD, NYC Mayor's Office of Environmental Remediation  
253 Broadway, New York, NY 10007

[DWalsh@cityhall.nyc.gov](mailto:DWalsh@cityhall.nyc.gov)

Tel: (212) 676-0386

Mr. Brener serves as the Technical Lead for BRS's role as Program Administrator for the NYC Mayor's Office of Environmental Remediation (OER) Brownfield Incentive Grant program. He is responsible for the development and implementation of the web-based Program Portal. The portal serves as the comprehensive database management system to manage and store all program documents, allow for access by multiple parties including regulating entities involved in the program, and provide for the management and integration of financial information and integration with the larger portal. Mr. Brener's role as Technical Lead includes the following:

- Development of requirements document and detailed application design in coordination with OER staff and IT Contractors,
- Detailed multi-phase Users' Acceptance Testing of Program Portal,
- Trouble shooting and design of program enhancements; and
- Writing, implementation and support of training and user documentation.

**Assistant Program Manager, Economic Development Master Contract**

**Dates: 2008-present**

**Client: City of Trenton, New Jersey**

JR Capasso, Division of Economic Development  
319 East State Street, Trenton, NJ 08608

[jcapasso@trentonnj.org](mailto:jcapasso@trentonnj.org)

Tel: 609-989-3501

Mr. Brener provides Program Management to City of Trenton's Division of Economic Development on infrastructure and land development projects including construction program management, environmental planning, restoration and remediation, and park construction and rehabilitation. Projects completed for the City of Trenton include the environmental restoration of a segment of the Petty's Run's stream in downtown Trenton City and coordinating with the Army Corps of Engineers on a stream daylighting project that will remove 500 feet of the Lower Assunpink Creek from a buried concrete culvert and restore the area to its natural riparian habitat. Mr. Brener's involvement with these projects include funding identification, grant application writing, grant program management and project implementation.



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# Michele L. Christina

## Field Assessment

*Brownfield Redevelopment Solutions (BRS) provides a wide range of brownfield management and implementation services for both public and private sector clientele. As co-owner of BRS, Michele Christina oversees redevelopment projects on environmentally compromised property through project inception to cleanup and completion of regulatory approvals. Services performed for clientele on brownfield redevelopment projects include: creation and management of public sector brownfield programs, identification and selection of brownfield developers, identification and administration of redevelopment and environmental funding sources, environmental planning, technical assistance for environmental investigations and cleanups, management of environmental contractors, service as a liaison between various regulatory agencies and provision of community outreach.*

- **Consultant, New Jersey Institute of Technology, Technical Assistance to Brownfields (TAB) Program.** (2005 to present) Ms. Christina has worked extensively with the New Jersey Institute of Technology on numerous training programs to assist communities with the development and implementation of successful brownfields programs. This work includes partnering with the US EPA Region 2 Brownfields Team to present workshops throughout the region on how to prepare winning EPA Brownfield Assessment, Revolving Loan Fund, and Cleanup grant applications to provide training and advice to prospective brownfield grantees. In addition, Ms. Christina led efforts to develop grant writing workshops, grant critique workshops, and grant implementation workshops throughout EPA Regions 1, 2, and 3, and the preparation and delivery of numerous webinars on topics to include how to manage an EPA brownfields grant and how to comply with federal reporting and procurement requirements. *Reference: Elizabeth Limbrick, New Jersey Institute of Technology, 495 Fenster Hall, University Heights, Newark, NJ 07102-1982 [limbrick@ADM.NJIT.EDU](mailto:limbrick@ADM.NJIT.EDU) (973) 596-5519*
- **Grant Writer, numerous clients.** (2003 to present) Ms. Christina has extensive experience with successfully preparing a variety of community development funding applications that address the gambit of land reuse designations to include aspects for housing, industrial, commercial, and open space redevelopment projects. She has also been successful as serving as the project administrator on several grant awards. Ms. Christina is part of the team that has prepared applications garnering over \$15 million in USEPA assessment, clean-up, and revolving loan fund awards in the last eight years. She has prepared and negotiated Cooperative Agreements for a variety of federal funding entities to include US Department of Transportation, US Department of Housing and Urban Development, US Economic Development Administration and the US Environmental Protection Agency. Ms. Christina has also participated in the development of applications garnering almost \$57 million in state and federal funding for various public sector and non-profit clientele over the last eight years.

### Years Experience:

With Firm:

9

Total Years:

24

### Education

B.S. – Environmental Science and Biology, Chemistry concentration, Westminster College, 1988



**BRS**  
Brownfield Redevelopment Solutions, Inc.

[njbrownfield.com](http://njbrownfield.com)  
PO Box 107, Camden, NJ 08101  
(856) 964-6456 (732) 782-0404



BRS boasts a grant application award rate of 90%. *Reference: Benjamin Delisle, Jersey City Redevelopment Agency, 30 Montgomery St. - Suite 900, Jersey City, NJ 07302-3821 [DelisleB@jcnj.org](mailto:DelisleB@jcnj.org) (201) 547-5604*

- **Brownfield Program Manager, various clients.** Ms. Christina has extensive experience providing a suite of highly specialized brownfield program support services necessary for public sector clients to interact with regulators, plan for and manage their brownfield programs. Work includes planning, inventorying, managing, providing community outreach and education support, obtaining funding and implementing brownfield redevelopment projects. She has served as the Brownfields Coordinator for the City of Trenton, New Jersey. Actions conducted included assisting in setting redevelopment priorities, obtaining grant funds, writing requests for proposals for engineering work, providing contractor oversight, and serving as liaison with the state and federal regulators to bring projects to completion. Ms. Christina has also developed databases for various municipalities in the State of New Jersey to assist with tracking progress and reporting requirements for brownfield sites within their jurisdiction. *Reference: James Harveson, Camden Redevelopment Agency, City Hall, Suite 1300, PO Box 95120, Camden, NJ 08101-5120 [JaHarves@ci.camden.nj.us](mailto:JaHarves@ci.camden.nj.us) (856) 757-7296*
- **Facilitator, various clients.** Ms. Christina has experience in facilitating discussions and disseminating technical information to a wide swath of audiences including community groups, local officials, and regulators to support land use and redevelopment decision making processes. For example, she has served as a community liaison for USEPA Region II outreach support for Interagency Work Group (IAWG) meetings. This involved preparing and guiding the local communities in New York, New Jersey and Puerto Rico with their presentations to the federal and state regulators, identifying the appropriate agency representation, assisting with the preparation of meeting debriefing material, and developing a record of the meetings. Ms. Christina also served as a liaison between the City of Trenton and a local residential community group, the NCIA, with efforts to understand and reach a consensus regarding the redevelopment of the contaminated Magic Marker Site. In this role, she attended monthly community meetings to assist the NCIA with their efforts to effectively provide input to the project and to provide the NCIA with an understanding of the real risks associated with living adjacent to a contaminated site. She has also provided community outreach and meeting preparation services to assist the Town of Fort Edward, New York with facilitating resources from a myriad of Federal and State Agencies to assist the community realize their revitalization objectives. This included meeting facilitation and preparation of the subsequent plan of action for each meeting. *Reference: Vince Pitruzzello, USEPA Region 2, 290 Broadway, 18th Floor, New York, New York 10007, [Pitruzzello.Vince@epamail.epa.gov](mailto:Pitruzzello.Vince@epamail.epa.gov) (212) 637-4354*



# Kevin McAllister, P.G.

## Professional Geologist, BRS

*As a Professional Geologist Mr. McAllister oversees redevelopment projects on environmentally compromised property from project inception through cleanup and completion of regulatory approvals for Brownfield Redevelopment Solutions (BRS). Services performed for clientele on brownfield redevelopment projects include: identification and administration of funding sources, technical assistance and contractor oversight for environmental investigations and cleanups; community involvement and public outreach; and service as a liaison between the client, various regulatory agencies, and other redevelopment stakeholders. Projects range from ASTM/USEPA AAI-compliant Phase 1 ESAs at numerous commercial properties nationwide; complex site characterization at CERCLA and other industrials sites; to design, implementation and operations of soil and groundwater remediation systems.*

- **Brownfield Project Manager, Trenton, NJ** (September 2008 to present) Mr. McAllister manages numerous brownfield projects for the City of Trenton, including establishing the scope of work, development of the request for proposals, evaluation of consultant proposals, oversight of the work, and approval of invoices. Such sites include six separate sites located within a floodplain and targeted for recreational and open space development. *Reference: JR Capasso, City of Trenton, City Hall, 319 East State Street, Trenton, NJ 08608*  
[jcapasso@trentonnj.org](mailto:jcapasso@trentonnj.org) (609) 989-3501
- **Brownfield Project Manager, Plainfield, NJ** (September 2008 to present) Mr. McAllister is responsible for managing the Brownfield Program for the City of Plainfield, including participating at quarterly stakeholder meetings, working with municipal officials to establish priorities, establishing the scope of work for selected sites, development of the request for cost estimates, recommendations for contract awards, oversight of the work, and approval of invoices. *Reference: Jacques A. Howard, Department of Public Works and Urban Development, City of Plainfield, 515 Watchung Avenue, Plainfield, NJ 07060*  
[jacques.howard@plainfield.com](mailto:jacques.howard@plainfield.com) (908) 226-2519
- **Brownfield Project Manager, Camden, NJ** (September 2008 to present) Mr. McAllister manages several brownfield projects for the Camden Redevelopment Authority (CRA). His work includes strategic planning for remediation and redevelopment of former industrial properties; development of solicitations; and assistance in the procurement of engineering firms and contractors in accordance with USEPA, NJDOL, and local procurement and labor regulations. Mr. McAllister then works with the selected consultants throughout the site remediation project to ensure that project goals regarding property reuse, regulatory and grant compliance, efficiency of efforts, public involvement, and public and worker safety are maintained. *Reference: James Harveson, Camden Redevelopment Agency, City*

### Years Experience:

With Firm:

3.7

Total Years:

22

### Education

M.S. – Applied Geosciences, University of Pennsylvania, In Progress

B.A. – Geology, Temple University, 1987

### Areas of Specialization

New Jersey Site Remediation Regulatory Framework

Groundwater Contamination Fate and Transport

Site Redevelopment Strategies



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Hall, Suite 1300, PO Box 95120, Camden, NJ 08101-5120 [JaHarves@ci.camden.nj.us](mailto:JaHarves@ci.camden.nj.us)  
(856) 757-7296

- **Grant Administrator, Brownfield Incentive Grant (BIG) Program** (2011 to present) Mr. McAllister is the technical administrator for the New York City Brownfield Incentive Grant program, responsible for reviewing all technical documents for regulatory compliance to justify expenditures of grant funds. *Reference: Cavy Chu, PE, NYC Mayor's Office of Environmental Remediation, 253 Broadway, 14th Floor, New York, NY 10007 [CavyC@dep.nyc.gov](mailto:CavyC@dep.nyc.gov) (212) 788-3774*
- **PRP Group, Abandoned Industrial Site, Farmingdale, NY** (September 1999 to February 2005) Responsible for remedial investigation and remediation feasibility testing at NPL site with chlorinated solvents and metals in soil and groundwater. Performed construction management of remediation and groundwater recovery well systems. *Reference: Bruce Amig, Goodrich Cor., Four Coliseum Centre, 2730 West Tyvola Road, Charlotte, North Carolina, USA 28217-4578, (704) 423-7000*
- **Tribal Government/Bureau of Indian Affairs, Isleta Pueblo, Isleta, NM** (1993 to 1995) Project Manager and lead author for community-wide Solid Waste Management Plan. Led effort to evaluate community solid waste generation and disposal practices, and identification of and planning for immediate and future needs. Led public meetings for information exchange, and presentations to Tribal Council regarding results of study, RCRA Subtitle D requirements, and disposal options. *Reference: Blaine Sanchez, Isleta Pueblo Tribal Government, PO Box 1270, Isleta, NM 87022, (505) 869-5748*
- **Service Station Owner, Cecil County, MD** (2010 to present) Lead technical resource for investigation and remediation of LUST case. Groundwater in fractured bedrock aquifer and local potable wells are impacted with petroleum compounds from historical leaking gasoline tanks. Project duties include groundwater investigation; monitoring and treatment of residential water supplies; design and feasibility testing of remedial systems. *Reference: Brenda MacPhail Kellogg, REPSG, 6901 Kingsessing Ave., Suite 201, Philadelphia, PA 19142 (215) 729-3220 x327*
- **PRP Group, Abandoned Chemical Dump Site, Burlington County, NJ** (1990 to 1992) Project Geologist for remedial investigation chlorinated solvents and heavy metals in soil, groundwater aquifers, and surface water at this large unregulated chemical dump in the environmentally sensitive Pinelands National Reserve. Supervised groundwater investigation program. *Reference: Rohm and Haas Compan, 100 Independence Mall West, Philadelphia, PA 19106-2399, (215) 592-3000*



# Leah B. Yasenchak, AICP/PP, CEcD/EDP

## Principal, BRS

*Ms. Yasenchak oversees redevelopment projects on environmentally compromised property through project inception to cleanup and completion of regulatory approvals. Brownfield Redevelopment Solutions (BRS) provides a wide range of brownfield management and implementation services for both public and private sector clientele. As co-owner of BRS, Ms. Yasenchak is the principal in charge of the firm's environmental planning, economic development, outreach and grant writing services. A primary role of BRS is as outsourced staff for municipalities as they seek to implement economic development initiatives on contaminated properties. Services performed for clientele on brownfield redevelopment projects include: identification of redevelopment and environmental funding sources, application for funding sources, administration of funding sources, training, environmental planning, technical assistance for environmental investigations and cleanups, management of environmental contractors, service as a liaison between various regulatory agencies and provision of community outreach and educational activities. Ms. Yasenchak is a leader in economic development, with over ten years of experience in assisting the City of Trenton's Department of Housing and Economic Development with revitalization efforts, and helping other communities plan for and implement economic development strategies. In addition, Ms. Yasenchak has significant planning expertise.*

- **Planner, various clients.** (2003 to present) Ms. Yasenchak is an AICP, PP Certified planner. She has authored multiple land use plans, including a comprehensive environmental review of the City of Camden to develop an industrial site inventory which can be used to target industrial and commercial development in the city. This project included a through planning study which analyzed the impact of current zoning, area redevelopment plans, and the proposed zoning ordinance on the overall availability of industrial land. This project won the Northeast Economic Development Area's 2008 Project of the Year award for its potential to reshape the way Camden attracts and retains industry. Ms. Yasenchak also developed the Comprehensive Economic Development Strategy (CEDS), a requirement of the US Economic Development Administration, for the City of Trenton through an extensive community input process. This work incorporated the requirements of the Consolidated Plan, a US Department of Housing and Urban Development requirement, so that the two plans reflected the same goals and objectives. Ms. Yasenchak has also authored Trenton's Municipal Stormwater Management Plan and Stormwater Pollution Prevention Plan, as well as the Open Space and Recreation Plans for the towns of Manasquan and Point Pleasant, NJ. Reference: JR Capasso, City of Trenton, City Hall, 319 East State Street, Trenton, NJ 08608 [jcapasso@trentonnj.org](mailto:jcapasso@trentonnj.org) (609) 989-3501
- **Grant Writer, various clients.** (2003 to present) Ms. Yasenchak has garnered millions of dollars in state and federal grants for brownfield redevelopment projects in Trenton, NJ; Newark, NJ; New York City, NY; Plainfield, NJ; Bucks

### Years Experience:

With Firm:

9

Total Years:

20

### Education

B.A. - Environmental Policy, The American University, 1990

M.A. - Public Administration of Environmental Policy, The American University, 1992

M.S. - Environmental Sciences and Policy, The Johns Hopkins University, 2002

PhD - Environmental Planning, Rutgers University, anticipated May 2012



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compressed timeframe in order to successfully expend grant monies, including activities such as budget management, site research and eligibility determination requests, grant reimbursements, and grant extension requests.

- **Funding Researcher, Animal Shelter Project, Newark, NJ** (January 2012 to present) Ms. Lander conducts grant research for potential private funding sources using multiple search products and organized a campaign to target and contact numerous potential funders. This involves coordination with the city, the local community development corporation, and multiple private and corporate foundations.
- **Brownfield Program Manager, Camden, NJ** (April 2008 to present) Ms. Lander manages USEPA grants to include procurement and oversight of environmental engineering firms, budget management, site eligibility determination requests, mandatory routine form and database reporting, grant reimbursements, grant extension requests, and close out procedures. In addition, Ms. Lander also conducted an analysis regarding the placement and possible relocation of industrial sites to underutilized properties and/or more appropriate neighborhoods. This included providing recommendations to the city to further the advancement of strategic industrial development objectives and create and maintain employment opportunities.
- **Stakeholder Educator, Washington, DC** (January 2004 to October 2006) Ms. Lander independently authored success stories, white papers, case studies, and briefings regarding a range of revitalization-related issues for a variety of audiences. Topics included property transfer mechanisms, the ecological benefits of land restoration and preservation, and how to successfully inventory brownfield sites.
- **Federal Initiative Manager, Portfields, Washington, DC** (March 2004 to July 2006) Ms. Lander served as the contracted task manager for a federal interagency partnership addressing brownfields in and around waterfront areas, with an emphasis on the development of environmentally-sound port facilities, led by the USEPA and NOAA. Actions conducted included stakeholder meeting support, assisting in the development of an informational DVD, and creating printed materials about the two-year long initiative.
- **Economic Analyst, Washington DC** (May to August 2003) Ms. Lander coordinated District of Columbia-based community organizations that identified and assessed fiscally wasteful programs that also negatively impacted the environment in the city's budget. Ms. Lander co-authored a report that highlighted proposals, some of which were ultimately put into action by the city, which could have led to more than \$642 million in budget savings. These proposals addressed issues like property taxes on vacant land, public access to greenspace, stormwater runoff, combined sewage overflows, and the District's government vehicle fleet.



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Andrea Mules  
Assistant Environmental Analyst, BRS

*Ms. Mules is an environmental analyst with Brownfield Redevelopment Solutions, Inc (BRS), with experience from numerous projects regarding environmentally compromised property in various stages of development. Services performed for clientele on brownfield redevelopment projects include: support of public sector brownfield programs and initiatives; application and administration of redevelopment and environmental funding sources; grant writing, document preparation and reporting; meeting facilitation; and data collection and organization to determine success metrics.*

- **Grant Administrator, Brownfield Incentive Grant (BIG) Program** (March 2010 to present) Ms. Mules assisted in the development of the New York City Brownfield Incentive Grant program, and serves as the administrator. Responsibilities include entering information from applications as received, responding to inquiries and providing information and assistance regarding the grant program, and reviewing applications for completeness.
- **Grant Manager, USEPA Brownfield Grants, Trenton, NJ** (March 2010 to present) Ms. Mules organizes stakeholder meetings, and prepares meeting materials and minutes for quarterly stakeholder meetings. In addition, Ms. Mules is responsible for required reporting to include quarterly reports, MBE/WBE reports, no cost time extension requests, ACRES reporting, and close out requirements for multiple assessment and cleanup grants.
- **Grant Manager, USEPA Brownfield Grants, Plainfield, NJ** (March 2010 to present) Ms. Mules organizes and prepares meeting materials and minutes for quarterly stakeholder meetings. In addition, Ms. Mules is responsible for required reporting to include quarterly reports, MBE/WBE reports, financial reports, drawdown requests, no cost time extension requests, ACRES reporting, and close out requirements for multiple assessment and cleanup grants.
- **Funding Researcher, Wilmington, DE** (March 2010 to present) Ms. Mules conducted grant research for recycling projects in Wilmington, DE, including facilitating meetings with potential funders and devising strategies to maximize the competitiveness of the grant applications.

**Years Experience:**

*With Firm:*

2.4

*Total Years:*

6

**Education**

M.S. - Environmental Studies,  
University of Pennsylvania, 2009

B.A. - English, Rutgers University, 2004



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**ANDREW LEUNG, P.E.**  
**Principal/Project Manager**

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### **EDUCATION AND TRAINING**

University of Illinois, Master of Science in Geotechnical Engineering -1982  
University of London, University College, Bachelor of Science in Civil Engineering -1980

### **Special Courses:**

Designing with Geosynthetics, Geosynthetic Research Institute - 1990  
Various Geosynthetics Research Institute Round tables and Seminars -1991 to 1995  
CSX Corporation Rail Safety Training - October 2007

### **REGISTRATION**

Professional Engineer - New York, New Jersey, 1985

### **EXPERIENCE SUMMARY**

Mr. Leung has over 30 years of technical and project management experience in environmental and geotechnical engineering for the planning, design, construction, and rehabilitation of various civil works. His experience includes all phases of hazardous and solid waste management projects. His technical experience has focused mainly on environmental assessment, remedial design, groundwater monitoring, hydrologic and hydraulic evaluations, and geotechnical and geophysical investigations. Types of projects include housing, transportation infrastructure design, airports, port, waterfront, sanitary landfills, dams, and residential and commercial buildings.

### **REPRESENTATIVE PROJECTS**

**Gladys Hillman Jones High School, Newark, NJ** - Principal responsible for overseeing geophysical survey, drilling and UST removal operations and preparation of UST closure report. Work involved locating USTs by test pits, prepare UST facility questionnaire, collect post excavation samples after removal of contaminated soil and installation of monitoring well to evaluate ground water quality and coordinate with disposal facility for removal of petroleum impacted soil.

*Mr. Jeffrey Moon, Timber architect, 609-394-3222*

**Early Childhood Center 13, Jersey City, New Jersey, NJSCC** – Task Manager responsible for performing a site investigation of properties proposed for acquisition by NJSCC as part of the new early childhood center construction. Investigation included a geophysical survey for UST, and intrusive methods to investigate potential areas of concern including USTs, historical fill, automotive repair facilities and groundwater. Prepared bid specifications and PAECER for properties proposed for acquisition.

*Mr. Gary Skowronski, NJSDA, 609-3411-5979*

**New Jersey School Development Corporation, Public School PS 5, West New York, NJ** – Project Principal responsible for asbestos, lead paint and PCBs investigations of the exterior elevations. YU team sampled and tested the suspect materials from the façade elevations where potential ACM and LBP were revealed. Cost estimates for several potential options of repair and abatement were contemplated. Hazardous Materials abatement design is ongoing.

*Mr. Randall E. Vieser, NJSDA, 609-292-1433*

**Multiple NJSCC School Projects** – Project Engineer responsible for Preliminary Assessment and Site Investigation for multiple proposed schools and school expansions including New North Ward School in Newark, NJ; Early Childhood Development Center No. 13, P.S. No. 35, and P.S. No. 39 in Jersey City, NJ. Projects performed and reported in conformance with NJSCC specifications for feasibility and design phases. Responsibilities included review analytical

**ANDREW LEUNG, P.E.**  
***Representative Projects (Cont'd)***

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laboratory report, prepared sampling summary report and delineation of contaminations per NJDEP regulations. Also prepared EO215 and the Property Acquisition Environmental Cost Estimate Reports (PAECERs) for the proposed expansion of school.  
*Mr. Gary Skowronski, NJSDA, 609-3411-5979*

**Northern Branch Corridor Study, North Bergen to Tenafly, NJ Transit** - Served as Project Principal responsible for the design and implementation of the environmental investigations program in accordance with NJ Tech Reg. (N.J.A.C. 7:26E) throughout the proposed rail alignment. Provided supervision during the environmental assessment which will be used to develop recommendations for preventing exposure to subsurface and surface contaminants during construction as well as disposal of contaminated soil and groundwater. Preparation of site work plan and site specific health and safety plan, document research, boring and sampling analyses, data evaluation and engineering reports were performed.  
*Mr. Stanley Wiecek, HNTB, 212-594-9717*

**Montclair State University Parking Garage, Little Falls, NJ** - Principal responsible for preparation of the Preliminary Assessment (PA) report for proposed four story parking garage construction. Responsibilities included conducting site reconnaissance and reviewing standard and local agency information, historical Sanborn and topographical maps and preparing a PA report in accordance with NJDEP Technical Regulation.  
*Mr. Steve Lang, Prismatic, 973-882-1133*

**E-Designated Site 339 West 36th Street Remedial Action, New York, NY** - Project Manager responsible for CEQR compliance, remedial investigation and remedial action activities. Specific tasks included subcontractor coordination, waste classification sampling and resultant data evaluation, observation of contaminated soil excavation and disposal, monitoring of air and dust levels, preparation of Remedial Action Report, and correspondence with regulatory agencies. Also responsible for evaluating air quality heating ventilation and air conditioning (HVAC) for the proposed system to ensure compliance with applicable zoning emissions regulations.  
*Mr. Shing Wah Yeung, Wellcome Holdings, 646-739-6815*

**Parking Facilities for the Bronx Parking Development Authority Company, Bronx, NY** - Project Manager responsible for activities in relation to the Supplemental Environmental Investigation (SEI) for proposed parking facilities and associated soil disposal activities. SEI responsibilities included development and execution of a field sampling plan, development of a site-specific Health and Safety Plan, subcontractor coordination, observation and contaminant screening of soil borings, soil and groundwater sample collection, preparation of SEI report, data evaluation, and development of soil disposal recommendations and associated specifications. Additional responsibilities included development of a waste classification sampling plan and supplemental delineation sampling plan, disposal facility correspondence and coordination, UST closure and associated Remedial Action Report preparation.  
*Mr. Steve Lang, Prismatic, 973-882-1133*

**552 West 24th Street Redevelopment Project, New York, NY** - Principal responsible for providing environmental engineering services for a proposed redevelopment. Evaluated the extent and degree of contamination through SI and RI. Conducted remedial design and implemented Remedial Action (RA) Work Plan. Evaluated the best management processes to be employed for remediation. Implemented cost effective soil and groundwater remediation alternatives including UST excavation and Oxygen Release Compound® (ORC) usage. Provided recommendations to minimize costs associated with the potential environmental risks.  
*Mr. Peter Poon, Peter Poon Architect, 212-941-6800*



# Tab 7 Experience of Bidder on Contracts of Similar Size and Scope

## Similar Work Performed

*The CDM Smith Team presents summaries of key project examples that demonstrate our level of understanding and experience providing environmental and historic preservation compliance reviews to satisfy HUD CDBG-DR and FEMA requirements. These examples were selected for their relevance to the many aspects of this environmental and historic preservation review project, the involvement of key staff proposed for our project team, and the successful outcomes achieved for our clients.*

CDM Smith has completed environmental review work on six contracts with size and scope similar to the work we would perform under this RFQ. Four of the six contracts involve HUD-funded disaster recovery projects, one involves HUD-funded projects not related to a disaster, and one involves FEMA-funded hazard mitigation projects. Environmental reviews completed under these contracts are described below, and the components of five of the six contracts are summarized in Table 7-1 on the next page. CDM Smith's work for the City of Chicago is not in the table because it has not been tracked using the categories in the table.

## CDBG-DR Homeowner Program Management and Environmental Reviews

Harris County (Houston), Texas

Hurricane Ike made landfall in Texas in September 2008 and damaged or destroyed a significant portion of the housing stock of Harris County, which includes the City of Houston. Through the Texas General Land Office's Texas CDBG Program, Harris County received \$47 million in HUD CDBG-DR funding. CDM Smith worked with the Harris County Community Services Department to assist residents whose homes had been damaged or destroyed by Hurricane Ike. CDM Smith completed

a tiered environmental assessment in conformance with HUD regulations for the County's rehabilitation, reconstruction and buyout programs. Site-specific reviews for 621 single-family homes were completed. The proposed work on many homes changed from rehabilitation to reconstruction after the site-specific review was completed and approved by the state. As a result, CDM Smith performed reevaluations of the initial environmental findings for 152 properties.



CDM Smith completed HUD's 8-step floodplain decision making process as part of the Harris County project, and performed noise analysis for each home that was reconstructed. Tanks at petroleum refineries caused issues related to HUD's requirement of an "acceptable separation distance" from stationary containers holding flammable or explosive substances. Throughout the course of this project, CDM Smith formulated an efficient system for performing site-specific environmental reviews for large numbers of properties.

As part of our contract with Harris County CDM Smith is also:

- Operated Housing Assistance Centers to provide residents with information on how to obtain assistance to repair or rebuild their homes and to verify eligibility for assistance

Tab 7 • Experience of Bidder on Contracts of Similar Size and Scope

Table 7-1. Environmental Reviews Completed Under Contracts of Similar Size and Scope						
Types of reviews and facilities	Harris County, Texas	Illinois Disaster Recovery Program	MS Development Authority Public Housing Program	Minot, North Dakota	FEMA Hazard Mitigation Technical Assistance Program	Total
Tiered housing reviews (not buyout)						0
Environmental assessments (EAs)	1	2	0	1	0	4
Units of single-family housing <sup>1</sup>	621	53	0	61	0	735
Units of multifamily housing <sup>2</sup>	0	0	0	0	0	0
Categorically excluded activities (CEs)	0	7	0	0	0	7
Units of single-family housing <sup>1</sup>	0	114	0	0	0	114
Units of multifamily housing <sup>2</sup>	0	0	0	0	0	0
Stand-alone housing reviews						0
Environmental assessments (EAs)	0	0	15	0	0	15
Units of single-family housing <sup>1</sup>	0	0	662	0	0	662
Units of multifamily housing <sup>2</sup>	0	0	1,268	0	0	1,268
Categorically excluded activities	0	0	6	0	1	7
Units of single-family housing <sup>1</sup>	0	0	244	0	123	367
Units of multifamily housing <sup>2</sup>	0	0	262	0	0	262
Total units of single-family housing <sup>1</sup>	621	167	906	61	123	1,878
Total units of multifamily housing <sup>2</sup>	0	0	1,530	0	0	1,530
Total units of housing	621	167	2,436	61	123	3,408
Stand-alone infrastructure reviews						0
Stand-alone infrastructure EAs	0	51	0	5	5	61
Stand-alone infrastructure CEs	0	25	0	1	3	29
Tiered Infrastructure EAs						1
Units of infrastructure	0	0	0	5	0	5
Tiered buyout EAs						8
Units of single-family housing <sup>1</sup>	1	6	0	1	0	8
Units of multifamily housing <sup>2</sup>	4	127	0	86	0	217
Nonhousing facilities	0	0	0	0	0	0
Nonhousing facilities	0	11	0	0	0	11
Stand-alone buyout reviews						3
Environmental assessments	0	3	0	0	0	3
Units of single-family housing <sup>1</sup>	0	8	0	0	0	8
Units of multifamily housing <sup>2</sup>	0	0	0	0	0	0
Nonhousing facilities	0	2	0	0	0	2
Categorically excluded activities	0	3	0	0	0	3
Units of single-family housing <sup>1</sup>	0	4	0	0	0	4
Units of multifamily housing <sup>2</sup>	0	0	0	0	0	0
Other stand-alone reviews						7
Other stand-alone EAs	0	6	0	0	1	7
Other stand-alone CEs	0	4	0	0	15	19
Environmental impact statement	0	0	0	0	1	1

<sup>1</sup>Includes units in buildings with one to four units, consistent with HUD regulatory categories

<sup>2</sup>Units in buildings with five or more units

- Conducting outreach programs to homeowners, municipalities, unincorporated areas and property owners to increase knowledge and acceptance of the program, and to provide advisory services regarding CDBG and other funding sources
- Accepting and processing applications for financial assistance and determining amounts of assistance
- Overseeing of repairs/reconstruction of eligible homes

CDM Smith is providing all aspects of grant management, administration, environmental review, monitoring and closeout activities for Harris County with the goal of improving residents' quality of life and restoring the region's economy.

**Harris County Community Development Services Department**

**Relevant Features**

- Environmental Reviews
- 8-Step Floodplain Analysis
- Housing Assistance Program
- Housing Repair/Rehabilitation
- Public Infrastructure
- Project Oversight
- Grant Management
- Public Participation
- Information Management System
- Damage Assessment
- Use of Xactimate® Software
- \$47 Million Program
- June 2009 – Ongoing

**Reference**

Daphne Lemelle, Community Development Director  
 (713) 578-2000  
 Daphne.lemelle@csd.hctx.net

See reference letter - End of Tab 7

rebuilding process and improve overall accuracy, efficiency and HUD compliance levels of our deliverables.

CDM Smith created a comprehensive grant management information system using "Intelligrants." This system provides County staff with an up-to-date status of all active projects. The software provides for data security, backup and privacy features as well as reporting requirements. The system also provides a financial accounting component which tracks all financial transactions including all contractor and subcontractor billings and payments. Reports are produced by the system for state and federal reporting

Damage assessments and work orders for over 1,800 residential homes were performed under the two programs. This work included scheduling directly with the homeowner, conducting an on-site damage assessment using a field tablet, performing a repair estimate utilizing the Xactimate® software platform and delivering a completed work order for contractors to begin construction. This process has been proven through hundreds of homes in our work in Houston, TX to streamline the

requirements, and program managers to maintain efficiency and effectiveness.

More than 1,200 applications have been submitted by Harris County homeowners. Of these more than 800 are expected to be eligible for awards ranging up to \$160,000. CDM Smith is working with applicants to promote program awareness and compliance with its rules, as well as mitigate fraud. Some homeowners may also be eligible for grant money to elevate their homes to mitigate future flooding damage. CDM Smith is also determining eligibility for Hazard Mitigation/Elevation grants. Homeowners may be eligible if their homes are located within the 100-year floodplain.

CDBG-DR programs come with a variety of restraints, requirements and regulations. CDM Smith is facilitating this process for Harris County through the efficient disbursement of funding, and implementing the use of these funds for various types of recovery projects.

**Illinois "Ike" and Midwest CDBG-DR Program and Environmental Reviews**

**State of Illinois**

Illinois experienced several flooding disasters in 2008, culminating with the flooding associated with Hurricane Ike. FEMA declared 41 counties eligible for funding, and the State of Illinois was awarded a total of \$211 million in HUD CDBG-DR funds. CDM Smith worked with the Illinois Department of Commerce and Economic Opportunity to evaluate grant applications and award grants to support housing rehabilitation, property buyout, economic development, and public infrastructure projects. CDM Smith then performed environmental review in accordance with 24 CFR Part 58 for the selected projects.

CDM Smith has completed the following environmental reviews:

- Two tiered EAs for work on a total of 53 single-family homes
- Seven tiered reviews for categorically excluded work on a total of 114 single-family homes
- Six tiered EAs for buyout of 127 single-family homes and 11 non-housing facilities
- Three stand-alone EAs for buyout of 8 single-family homes and 2 non-housing facilities
- Three stand-alone reviews for categorically excluded buyouts of 4 single-family properties
- Stand-alone EAs for 51 infrastructure projects and 21 reviews for categorically excluded infrastructure projects

- Stand-alone EAs for 6 additional non-housing projects and 4 additional reviews for categorically excluded non-housing projects

The flood-related infrastructure projects for which CDM Smith has completed environmental reviews include lift stations, backup generators, culverts, local pipelines, detention ponds and structures, local channel dredging and regrading, and flood walls. They include improvements to sanitary sewer systems to reduce backup into homes caused by storm water inflow and infiltration during major storms.

**Illinois Department of Commerce and Economic Opportunity**

**Relevant Features**

- Environmental Reviews
- Property Buyout
- Housing Repair
- Rental Housing Program
- Public Infrastructure
- Economic Development
- Communications Support
- Reporting Activities
- Technical Assistance
- Planning
- \$211M CDBG-DR Program
- June 2010 – June 2014

**Reference**

Frankie L. Atwater, MPA  
Acting Deputy Director  
(217) 558-4200  
frankie.atwater@illinois.gov

See reference letters - End of Tab 7



services for the CDBG-DR program. These assignments are being managed by CDM Smith to assist in the following areas:

- The Public Infrastructure program supports projects that FEMA or other sources cannot fund but are necessary for recovery. Projects include water/sewer systems, storm drainage systems, levee systems, generators for public utilities, and roads and bridges needing repair/restoration. CDM Smith is responsible for reviewing and rating more than 240 applications for the public infrastructure program, and is also monitoring programs for compliance with applicable regulations for procurement, fair housing, equal opportunity, civil rights, labor compliance, uniform

In addition to housing and infrastructure projects, CDM Smith has completed environmental reviews for projects involving commercial and industrial facilities, schools, a therapeutic facility for troubled youth, and infrastructure improvements as part of a mixed-use development.

Under this contract, CDM Smith personnel included in this proposal gained experience with environmental review of a wide range of HUD-funded activities and developed a streamlined procedure for preparation of environmental assessments that meet HUD requirements.

CDM Smith is providing program management

relocation act, environmental clearances, OMB Circular A-133 and duplication of benefits.

- Property Buyout is a voluntary program that allows property owners who own a home or business in a repetitive flood area to sell their property at pre-storm market value and move out of harm's way.
- Economic Development: This program includes a business assistance program, a community stabilization program and a small business stimulus program.
- Communications Outreach and Reporting Activities: CDM Smith prepared and supported outreach activities to connect with interested applicants. Outreach activities included postcard mailings, workshops, small business conferences and coordination with the Council of Governments (COGs) and Department of Commerce and Economic Opportunity outreach staff. CDM Smith developed application guidelines and administration manuals for the program applicants and grantees. CDM Smith is using the state's e-Grants and Grantee Reporting System to manage the applications, grant documentation and payments to grantees. CDM Smith has implemented IT solutions to support the program including SharePoint document management, a web-based GIS application to calculate Low to Moderate Income (LMI) for user-selected census blocks, and a supplemental financial tracking system (HDS) to aggregate beneficiary and other data for HUD reporting purposes.
- Planning and Technical Assistance Services: CDM Smith is providing capacity-building services to sub recipients to ensure they are in compliance with all applicable program requirements. Sub recipients must have the capacity to ensure that appropriate levels of financial control are in place along with policies and procedures that are sufficient to promote compliance with applicable requirements, including but not limited to: fair housing; nondiscrimination; labor standards; Section 3; acquisition and relocation; the environment; citizen participation; record retention; financial management; and procurement.

**Facilitating Repair and Replacement of Public Housing**

**Mississippi Gulf Coast**

Hurricane Katrina damaged or destroyed most public housing along the Gulf Coast. As part of a larger recovery effort, HUD provided \$100 million in the form of CDBG-DR funding to the State of Mississippi for repair and replacement of public housing. The Mississippi

Development Authority (MDA) retained CDM Smith to assist with environmental review of proposals by local and regional housing authorities on the Mississippi Gulf Coast to

**State of Mississippi**

**Relevant Features**

- Environmental Reviews
- Noise Assessments
- 8-Step Floodplain Analysis
- \$100M CBDG Program
- Noise Assessments
- 8-Step Floodplain Analysis
- Housing Repair and Replacement
- Damage Assessment Reviews
- Site Assessments (21 Developments)
- Policies and Procedures
- Construction Monitoring
- November 2006 – November 2009

**Reference**

Sara Watson, MDA  
 (601) 359-9344  
 SWatson@mississippi.org

repair or replace public housing damaged by Hurricane Katrina. Qualifying projects received an allocation from the \$100 million of federal CBDG Grant funds administered and distributed by MDA under its CBDG-DR Action Plan. The environmental reviews were completed in accordance with regulations of the U.S. Department of Housing and Urban

Development (HUD) in 24 CFR Parts 51, 55, and 58.

CDM Smith reviewed the initial damage reports and performed site assessments for 22 public housing developments in Hancock, Harrison and Jackson counties. Based on the results of the site assessments, the MDA was able to allocate CBDG-DR fund equitably among the five housing authorities.

CDM Smith worked with the MDA to develop the application process by which the housing authorities would apply for disbursement of the allocated CBDG-DR funding. Our work products included written policies and procedures and an application form. CDM Smith also reviewed the applications submitted by the housing authorities, including the proposed financing packages.

Under HUD regulations, most of the allocated CBDG-DR funds could not be disbursed to the housing authorities until the proposed repair and new construction work received environmental clearance. It was decided that environmental clearance would be granted on a site-by-site basis. As the housing authorities developed their site-specific plans to the point where a decision on environmental clearance could be made, CDM Smith performed environmental review of the proposed repair and new construction projects.

CDM Smith completed environmental review of 21 proposed projects, including 15 new construction projects

with a total of 1,930 housing units, 4 repair projects with a total of 244 housing units, and 2 purchases of existing apartment complexes with a total of 262 housing units. CDM Smith prepared a full environmental assessment under 24 CFR Part 58 for each new construction project. For the repair and purchase projects, CDM Smith completed statutory worksheets documenting compliance with federal laws and authorities listed in 24 CFR 58.5 and 58.6. Each completed environmental review includes measures that must be implemented during construction and operation of the development to minimize the potential for adverse impact on the residents and the environment.

CDM Smith completed a noise analysis in accordance with HUD's Noise Assessment Guidelines for more than 20 proposed housing sites. The analysis included noise from railroads, airports and highways.

For proposed work in the 100-year floodplain, HUD regulations require completion of the 8-step floodplain decision making process in 24 CFR Part 55. CDM Smith completed the 8-step process for 10 proposed public housing projects, including 8 new construction projects. Each 8-step process included an alternative sites analysis based on aerial imagery, zoning and tax maps, and mapping of floodplains and wetlands.

**FEMA/CDBG-DR Funded Flood Recovery**  
 Minot, North Dakota

In June, 2011, the City of Minot suffered substantial real estate and public infrastructure damage due to flood waters from the Mouse River (Souris River). Following the record 100-year flood event, the City was forced to evacuate more than 10,000 residents and was faced with failing public works infrastructure. Subsequently, the City was awarded a total of \$67.6 million in HUD CBDG-DR funds. CDM Smith performed environmental reviews in accordance with 24 CFR Part 58 for projects proposed under the CBDG-DR program.

**City of Minot, ND**

**Relevant Features**

- Environmental Reviews
- 8-Step Floodplain Analysis
- Disaster Recovery
- Preliminary Damage Assessments
- FEMA Funding
- Public Infrastructure
- Housing
- Rapid Mobilization
- Hazard Mitigation Funding
- A/E Services
- Construction Services
- September 2011 – June 2012

**Reference**

Cindy Hemphill, Finance Director  
 (701) 857-4784  
 Cindy.hemphill@minotnd.org  
 See reference letter - End of Tab 7

To date, CDM Smith has completed the following environmental reviews:

- One tiered EA for work on 61 single-family homes
- One tiered EA for acquisition of 86 single-family homes
- One tiered EA for 5 infrastructure improvements
- Five stand-alone EAs for infrastructure projects
- One categorical exclusion for an infrastructure project

Minot is not funding rehabilitation or reconstruction of homes in the 100-year floodplain. CDM Smith completed the 8-step process for homes to be acquired in the floodplain. At the request of HUD Region VIII, CDM Smith performed noise analysis for both rehabilitation and reconstruction of homes. The proposed infrastructure projects include addressing critical needs such as roadway extensions and regradings, utility installation and enhancements, parking facility development, and landfill expansion. In this project, CDM Smith has further refined its process for tiered environmental review of large numbers of home sites.

The city is utilizing FEMA Public Assistance (PA) reimbursement to address recovery of Minot's public works infrastructure, including:

- Wastewater collection and distribution systems
- Stormwater conveyance systems
- Roads and bridges, and traffic control systems
- Permanent and temporary levee systems
- Damaged building infrastructure and equipment

Under FEMA's PA program, CDM Smith completed Preliminary Data Assessments (PDAs) to accurately capture the scope of damages and costs to the city's infrastructure, and is ensuring the repair and/or replacement costs were reasonable. As part of the PA program, CDM Smith also assisted Minot in acquiring eligible Section 406 Hazard Mitigation Proposal Funding (HMP) originating from its FEMA PA Project Worksheets.

CDM Smith also assisted the city with their Right-of-Way Debris Removal Management Plan and their Stick Built Homes Demolition project.

CDM Smith is also providing project management services for A/E design and construction related services on the city's projects as each project moves into design, construction and closeout. The City also contracted with CDM Smith to help manage the FEMA portion of their



recovery. Total program management includes program delivery, grant monitoring and closeout activities.

CDM Smith is assisting the city with long-term CDBG-DR funded housing solutions including:

- Developing a rehabilitation grant program for homeowners impacted by the flood
- Opening a customer service center for direct applications
- Providing case management/counseling to all applicants
- Providing comprehensive public outreach
- Working with non-profits, private banks, the State of North Dakota and other governmental entities to provide a coordinated assistance to affected homeowners
- Facilitating the buy-out of properties in high risk areas
- Contracting for home rehabilitation/reconstruction services
- Coordinating grant management, financing and contracting for repairs with eligible candidates

The focus of the rehabilitation and reconstruction program for residential housing was LMI households. LMI households will be assisted with either rehabilitation or reconstruction of their homes depending on the severity of the damage. In addition, the Minot Disaster Recovery Program addressed a number of critical infrastructure components that were damaged or impacted by the flooding. The work under this program element includes:

- Repairing and expanding water and sewer services to foster housing development
- Providing infrastructure for developers fostering more affordable housing as a component of new development.
- Addressing landfill capacity issues due to debris generated by the flooding and recovery

- Providing planning and funding for several critical public works repair and mitigation projects

Specific programs which CDM Smith is administering include the Northern Housing Development Infrastructure – which will provide infrastructure for a new housing development outside the flood area with 51% affordable housing; Acquisition for Affordable Housing Development – CDBG-DR funds will be used to purchase 50 vacant lots to develop affordable housing; Acquisition of Flooded Properties – CDBG-DR funds as match for State funds intended to buy flooded properties that may be used for green space or flood access/control; Renters are also being assisted through the “Imagine Minot” Downtown Development Parking Facility – in support of development of LMI rental units; Infrastructure Repairs Downtown – repair of damaged storm sewers in support of affordable rental units; and Relocation Assistance for Displaced Tenants – relocation assistance for tenants displaced due to acquisition. CDM Smith is providing case management, environmental reviews, construction management and other services necessary to implement these programs.

### CDBG-DR Program Management and Environmental and Historic Preservation Reviews, Hazard Mitigation Technical Assistance Program/Hazard Mitigation Grant Program—Nationwide

Under a national Hazard Mitigation Technical Assistance Program contract with FEMA, CDM Smith has completed records of environmental consideration (RECs) for 19 projects and environmental assessments (EAs) for 6 projects. All of the projects were proposed for funding under FEMA’s Hazard Mitigation Grant Program (HMGP). *CDM Smith has also completed a draft environmental impact statement (DEIS) for a group of 105 proposed wildfire mitigation projects proposed for funding under the HMGP and FEMA’s Pre-Disaster Mitigation program.*

Under this contract, CDM Smith personnel included in this proposal became familiar with FEMA requirements for environmental and historic preservation (EHP) review.

In FEMA Region VII, CDM Smith completed RECs for 12 proposed HMGP projects, including 10 tornado safe rooms. Five of the safe rooms would be additions to existing schools and five would be rooms within new buildings. Draft RECs and requests for information were delivered within two weeks of receiving the applications.

Under one task order for FEMA Region IX, CDM Smith prepared EHP reviews for eight projects proposed for HMGP funding, including two flood control projects, four snow load retrofit projects, one seismic retrofit project, and one roof replacement project for wildfire hazard reduction. CDM Smith received all eight applications at the same time and submitted a project review strategy for each project a week later. RECs were completed for six categorically excluded projects; the two flood control projects required environmental assessments. Under a second task order for Region IX, CDM Smith prepared EAs for two additional flood control projects in California. California has particularly demanding requirements for demonstration of compliance with historic preservation, and CDM Smith personnel included in this proposal gained valuable experience with historic preservation compliance under these task orders.

Under two task orders for FEMA Region VI in Texas, CDM Smith completed a REC for a flood control project, an EA for the same project, and an EA for a wildfire mitigation project. Both projects were proposed for HMGP funding. CDM Smith delivered the draft REC and a request for information within 2 weeks of receiving the application. Under the second task order, CDM Smith is preparing environmental assessments for additional wildfire mitigation projects in Texas.

*CDM Smith has completed a DEIS for FEMA Region IX to evaluate vegetation management projects proposed for wildfire mitigation grants under the Pre-Disaster Mitigation program and the HMGP.* The proposed projects would occur on 1,000 acres in 105 defined areas in the hills east of San Francisco Bay and in a park on the bay shore. Selected types of vegetation would be cut and the stumps or cut stubble would be treated with herbicides. Cut material would be ground or chipped and scattered on the project sites, hauled away, or piled and burned under specified conditions. Significant environmental issues include impacts to protected species, air quality, water quality, human and ecological health, climate change, and aesthetics. Many of the proposed projects would occur in long-

#### Nationwide

##### Relevant Features

- Grant Program Technical Reviews
- Records of Environmental Considerations (RECs)
- Environmental Assessments (EAs)
- Draft Environmental Impact Statement (DEIS)
- Historic Preservation Evaluations
- Engineering Reviews
- December 2009 – 2014

##### Reference

Gina White, COTR  
FEMA-HQ-FIMA  
(202) 646-3906  
Gina.White@fema.dhs.gov



established parks that contain historic structures and could contain archaeological resources. CDM Smith prepared a biological assessment and a screening-level ecological and human health risk assessment for the proposed projects. The biological assessment was approved by the U.S. Fish and Wildlife Service (USFWS).

## CDBG-DR Program Management for Hurricane Katrina

Orleans, Jefferson, and St. Charles Parishes, Louisiana

### State of Louisiana Office of Community Development

#### Relevant Features

- Environmental Reviews
- Local Program Delivery
- Property Buyout
- Public Infrastructure
- Economic Development
- October 2007 – October 2010
- \$633M CDBG-DR Program

#### Reference

Patrick Forbes, Executive Director – Office of Community Development or Rowdy Gaudet, Infrastructure Manager  
 (225) 219-9600 and (225) 219-9794  
 patrick.forbes@la.gov and rowdy.gaudet@la.gov

For the State of Louisiana, Office of Community Development (OCD), CDM Smith led the program administration, financial management, and grant tracking and supervision for the CDBG-DR Program.

The program facilitated timely Hurricane Katrina/Rita disaster recovery and the administration of over \$411 million in Orleans Parish; \$50 million in Jefferson Parish; \$1 million in St. Charles Parish; \$111 million for the Recovery School District; \$21 million for the Orleans Parish School

District; \$4 million for the Jefferson Parish Public School System; and \$700,000 for the St. Charles Parish Public School System.

CDM Smith was responsible for aiding grantees with pre-application project descriptions; completion and approval of grant applications; reviewing project plans and specifications for grant compliance, cost effectiveness, and other CDBG-DR requirements; monitoring and assisting the bidding/pre-construction process; providing construction phase services and closing out grants for each project funded through OCD's Long Term Community Recovery Program. Specifically, the CDM Smith team provided grant recipients expertise in CDBG-DR eligibility, project feasibility and grant application preparation at the front end of the program. During the early stages of the project development, CDM Smith provided guidance in implementing proper CDBG-DR procurement requirements; supervision and oversight throughout the design process; coordination and tracking of the environmental review process and guidance

for complying with Urban Redevelopment Authority (URA) requirements for land acquisitions.

Additional services provided include bid phase coordination, construction phase compliance monitoring (including Davis Bacon), and grant closeout as per HUD auditing requirements.

*Nearly 150 projects were successfully developed and approved for funding and were implemented.*

These projects include special economic development programs, housing assistance programs, planning, administration, reimbursements, blight reduction, acquisition, commercial buildings, institutional buildings, infrastructure (roadways, utilities, and drainage).

### Program Delivery Systems

In addition, the CDM Smith team established effective and efficient program delivery systems and internal control procedures designed to result in expedited implementation, such as:

- A filing system modeled on previous state and federal audit experience as well as a tracking system for the grant approval process.
- Streamlining the grant drawdown process and creating a database system for tracking draw requests. The system's identification of bottlenecks and barriers helped participants to improve the process and shorten payment time.
- A tracking system for environmental review status to ensure that no choice limiting actions were taken prior to environmental clearance. The team also established procedures for coordinating the timing of the environmental review with project implementation.
- Checklists for procurement of construction contractors and professional services firms to assist grantees in compliance with federal procurement requirements as well as their own local procurement policies.
- Tools for compliance with the URA that can be tailored from acquisition to acquisition, depending on the circumstances. In addition, the team established a close relationship with HUD's Regional Acquisition/Relocation Specialist for quick resolution of challenges.
- Federal Labor Standards review procedures to expedite the examination of certified payroll forms. The team trained contractors on certified payroll requirements at the outset of construction to reduce the overall cost of compliance.



## Environmental Review

Throughout the operation of this program, the CDM Smith Team proactively balanced its dual mission of timely disaster recovery implementation and compliance with CDBG-DR regulations. For example, a time critical aspect of implementing CDBG-DR funded projects involves coordination of environmental reviews per the National Environmental Policy Act (NEPA) and 24 CFR Part 58. To expedite overall project delivery, the CDM Smith team employed a variety of schedule accelerating techniques matched to the specific needs of each grantee, including: designing a two-step grant application process that greatly accelerated the commencement of environmental review process; performing initial screening to determine if an exemption [58.349a] or categorical exclusion not subject to Part 58.5 is applicable and timely completion of the appropriate documentation; and preparation of an organizational capacity-building plan for the City of New Orleans to achieve timely environmental compliance. Furthermore, throughout the environmental record review (ERR) process, the CDM Smith team coordinated exchanges of information between design professionals, OCD's environmental consultant, and grantees to achieve timely completion of the work.

## Environmental Review for HUD-Funded Projects

Chicago, Illinois

CDM Smith is providing environmental review and environmental clearance services for HUD-funded activities of the Chicago Department of Fleet and Facility Management (CDDFM). Most of the activities involve housing, but some involve various kinds of non-housing facilities. CDDFM previously completed broad (tier 1) environmental assessments for its HUD-funded activities, and CDM Smith has prepared more than 5,000 site-specific (tier 2) environmental reviews for individual activities, including more than 1,000 reviews in the past year.

CDM Smith is performing all tasks necessary to complete the environmental clearance process in accordance with CDDFM's approved NEPA methodology. Upon completing the review, CDM Smith prepares a package that includes an environmental review record (ERR) and an environmental clearance or denial letter. The ERR contains the information gathered and analyzed in the review process including information pertinent to floodplain management, wetlands protection, noise assessment, historic property searches, and site inspections, and any correspondence with developers, other City of Chicago departments, and state and federal

agencies. Included with the ERR is a statutory checklist that summarizes all findings made during the environmental review. These findings include any conditions or mitigations required for the proposed activity. As part of this ongoing project, CDM Smith has completed environmental reviews of more than 1,500 sites in the past 12 months.

Under its contract, CDM Smith also prepared an environmental assessment for HUD-funded

redevelopment of a factory building listed on the National Register of Historic Places. The proposed redevelopment involved exterior restoration and interior reconstruction for mixed commercial and residential use. In addition to historic preservation, principal issues in the environmental review were hazardous materials in the factory building and noise from an adjacent railroad and an expressway.

### City of Chicago

#### Relevant Features

- Environmental Clearance
- Environmental Reviews
- Environmental Review Records (ERRs)
- Historic Property Research
- Site Visits
- Data Acquisition
- Reviewing Phase I ESAs
- Historic Preservation

#### Reference

Kevin M. Laberge, P.E.  
City of Chicago Department of  
Fleet and Facility Management  
Bureau of Environmental, Health  
& Safety Management  
Tel: (312) 742.0463  
Kevin.Laberge@cityofchicago.org

# Tab 8

## Additional Experience of Bidder

Under this Section, CDM Smith and our proposed SBE subcontractors offer additional experience to support the State's environmental and historic preservations reviews for the CDBG-DR Grant Program by providing additional project experience summaries.

In Appendix A, we are providing evidence of our experience writing ERRs by including two completed HUD (24 CFR Part 58) ERRs of a categorically excluded not subject to (CENST), categorically excluded subject to (CEST), and Environmental Assessment (a tiered and non-tiered), with at least one including an 8-step floodplain or 8-step wetlands analysis, and two (2) completed (36 CFR Part 800) Cultural Resource Review Records.

In Appendix B, we are also proving proof of previous experience in completing FEMA Environmental Reviews by including two completed FEMA Records of Environmental Consideration.

### Assistance to New Jersey Department of Environmental Protection in Performing Environmental Reviews for Sandy Recovery Programs

Under contract to the New Jersey Department of Community Affairs, CDM Smith assisted the New Jersey Department of Environmental Protection in performing environmental review of HUD-funded programs for recovery from Superstorm Sandy. CDM Smith helped DEP prepare Tier 1 environmental assessments for the Rehabilitation, Reconstruction, Elevation and Mitigation (RREM) Program for single-family homes and the portion of the Small Rental Properties Program for buildings with up to four residential units. CDM Smith helped modify the Tier 1 EA to meet the requirements of FEMA. CDM Smith also drafted the checklist to be used in Tier 2 site-specific review.

Personnel in HUD's regional and national offices reviewed and commented on DEP's draft Tier 1 and Tier 2 EA documents. Many of the comments were valid, but some were not. CDM Smith helped DEP understand, evaluate, and respond to the comments as appropriate. CDM Smith personnel participated in discussion and resolution of issues raised by DEP, HUD, FEMA, EPA, and other agencies. CDM Smith became familiar with

the views of HUD regional and national environmental personnel on key issues in environmental review of programs for recovery from Superstorm Sandy.

CDM Smith also assisted with the following tasks:

- Determination of the general level of environmental review required for activities in each component of DCA's CDBG-DR Action Plan
- Review and revision of the area wide 8-step floodplain decision making analysis and the floodplain public notices for the RREM and Small Rental Properties programs

#### NJDEP

##### Relevant Features

- Environmental Reviews
- 8-Step Flood Plain Analysis
- Categorical Exclusion
- Resolution of Regulatory Issues
- Coordination with State, HUD and FEMA
- Completed 2013

##### Reference

Diane Dow, Section Chief  
Division of Policy  
Implementation and Watershed  
Restoration Land Use Mgmt.  
(609) 984-1475

Diane.dow@dep.state.nj.us

Donna Mahon, NJDEP  
Office of Permit Coordination  
and Environmental Review  
(609) 341-5313

Donna.Mahon@dep.state.nj.us



- Preparation of public notices
- Development of finding of no significant impact
- Completion of Request for Release of Funds and Certification forms
- Development of environmental review forms (templates)
- Preparation of certificates of exemption for several categories of activities that are exempt from environmental review
- Preparation of certificates of categorical exclusion for several categories of activities not subject to 24 CFR Part 58.5
- Resolution of regulatory issues

This work helped CDM Smith gain perspective on DEP's priorities in reviewing Superstorm Sandy recovery programs and on the requirements of HUD, FEMA, EPA, and other agencies.

### FEMA Public Assistance Technical Assistance Contracts (PA TAC I and II), Nationwide

#### Relevant Features

- Environmental Reviews
- NEPA
- Historic Preservation Evaluations
- Potential Mitigation Activities
- GIS
- Contract cost: \$475 million T&M task orders
- Completed 2009

#### Reference

Mr. Richard Porter,  
FEMA Public Assistance  
Coordinator  
(601) 668-4409

These projects demonstrates the CDM Smith team's ability to provide senior technical specialists within 48 hours of request to conduct post-disaster assessments and to work with grant applicants in project formulation that includes evaluating environmental and historic considerations and incorporating mitigation opportunities. CDM Smith and team members ATCS have supported FEMA's PA program through consecutive contracts for PA TAC I and II as a subcontractor to Fluor. CDM Smith and ATCS provided architectural-engineering (A-E) services for 40

federally declared disasters that have included hurricanes, ice storms, earthquakes, wildfires, tornadoes, and other severe flooding and high wind events.

As a subcontractor to Pricewaterhouse Coopers (PwC) under PA TAC, CDM Smith deployed 15 accountants, financial specialists, and CPAs to Louisiana, Texas, and Iowa in response to the 2005 Gulf Coast hurricanes and the 2008 floods in Iowa to perform Benefit-Cost Analysis (BCA) and review grant applications.

**Application of GIS Technology:** Operating from FEMA's Joint Field Office in Austin, TX for Hurricane Rita, CDM Smith GIS experts developed a geospatial decision-support system based on an older version of FEMA's Region X ENVAS geo-database. By rapidly modifying the system, CDM Smith personnel generated updated debris maps and other products incorporating Special Consideration issues (environmental, historic, etc.), which were transmitted to FEMA, DHS and the White House for daily situation reports.

**Benefit-Cost Analysis:** ATCS applied more than 12 years of experience performing hundreds of BCAs using FEMA's BCA Tools for both Section 404 and 406 mitigation activities. Project reviews addressed multiple hazards affecting a wide variety of facilities.

**Environmental and Historical Preservation Reviews:** CDM Smith and ATCS have performed project formulation that has required environmental and historical preservation reviews, including:

- Determination of the level of National Environmental Policy Act (NEPA) reviews (categorical exclusions, environmental assessments, or environmental impact statements) in multiple states
- Consultation with U.S. Fish and Wildlife Service and National Marine Fisheries Service to identify endangered species in the disaster area and to assist FEMA in assessing the impact of PA projects on various species or their habitats
- Identification of historic properties and the effect PA projects may have on them, requiring consultation with various stakeholders
- Identified personnel and deployed teams of professional archaeologists, architectural historians, historians, and planners experienced in a wide variety of cultural resources services.
- Mobilized architectural historians qualified under the Department of the Interior's requirements (36 CFR 61) to assist FEMA in compliance with federal, state and municipal historic preservation requirements

**Software and Systems Design:** CDM Smith developed an innovative geospatial decision-support system building on Region X ENVAS geo-database. CDM Smith also applied highly specialized water resource knowledge to develop automated approximation method for developing cost estimates, thereby reducing the efforts of project specialists while increasing accuracy.

**Mitigation Plan Review:** CDM Smith and ATCS reviewed

or provided technical support for mitigation measures as part of the project formulation process for the PA Program, resulting in over \$1B in obligated funding. As part of all Project Worksheet (PW) reviews, we performed detailed assessment of proposed mitigation measures.

**Quality Oversight and Assurance of Contractors:** CDM Smith and ATCS supervised multiple contractors as part FEMA PA operations management. Supervision included providing quality assurance, oversight, and performance evaluations for members of PA staff, regardless of the contractor for whom that staff member worked, and conducted in close coordination with management from all FEMA PA TAC contractors.

**Effective Partnership:** CDM has provided Long-Term Community Recovery (LTCR) specialists after Hurricane Katrina in Louisiana and the tornado in Greensburg, Kansas. In Greensburg, the CDM staff worked closely with state and local agency consultants to develop a common vision for recovery. FEMA, including the TAC staff, were applauded by Greensburg for their ability to listen to the needs of the community.

### Environmental Review for Demolition of Public Housing in Newark

For the Newark Housing Authority, CDM Smith prepared full environmental assessments for proposed demolition of two public housing developments with a total of 32 buildings and 791 housing units. The environmental assessments were completed in accordance with HUD regulations in 24 CFR Part 58.

#### Newark Housing Authority

##### Relevant Features

- HUD Environmental Assessments (24 CFR Part 58)
- Phase I ESAs
- Historic Preservation Reviews

##### Reference

Karen McLane Torian  
Chief Asset Development and Preservation Officer  
973-273-6620  
ktorian@newarkha.org

CDM Smith prepared a phase I environmental site assessment (ESA) as part of the environmental assessment for each housing development. The ESAs addressed asbestos, lead-based paint, and other hazardous materials.

One of the housing developments was adjacent to a middle school and the other was adjacent to a senior

housing development. The environmental assessments included conditions for approval designed to minimize impacts to the adjacent neighborhoods during demolition.

Because the developments proposed for demolition were among the first constructed under the Public Housing Act

of 1937, their eligibility for listing in the National Register of Historic Places became an issue in the environmental assessment process. After an intensive architectural assessment by a qualified historic preservation specialist, the New Jersey Historic Preservation Office concluded that the developments were not eligible for listing in the National Register.

Through this work, CDM Smith gained experience performing environmental review for HUD-funded projects in New Jersey. Specifically, CDM Smith gained experience with potentially historic and potentially contaminated housing sites.

### Program Management for Environmental Review of Long-Term Workforce Housing on the Mississippi Gulf Coast

As a subconsultant to the Horne Group, CDM Smith provided environmental program management services to the Long Term Workforce Housing (LTWH) program of the Mississippi Development Authority. The LTWH program was funded by the Community Development Block Grant (CDBG) program of the U.S. Department of

Housing and Urban Development. The LTWH program provided grants and loans totaling \$350 million to provide low-to-moderate income (LMI) housing in the three counties on the Mississippi Gulf Coast.

Applicants for funding included for-profit and nonprofit entities. Each applicant was required to complete environmental reviews of its proposed housing project. HUD's standards for environmental reviews escalated after Hurricane Katrina, and neither the applicants nor their consultants had experience in preparing reviews to meet the higher standard. CDM Smith had gained this experience in MDA's post-Katrina Public Housing Program. In the LTWH program, CDM Smith helped the applicants and their consultants prepare environmental reviews that met all HUD requirements, and assisted the MDA determine when environmental requirements had been met. CDM Smith assisted with the following specific tasks:

- Establishment of policies and procedures for environmental review

#### Mississippi Gulf Coast

##### Relevant Features

- Program Management
- Environmental Review
- Public Notices
- 8-Step Flood Plain Analysis

##### Reference

Sara Watson, Mississippi Development Authority  
(601) 359-9344  
SWatson@mississippi.org

- Determination of the level of environmental review necessary for each project to obtain environmental clearance
- Preparation of a detailed annotation of the HUD environmental assessment (EA) forms. The annotation included explanations of individual sections of the forms, typical language to address particular subjects in the EA, sources of relevant information including web links, typical mitigation measures, and an example of a list of references.
- Review of draft environmental review documents prepared by the applicants and their consultants, and preparation of detailed comments with guidance on how to correct deficiencies
- Development of standardized public notices
- Assembly and maintenance of complete environmental review records

In the course of the LTWH program, CDM Smith guided applicants and their consultants through preparation of environmental reviews for 23 proposed projects involving new construction of 2,473 housing units, rehabilitation of 415 housing units, and placement of 155 prefabricated homes. Most of the projects required completion of the 8-step floodplain decision making process in 24 CFR Part 55.20, and many required completion of an equivalent process for wetlands.

### Passaic River Four-Season Avian Survey, Passaic County, New Jersey (August 2010 to May 2011)

#### Lower Passaic River Restoration Project Relevant Features

- Ecological Risk Assessment
- Avian Survey
- Remedial Investigation

#### Reference

Kansas City USACE PM  
Elizabeth Franklin  
CENWK-PM-ES  
Phone: 816-389-3581  
Elizabeth.A.Franklin@usace.army.mil

USEPA Region 2 Remedial PM  
Stephanie Vaughn  
Phone: 212-637-3914  
Vaughn.Stephanie@epa.gov

As part of a comprehensive ecological risk assessment, CDM Smith completed a four-season bird survey on 17 miles of the Passaic River from the Dundee Dam to Newark Bay. Seventeen points along the river were surveyed multiple times in each season in the morning, at mid-day, and in the evening. More than 150 species of birds were identified. The results of the avian survey were included in the ecological risk assessment and the remedial investigation reports for EPA's Lower Passaic River Restoration Project.

Through this project, CDM Smith gained familiarity with

the birds in areas along the river that were affected by Superstorm Sandy.

### Disaster Recovery and Long-Term Planning, State of New Jersey

Superstorm Sandy caused extensive damage throughout New Jersey, especially along its Atlantic shore. The October 25, 2012 storm is ranked as the second-costliest hurricane in United States history. As a result, the Federal Government allocated \$1.83 billion to the state in CDBG-DR funds to provide for the long-term recovery process.

The New Jersey Department of Community Affairs (DCA) turned to CDM Smith's team of disaster recovery and CDBG-DR experts to assist in designing the State's overall program strategies for housing and community recovery. Within three days CDM Smith mobilized a team of 25 CDBG experts to the New Jersey state capitol to begin working on the first deliverable. Major components of the plan included:

- Conducting a data driven needs assessment
- Creation of a fast tracked Action Plan for implementation of recommended programs
- Development of Requests for Proposals (RFP) to procure contractors to implement the programs

CDM Smith provided CDBG-DR experts in housing, economic development, infrastructure, environmental procedures, and HUD financial and project management systems. Activities included:

- Long-term planning
- CDBG-DR program specific policies and procedure development
- Internal DCA policy and procedure development
- Technical assistance
- Information system development

#### Superstorm Sandy Action Plan Relevant Features

- Developed State Strategies for Housing and Community Recovery
- Data Driven Needs Assessment
- Fast Track Action Plan
- CDBG-DR Policies & Procedures
- RFP Development

#### Reference

Paul Macchia  
(609) 292-6420  
paul.macchia@dca.state.nj.us  
Chuck Richmond  
(609) 292-6420  
crichmond@dca.state.nj.us

### Needs Assessment

CDBG-DR funds must be used to satisfy “unmet needs,” that is, financial needs not satisfied by other public or private funding sources such as FEMA Individual Assistance funds, Small Business Administration (SBA) disaster loans or private insurance. HUD also requires that CDBG-DR programs focus predominantly, but not exclusively, on the State’s most impacted counties and on the State’s LMI populations.

The CDM Smith team provided a detailed analysis of damage to the state’s housing sector, businesses, and infrastructure. Using a variety of data, the team determined that approximately 40,500 primary residences and over

### Request for Proposal (RFP) Development

CDM Smith provided a team of experts to assist the state in procuring contractors for program implementation. CDBG-DR contractor procurement must follow established federal guidelines. CDM Smith assisted in crafting RFPs for programs developed by the team including incentives for homeowners to remain in the affected areas, rental housing recovery, and the Housing Reconstruction, Rehabilitation, Elevation and Mitigation (RREM) program. The CDM Smith team also created an RFP designed to allow the state to hire a contractor capable of assisting in the initial intake and assessment of an estimated 50,000 potential applicants for the various programs in the Action Plan.

Estimate of Unmet Needs as determined for the State of New Jersey	Need	Funds from sources other than CDBG-DR	Unmet Need
Housing	\$4,458,185,055	\$1,953,191,063	\$2,504,993,992
Businesses	\$1,873,278,430	\$145,465,017	\$1,727,813,413
Infrastructure/Community Facilities	\$25,440,800,963	\$10,942,262	\$25,432,594,266
Total	\$31,772,264,448	\$2,109,598,342	\$29,665,401,671

15,600 rental units sustained “severe” or “major” damage according to classifications made by HUD. The assessment also found that businesses in 113 of New Jersey’s 565 municipalities were impacted, as well as its infrastructure.

### Action Plan



CDBG-DR funds are administered through HUD which requires recipients to provide an Action Plan for utilization of the funds before the

funds are released. In order to begin funding recovery programs quickly, the DCA tasked CDM Smith to submit a draft Action Plan 10 days after the official announcement of funding in the Federal Register. CDM Smith assisted in crafting a variety of programs to assist homeowners in rebuilding, provide rental housing, encourage economic revitalization, infrastructure repairs, and a tourism marketing campaign in an extremely short timeframe.

Following a period of public comment, the Action Plan was submitted to HUD on March 27, 2013 and approved on April 29, 2013.

### Historic Preservation and Restoration

#### Raceway Storm Damage Repairs and Raceway Embankment Reconstruction, City of Bridgeton, Cumberland County, New Jersey

Duration: 2012-2013  
 Project Sponsor: City of Bridgeton  
 Client: Fralinger Engineering, PA

RGA completed a Phase I archaeological survey and Historic American Engineering Record (HAER) recordation in connection with proposed storm damage repairs to the historic Bridgeton Raceway caused by a major flood event. The Bridgeton Raceway is a contributing resource to the National Register-eligible Cumberland Nail and Iron Works, and is a recreational feature of the City of Bridgeton Park. The project, financed through federal Public Assistance disaster recovery funding administered by the Federal Emergency Management Agency (FEMA), was completed in compliance with the National Environmental Policy Act (NEPA), the National Historic Preservation Act, and the Archaeological and Historical Preservation Act. All work was conducted in accordance

with a scope of work prepared in consultation with and approved by FEMA.

The Phase I archaeological survey included background research, a visual inspection of the Area of Potential Effects (APE), and the excavation of shovel test pits in areas with a high potential to contain significant archaeological resources. Fieldwork included subsurface testing at geotechnical boring locations and proposed access roads along the west bank of the raceway. No potentially significant archaeological resources were identified in these areas. A series of wooden timbers were identified protruding upward from the eroded portions of the earthen raceway berm at the northern end of the APE. As part of the project, these timbers and other features of the raceway were recorded to HAER standards in advance of the proposed repairs. The HAER recordation included measured drawings, photographs, and written historical and descriptive data.

### Capital Health Medical Center, Township of Hopewell, Mercer County, New Jersey

Duration: 2008-2010  
 Project Sponsor: Van Note-Harvey Associates, PC  
 Client: Van Note-Harvey Associates, PC

RGA conducted Phase I-III archaeological surveys at the Hart Farmstead Site in connection with the proposed Capital Health Medical Center. The project was financed by the United States Department of Housing and Urban Development (HUD) and the surveys were performed in accordance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act.

The Phase I/II archaeological surveys and documentary research uncovered evidence of historic occupation of the site during the eighteenth and nineteenth-century by the Moore and Hart families. As a result of the survey, the Hart Farmstead site was determined eligible for listing on the National Register of Historic Places for its ability to provide new information important in history and the early settlement of Hopewell Township.

In accordance with a Memorandum of Agreement and data recovery plan, RGA conducted a Phase III archaeological survey to mitigate project effects to the site. Sixty-six cultural features were identified and 16,984 artifacts were recovered during the survey. The Phase III archaeological excavations provided significant information about the evolution of building techniques, dairy operations, and consumer behavior in Hopewell during the mid-eighteenth and early nineteenth century.

### Cultural Resources Task Order Agreement, Statewide, Delaware

Duration: 2004-Present  
 Project Sponsor: David S. Clarke,  
 (302) 760-2771

Client: Delaware Department of Transportation

Hunter Research (HRI) has been retained by the Delaware DOT for open-end cultural resources task orders for three consecutive cycles (2004-07, 2007-2010 and 2010-13). Under these agreements, HRI has



completed more than 20 projects related to project compliance with Section 106 of the National Historic Preservation Act (36 CFR 800). This work has taken place in a variety of settings from maritime to rural. Work has included the development of scopes of work, eligibility assessments, historic survey and documentation (including HABS/HAER/HALS) and archaeological survey from Phase 1 to determine potential for eligibility to Phase 3 data recovery related to resolution of adverse effects.

A number of the task orders have been associated with a 16-mile realignment of U.S. Route 301 involving coordination within DeIDOT's overall NEPA and 4(f) related compliance for the project corridor. Sites investigated include prehistoric Woodland I and Woodland II camp sites, a previously unidentified early colonial tenant farm, several 19th-century farm sites, an early 19th-century general store, a ferry, and a site that has been associated with an early colonial cart road used to haul tobacco and other trade goods between the Chesapeake and Delaware Bays. Work efforts in all cases have included background research, fieldwork, laboratory processing, report preparation, project management and agency coordination in accordance with federal- and state-established guidelines, policies, procedures and standards.



## Architectural and Archaeological Assessments, Fort Dix, New Jersey

Duration: 2012-Present  
 Project Sponsor: Andrea Murphy,  
 (609) 562-7666  
 Client: 99<sup>th</sup> Regional Support Command,  
 United States Army Reserve

HRI was engaged as a subconsultant to PARS Environmental to undertake cultural resource evaluations and assessments for the U.S. Army Reserve's 99<sup>th</sup> Regional Support Command based out of Fort Dix, New Jersey. These assessments involved 15 historic architectural surveys and 6 Phase I or IB archaeological surveys at various Army Reserve facilities located in Maryland, Massachusetts, New Jersey, New York, Pennsylvania and Rhode Island. These surveys were required for Section 106 and 110 compliance with several of the evaluations time critical to the Army Reserve because of plans to dispose of the facilities. PARS Environmental, as the prime contractor, coordinated site access and integrated the Section 106 cultural resources review with other required environmental assessments.



HRI integrated initial desktop architectural and archaeological reviews that included checking State Historic Preservation Office (SHPO) GIS systems, reviewing

existing environmental data on each site and examination of aerial photographs, both current and historic. Following initial assessments and definition of Area of Potential Effect (APE), background research was conducted in state historic preservation offices to determine representation in prior surveys and current eligibility status. Only after this information was gathered was a site visit or fieldwork scheduled.

Architectural fieldwork was performed by professionally qualified architectural historians who visited each site, photographing and taking notes on each building over 50 years old. This information was then compiled on intensive-level architectural survey forms following the specific guidelines of each state historic preservation office. Additional background research was completed as needed to provide fully justified eligibility assessments under the National Register Criteria. Eligible architectural resources related to a late-19<sup>th</sup>-century country estate were identified at one property.

Archaeological surveys were performed by professionally qualified archaeologists who developed an appropriate Phase I testing methodology for each property based on its topography, geomorphology and land-use history. Sites ranged from coastal to mountain settings and involved assessment for both prehistoric and historic archaeological potential with the goal of confirming the presence or absence of archaeological resources. Follow-up Phase II survey was recommended for 2 of 6 properties. All reports were submitted to the SHPO's along with coordination letters summarizing the findings.

## Archaeological Monitoring, Life and Safety Upgrades at the Statue of Liberty, Liberty Island, New York

Duration: 2011-Present  
 Project Sponsor: Joel Dukes,  
 (978) 970-5143  
 Client: National Park Service

Beginning in late 2011, and still ongoing, HRI has been subcontracted to Atkins North America, Inc. providing archaeological monitoring services to the National Park Service (NPS) in support of life and safety upgrades being implemented at the Statue of Liberty National Monument. This work was expanded in 2013 to include the provision of additional monitoring and other archeological services on both Liberty Island and Ellis Island in the wake of Superstorm Sandy. All archeological work, especially that conducted over the spring and summer of 2013, has been performed under a very accelerated schedule and involved continuous coordination with a range of NPS personnel, project engineers and contractors. Detailed work scopes prepared by NPS technical staff have governed all archeological tasks.



Archeological activity in 2011-12 mostly entailed monitoring of utility installations and documentation of historic features exposed in trenches and deep excavations both inside and outside the base of the Statue and Fort Wood. This work led to the recovery of valuable historical data that would otherwise have been lost through the construction process. For the most part, the work entailed the documentation of 19<sup>th</sup>- and 20<sup>th</sup>-century archeological features through digital photography, in-field scale drawings, measurements and notes. A small quantity of artifacts



and other cultural materials was also gathered during the course of this work. A technical report has been completed in accordance with NPS analytical and reporting standards formally documenting the various archeological finds.

Archeological services provided in 2013 have involved monitoring of repairs and new construction carried out by multiple contractors as NPS strives to re-open both Ellis Island and the Statue of Liberty in time for the July 4 national holiday. HRI archaeologists have been on call on both islands working to schedules dictated by contractors' ground disturbing actions. The work has been fast-paced and often subject to last-minute change, requiring the archaeological team to be flexible, responsive and continuously available for coordination. Monitoring has addressed remains of early immigration station structures on Ellis Island and segments of the sea wall and other early 20th-century features on Liberty Island. Upcoming work on Liberty Island is likely to involve investigation of Fort Wood-related remains and possibly Native American deposits.

### Phase I Cultural Resources Survey, Ely/Allen House, Monmouth County, New Jersey

Duration: 2012  
 Project Sponsor: Donna M. Blaze,  
 (732) 389-2958  
 Client: Affordable Housing Alliance, Inc.



In 2012 Hunter Research was contracted by Affordable Housing Alliance, Inc. to perform a Phase I cultural resource survey for a 4.34-acre property in the village of Clarksburg, Millstone Township, New

Jersey in connection with the planned construction of a Multi-Family Housing Program Center. The housing project was the recipient of federal funding support from the HUD and subject to consultation with the New Jersey Historic Preservation Office (NJHPO) under Section 106 of the National Historic Preservation Act and related regulations (36 CFR 800). The property contained an early 19th-century farmhouse, barn and associated outbuildings that had been previously identified as being of potential historic interest in the Monmouth County Historic Sites Inventory.

Cultural resources tasks were completed under an accelerated five-week schedule and involved: definition of Area

of Potential Effect (APE); background research; inspection and evaluation of historic buildings on the property and on adjacent properties within the APE (approximately 10 buildings total); archaeological survey of those portions of the site subject to project-related ground disturbance; analysis of research and field results; preparation of a technical report; and coordination with review agencies (principally the NJHPO). The property was also evaluated in terms of its potential inclusion within a proposed Clarksburg Village Historic District.

Historic architectural survey characterized the house as a much-altered vernacular building dating from circa 1820. Other buildings on the site were a mid-19th-century English-framed barn, a late 19th-century tenant dwelling and a mid-20th-century garage. None of the buildings was judged historically significant, either individually or as a component within a historic district. Archaeological testing around the historic core of the house found a range of 19th- and 20th-century cultural materials, but again these were not judged historically significant. Hunter Research coordinated with the client, HUD and NJHPO staff to shepherd this project successfully through the Section 106 compliance process.

### Historic Renovations, Fort Mott State Park, New Jersey

Duration: Phase I completed 2011;  
 Phase II completed 2013 and  
 Phase III is Ongoing  
 Project Sponsor: William White,  
 (609) 802-5886  
 Client: New Jersey Department of  
 Environmental Protection

Batteries Harker, Arnold, Edwards and Krayenbuhl are concrete structures constructed between 1896 and 1901 as part of the efforts to defend the Delaware River, but became obsolete soon



after. The fort was abandoned in 1922 for military use and was maintained by a care taking detachment until 1943.

The purpose of this project is to correct health and life safety issues by stabilizing the concrete structure of the Batteries, restoring deteriorated steel track and to preserve this historically unique building. In the future a restored building, along with interpretive displays, will allow the

public to better understand the mission and historical significance of the Fort Mott complex.

Phase 1 and 2 are completed and Phase 3 will be completed in 2013. When fully completed the stabilization work will result in a safe environment for visitors, using treatment methods that both retain the maximum amount of historic material and allow for the fullest range of future concrete repair options.

Materials and repair methods for concrete restoration were selected with not only a clear understanding of their compatibility with the existing concrete and construction, but also for their longevity and maintainability. Aesthetic integration of the repair with the existing materials was also of concern and the final product presents a coherent appearance. Approval was obtained from the State Historic Preservation Office (SHPO).

### Historic Renovations, Statewide New Jersey

Duration: Ongoing since 1988  
 Project Sponsor: Edward Mulvan,  
 (609) 984-3819  
 Client: New Jersey Department of  
 Environmental Protection



Our experience with DEP projects has ranged from feasibility studies and projects of limited construction scope, to new projects for administrative, public and maintenance use. Most of these projects were bid directly by the Client Agency and others through DPMC. Services normally included design, documents preparation, and construction administration. On historically sensitive projects, we coordinated our design work with the State Historic Preservation Office (SHPO). We have successfully completed over 200 historically sensitive projects for this Client (a partial listing is provided on the below).

- Allaire Chapel Renovations
- Whitesbog General Store Renovations
- Hancock House Renovations
- Peace Magazine Restoration

- Archeology Study at Peace Magazine
- Battery Restoration at Fort Mott State Park
- High Point Park Office Study
- Indian King Tavern Renovations & Study
- Coast Guard Station 112 Restoration
- Governor's Summer Mansion Renovations
- Monmouth Battlefield State Park Renovations
- Atsion Mansion Renovations
- Batsto Multiple Renovations
- Atsion Railroad House Renovations
- Washington Crossing State Park Renovations
- Multiple Renovations at Walt Whitman House
- Drumthwacket (Governor's Mansion) Renovations

### Historic Renovations, New Jersey Pinelands Commission

Duration: 2011  
 Project Sponsor: Joseph Alessi,  
 (609) 943-4836  
 Client: New Jersey Building Authority

This project involved renovations and alterations to the Pinelands executive office and support buildings, including Fenwick Manor, the Carriage House, the Barn, and the Outhouse. All four buildings are listed on the National Register of Historic Places. The intent was to use the manor house and carriage house for offices, the barn for a small laboratory and conditioned storage, and the outhouse for unconditioned storage.



At Fenwick Manor and the Carriage House, code and life safety issues were addressed, as well as repair of historic windows and portions of the exterior. The Barn and Outhouse also were in need of some exterior repairs and painting. The Outhouse needed to be stabilized and weather and waterproofed.

Upgrades and new mechanical/electrical systems were designed in the manor house, carriage house, barn and outhouse. These included fire sprinklers, ADA accessible toilet rooms, an elevator and new HVAC, electrical systems and telephone/data systems.

During the Program/Advisability Phase, L&G discovered that portions of the second floor of Fenwick Manor and the Barn were unable to support the intended uses as defined by the International Building Code and therefore recommended that additional floor joists be installed to meet the required building standards.

Throughout the process L&G worked closely with the State Historic Preservation Office (SHPO) to assure Project Authorization.

## Wetlands, Coastal Zone Management, Endangered Species

### Ocean Drive (CR 621) Bridge over Middle Thorofare 2012 Emergency North Abutment Slope Protection, Lower Township, New Jersey

Duration: 2013  
 Project Sponsor: Wayne Faulkner, PE, Stantec (856) 234-0800;  
 Dale Foster, P.E., County Engineer, (609) 465-1035  
 Client: Cape May County Engineering Department

Project involved the delineation of wetland, permitting assessment, threatened and endangered species habitat assessment, NEPA Categorical Exclusion Document for emergency bridge repairs for damages caused by Superstorm Sandy.

### Girt National Guard Training Center, Sea Girt, New Jersey

Duration: 2011-2012  
 Project Sponsor: William McBride, (609) 530-7136;  
 Melissa Smith, AECOM, (732) 564-3637  
 Client: NJ Department of Military and Veteran Affairs

Project involved revision of the integrated natural resource management plan and NEPA environmental assessment as part of a required 5 year review.

### Route 7, Wittpenn Bridge Replacement, Town of Kearny and City of Jersey City, New Jersey

Duration: 2000-2003 (EA)  
 Project Sponsor: Nancy Adrian, NJDOT, (609) 530-3469;  
 Lynne M. Baumann, PE, Jacobs Engineering, (732) 452-9200  
 Client: NJ Department of Transportation

Project involved the environmental screening of bridge alternatives; environmental assessment (EA) in accordance FHWA NEPA regulations and Section 4(f) of the Department of Transportation Act; NJDEP and USACE permitting and wetland mitigation.

### Rehabilitation of Burlington County Bridge CR 670 Springfield Township, New Jersey

Duration: 2006, 2011-2012  
 Project Sponsor: Wayne Faulkner, PE, (856) 234-0800;  
 Gary Worek, PE, Burlington County, (856) 642-3700  
 Client: Burlington County

Project involved NEPA Categorical Exclusion Document; Phase I Bog Turtle Habitat Survey; NJDEP Freshwater Wetlands & Flood Hazard Area Permitting.

## Environmental Investigations and Assessments

### Former RCA Building 8 Project, City of Camden, New Jersey

Duration: 2003 to Present  
 Project Sponsor: James Harveson, (856) 757-7600  
 Client: Camden Redevelopment Agency

BRS serves as the owner's representative, providing technical expertise and guidance to oversee developer and their environmental investigation consultant's activities where regulatory authority for cleanup lies within three different state agencies and the EPA; provides input on investigation

and remediation to help streamline environmental approval processes; assisted with SHPO negotiations for memorialization of a façade easement for the historic structure; secured over \$4 million in funding from EPA, NJDEP, NJRA and NJEDA; maintains and tracks the project budget for the grantee.

The former RCA Building 8 Project provides the first market-rate condominium project in the history of the City of Camden. The Building 8 project entails the adaptive reuse of a ten-story, 120,000 square foot manufacturing facility into 99 market ready condominium units and first floor retail space. The owner of the property, the Camden Redevelopment Agency (CRA), retained BRS to serve as their technical project manager to represent their interests with the environmental investigation and remediation of the property.

### Assunpink Creek Greenway BDA, City of Trenton, New Jersey

Duration: 2003 to Present

Project Sponsor: J.R. Capasso,  
(609) 989-3501

Client: City of Trenton, New Jersey

BRS serves as outsourced technical staff and manages the entire project, overseeing environmental, engineering, demolition, and remediation subcontractors for all sectors of the project. BRS reviews and evaluates environmental investigation data, recommending remedial actions, conducting community outreach, working with adjacent residents to receive input on park amenities and educating them on the steps required to transform contaminated, flood-prone property into parkland.

The Assunpink Greenway BDA is an expansive, 99-acre linear park project adjacent to the Assunpink Creek running through an impoverished section of the Trenton. The project area includes a substantial sequence of brownfield sites held by public and private owners. Transforming this large, contaminated, flood-prone area into a greenway is a long-term and ambitious endeavor.

BRS is responsible for obtaining and coordinating over \$19 million of aid offered by a myriad of local, State and Federal entities BRS have brought to the table. BRS has enlisted the assistance of various partners for the project including Mercer County, the NJDEP, the U.S. Army Corps of Engineers, the U.S. Economic Development Administration (USEDA) and the EPA. BRS created and continues to coordinate a Steering Committee comprised of these funders, other government regulators, community

groups, and other stakeholders to guide the brownfield redevelopment process.

### On-Call Environmental Remediation Services, Statewide, New Jersey

Duration: 2011-Ongoing

Project Sponsor: Andrew Drake, LSRP,  
(609) 409-6999

Client: New Jersey Turnpike Authority (NJTA)

YU completed the Baseline Ecological Evaluation (BEE) of the NJTA on the Garden State Parkway (GSP) in Woodbridge, NJ. The receptor evaluation (RE) was performed to ensure that ecological receptors (environmentally sensitive natural resources) are protected from exposure to hazardous substances at or near contaminated sites. The purpose of this BEE was to satisfy the requirements of the RE and assist NJTA's fulfillment of its SRRA obligations. The scope of this BEE includes the subject property and an area of 200 feet around the property (Buffer Zone).

YU conducted RE and BEE to assess ecological risks to the human health, aquatic and terrestrial habitats associated with NJTP sites. YU performed ecological evaluations and risk assessments associated with the proposed work at the NJTA sites in order to address actual impacts resulting from site-related contamination. As a scope of work, YU identified constituents of concern detected at the site that have the ability to bio-accumulate or are present in concentrations that exceed the corresponding regulatory thresholds or guidelines for use in conducting ecological evaluations. YU also identified the Ecologically Sensitive Areas (ESAs) within the site boundaries and on immediate adjacent properties, and potential migration pathways from the property to the ESAs. Conclusions were drawn regarding the migration pathway of contaminants from the identified Contaminants of Potential Ecological Concern (COPECs) to the ESAs present at and/or adjacent to the Site. YU also prepared the Land Use and Zoning Report for the Site and evaluated the potential remedial alternatives.

### Peter Rodino Federal Building, Newark, New Jersey

Duration: 2005-2011

Project Sponsor: Jeffery Dugan,  
(212) 247-2660

Client: General Services Administration

YU performed an asbestos survey at the Peter W. Rodino Federal Building (PRFB) in Newark, NJ. The purpose of this survey was to identify asbestos-containing material

(ACM) within the building elements and subsequently developed an abatement design. Analytical results have shown friable sprayed-on ceiling materials and other non-friable ACM. Recommendations were made to abate these materials prior to building modernization. The asbestos survey was performed in accordance with the USEPA AHERA regulations published in the Federal Register in 40 CFR Part 763. Field information was organized as per the AHERA concept of Homogeneous Area (HA). The Bulk samples of suspect ACM collected were analyzed by Polarized Light Microscopy (PLM) with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAPS). This Project received General Services Administration Award for the Design Excellence of 2010.

### Environmental Site Assessments, Bloomfield, New Jersey

Duration: 2010-2012  
 Project Sponsor: James A. Weingartner,  
 (732) 952-0242  
 Client: DCH Auto Group

YU conducted a Phase I Environmental Site Assessment (ESA) for the Site to identify existing or potential Recognized Environmental Conditions (RECs) in connection with the property. RECs identified at the Site included presence of paint spraying booth, oil and other vehicle maintenance fluid, floor trench drain and UST.

As part of Phase II investigation at the Site, YU performed geophysical survey, soil borings and temporary well installation. Soil samples from the first round of investigation were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), TCL Semi-Volatile Organic Compounds (SVOCs), Target Analyte List (TAL) Metals, Pesticides, Poly Chlorinated Biphenyls (PCBs), Total Cyanide, and Total Petroleum Hydrocarbons (TPHs). Soil samples from the second round of investigation were analyzed for TAL Metals and Poly Aromatic Hydrocarbons (PAHs). The groundwater sample was analyzed for TCL VOCs, TCL SVOCs, and TAL Metals. The soil and groundwater analytical results were compared to the regulatory standards. A Phase II Investigation Report was summarized which includes the recommendations for the RECs.

### Pulaski Warehouse

Duration: 2007-ongoing  
 Contact: Bo Farkas, (201) 635-6026  
 Client: Prologis, Inc.  
 (formerly AMB Property Corporation)

#### Services

SAI was retained to assist in determining the feasibility of substituting an 880,000 square-foot warehouse redevelopment project for a previously approved landfill cap at the former PJP Landfill in Jersey City.

The PJP Landfill was in the news in the early 1980s when Dr. Sadat ran the NJDEP cleanup program. NJDEP had to take charge of extinguishing a subterranean fire at the site when it was discovered that there were drums of chemicals within the burning wastes. Extinguishing the fire required excavation and wetting the waste to cool the intense heat (up to 1,000 degrees Fahrenheit) and the removal of thousands of chemical drums. The remaining waste was then covered with layers of dirt and compacted, and an interim clay cap installed

across a portion of the landfill. Later, the site was included on the Superfund list. A Responsible Party Group completed plans for capping the 90-acre landfill.



Recognizing the benefits of a large parcel of undeveloped land in this portion of the State, AMB (the former Client) pursued a series of approvals and, in June 2007, secured site plan approval for redeveloping a 50-acre portion of the site. SAI was retained by AMB based on its reputation and experience in landfill management and redevelopment as well as its relationship with the regulatory agencies. SAI's involvement focused on gaining concurrence from NJDEP that the redevelopment plan could be substituted for a conventional closure. SAI also assisted the Client in reaching agreement with the Responsible Party Group on AMB's role in performing a major portion of the remediation.

#### Approach

SAI evaluated a conventional landfill closure plan submitted by the Responsible Party and consulted with the NJDEP Case Manager on the possibility of substituting development for capping. Based on encouragement from the Case Manager, SAI amended the approved Closure Plan for a portion of the site to include regrading the waste, geotechnical improvement to the waste to prepare

the site for development, subslab gas venting, external gas vents, and various materials for capping in place of the membrane cap already approved.

Because the site is on the federal Superfund list, SAI had to design a remedial plan equivalent to the plan already approved based on the USEPA Record of Decision.

SAI oversaw field activities in 2007/2008 when the site regrading for development took place. SAI developed a specification for use of Recycled Concrete Aggregate (RCA) for use as subbase material for the 880,000 warehouse to be built at the site. SAI reviewed applications from suppliers of RCA and certified over 400,000 cubic yards of RCA which was obtained free of charge, saving the Client millions of dollars over previous estimates for obtaining equivalent fill material.

### Permitting

SAI assisted other members of the Project Team in obtaining site development permits. SAI submitted the amended Landfill Closure Plan Approval Application which was approved.

### Redesign of Groundwater Leachate Recovery System/Assistance with Landfill Post-Closure Maintenance

Duration: 2005-ongoing  
 Contact: Mr. Gary Lotano, (609) 514-5970  
 Client: Industrial Land Reclaiming, Inc.

### Services

SAI was retained by the owners of the Industrial Land Reclaiming, Inc. (ILR) landfill in 2005 to provide ongoing assistance in the post-closure maintenance of the facility. The ILR landfill comprises approximately 140 acres and has a mound of waste extending over 100 feet in height. Closed and capped between 1985 and 1987, the landfill has both groundwater/leachate collection and gas collection systems. Gas is sent to a nearby utility authority for conversion to electricity. The clients have been concerned about minimizing long-term liability by remediating the leachate as quickly as possible and also making portions of the landfill available for development.

### Approach

SAI assisted the owners of ILR in evaluating a transaction that would subdivide a 40-acre portion of the landfill to be sold to a warehouse developer. The warehouse developer submitted a revised Closure/Post Closure Plan Remedial Investigation and Remedial Action Workplan. Since the

landfill was already properly closed, the main concern was providing relief from landfill gas migration into the proposed 570,000-square-foot warehouse, as well as relocating minor amounts of waste. The site development and subdivision plans were approved by Edison Township in the fall of 2007 and the necessary DEP permits were secured in late 2007. The property was transferred to the new owners early in 2008.

In October 2008, in addition to the post-closure maintenance tasks required by various state permits and regulations, SAI assumed management of the operation of the groundwater recovery system (GWRS) at the site. This system was put in place to prevent leachate-impacted groundwater from discharging into the nearby Raritan River.

The GWRS was designed and installed by another consultant, with the goal of remaining in operation until the year 2037. However, ILR found this system to be poorly designed and fraught with significant operational problems. SAI was asked to assess both the underlying need for the system and its engineering design. Leachate mound and groundwater dilution modeling performed by SAI strongly indicated that the existing groundwater monitoring wells, which were not properly double-cased, provided a direct conduit for leachate to move downward from the waste layer into the deeper geological strata called the Cape May Formation. Consequently, SAI recommended and oversaw replacement of the older monitoring wells with double-cased replacement wells. Subsequent groundwater quality sampling verified SAI's earlier modeling results, demonstrating that the older wells were indeed damaged, and had provided a highly inaccurate characterization of the extent of the impact of the landfill leachate on the Cape May Formation.

Based upon this new data, SAI designed and implemented a detailed hydrogeological field investigation to demonstrate that the ILR Landfill does not pose an environmental threat to the Raritan River, the nearest receptor. The NJDEP-approved studies included:

- An extensive surface water quality and sediment sampling program along a four-mile reach of the Raritan River;
- A flow and bathymetric survey of the section of the Raritan River adjacent to ILR;



- A detailed water level study of the multi-layered groundwater system, including its hydraulic interaction with the tidal Raritan River;
- A 24-hour constant rate aquifer pumping test of the Cape May Formation to derive critical aquifer parameter values;
- Installing and sampling monitoring wells near the river shoreline hydraulically downgradient of the ILR Landfill; and
- An advanced isotope study of the leachate and groundwater in the Cape May Formation.

SAI used the results of these studies to help delineate the complex hydrogeology of the site. This model was then used to perform groundwater contaminant transport modeling, surface water dispersion modeling, and groundwater/surface water dilution modeling. The modeling results further validated the results of the field study, demonstrating that the ILR Landfill has no measurable impact on the surface water quality of the Raritan River. The modeling results also supported the groundwater quality sampling and ISOTOPE analysis results, demonstrating that the potential contaminants of concern are significantly reduced with distance from the landfill due to a combination of sorption, degradation, and dilution.

As a result of these efforts, SAI is proposing the following changes to the closure/post-closure requirements:

- Terminate operation of the GWRS;
- Abandon extraction wells (also not properly double-cased) and install additional monitoring wells;
- Continue groundwater quality sampling for selected parameters and wells. If concentrations remain steady or decline after two years of sampling, then reduce sampling frequency from quarterly to semi-annually.

SAI is also in the process of acquiring final approval from NJDEP to redesignate the portion of the Cape May Formation that underlies the ILR Landfill from a potable Class II-A to a non-potable Class III-B designation. This will further minimize the need to perform active groundwater recovery.

The expected closure/post-closure requirement changes will save ILR millions of dollars in unnecessary expenses for re-design, construction, maintenance, and operation of the groundwater recovery system.

SAI manages all post closure activities at the site in accordance with the approved closure and post-closure plan. This includes maintenance of the final cover and final cover vegetation, maintenance of the stormwater management system, groundwater monitoring, and landfill gas migration monitoring. SAI has also prepared and submitted a post-closure financial plan for all of these post-closure maintenance activities. SAI continues to assist ILR in these activities and in evaluating additional development concepts for the remainder of the property.

## Other State Environmental Reviews

### Environmental Infrastructure Trust Financing and Environmental Reviews

CDM Smith has extensive experience assisting clients in obtaining funding through the New Jersey Environmental Infrastructure Trust financing (NJEIT). The Table 8-1

presents a partial list of projects, located throughout the state and of a diverse nature and size, where CDM Smith assisted with obtaining NJDEP/NJEIT financing, which includes conducting comprehensive environmental reviews.

Year	Client	Loan Amount (millions)	County	Environmental Reviews
1997	Northwest Bergen County UA	\$6.4	Bergen	Yes
1997	Florham Park SA	\$0.8	Morris	Yes
1998	Somerset Raritan Valley SA	\$19.9	Somerset	Yes
2000	Franklin Township SA	\$8.0	Somerset	Yes
2000	Two Rivers WRA	\$49.0	Monmouth	Yes
2000	Camden County MUA	\$7.2	Camden	Yes
2001	Franklin Township SA	\$3.2	Somerset	Yes
2001	Village of Ridgewood	\$20.3	Bergen	Yes
2001	City of Woodbury	\$3.2	Gloucester	Yes
2003	Linden Roselle SA	\$12	Union	Yes
2003	Somerset Raritan Valley SA	\$10	Somerset	Yes
2003	Private Water Company	\$10	Middlesex	Yes
2004	City of Newark	\$18.5	Essex	Yes
2007	Somerset Raritan Regional SA	\$12.3	Somerset	Yes
2007	Township of Parsippany-Troy Hills	\$8.3	Morris	Yes
2007	City of Newark	\$16	Essex	Yes
2009	Township of Parsippany-Troy Hills	\$25.3	Morris	Yes
2009	Somerset Raritan Valley SA	\$5.5	Somerset	Yes
2009	Lambertville MUA	\$7.0	Hunterdon	Yes
2009	Madison Chatham JM	\$2.6	Morris	Yes
2009	New Jersey WSA	\$4.9	Monmouth	Yes
2009	City of Newark	\$13	Essex	Yes
2010	City of Newark	\$12	Essex	Yes
2011	Linden Roselle SA	\$15	Union	Yes
2011	New Jersey American Water	\$78	Essex	Yes

Table 8-1. CDM Smith NJEIT-funded projects requiring environmental reviews.



# Tab 9 Subcontracts

CDM Smith will enter into multiple subcontractor arrangements so that we will meet, or exceed, the Small Business Enterprises (SBE) set-aside contract goal of 25 percent. With the use of subcontractors to CDM Smith, we acknowledge total responsibility for the entire contract.

CDM Smith has worked with each of these subcontract firms on previous or current projects, and

most of these firms have previous or current work experience on State of New Jersey (State) contracts.

Since we intend to subcontract portions of the work to meet, or exceed, the SBE set-aside contract goal, we have identified all subcontractor relationships as follows, including specific designations of the tasks to be performed by each subcontractor:

Subcontractor Name	Projected SBE Set-Aside Goals	Designation of Tasks
Amy S. Greene Environmental Consultants Inc.	3%	Wetlands delineation and biological resources assessment (task 3.2.10) and possibly desktop assessments (task 3.2.3) and development of environmental review records (task 3.2.4)
Brownfield Redevelopment Solutions, Inc.	5%	Field assessments (task 3.2.8) and possibly desktop assessments (task 3.2.3) and development of environmental review records (task 3.2.4)
Hunter Research, Inc.	3%	Compliance with Section 106 (tasks 3.2.5, 3.2.8, and possibly 3.2.10)
Lammey & Giorgio, P.C.	4%	Compliance with Section 106 (tasks 3.2.5, 3.2.8, and possibly 3.2.10)
Richard Grubb and Associates, Inc.	3%	Compliance with Section 106 (tasks 3.2.5, 3.2.8, and possibly 3.2.10)
Sadat Associates, Inc.	3%	Field assessments (task 3.2.8) and possibly desktop assessments (task 3.2.3) and development of environmental review records (task 3.2.4)
YU & Associates, Inc.	5%	Field assessments (task 3.2.8) and possibly desktop assessments (task 3.2.3) and development of environmental review records (task 3.2.4)

Attached and provided at the end of Tab 9 is the required information from each CDM Smith subcontractor demonstrating their SBE, WBE and/or MBE certifications in the State. Our completed subcontractor utilization plan form is presented in Tab 11 as required in Section 8.0 of the RFP.

CDM Smith shall be the single point of contact for all subcontract work. Unless provided for in the contract with the State, CDM Smith shall not contract with any other party for any of the services herein contracted without the express prior written approval of the State.

## 9.1 Small Business Subcontracting Set-Aside Contracts

CDM Smith will use local subcontractors as noted above, and intends to not only meet, but to exceed the set-aside contract goal of 25 percent. All of our subcontractors are registered with the N.J. Division of Revenue as Small Business Enterprises (SBE); a copy of the New Jersey of Revenue, Small Business Enterprise Unit's proof of registration as a small business for our subcontractors is provided in at the end of this Tab.

CDM Smith's subcontractor utilization plan form presented in Tab 11 is also included on the following page. We have taken the following actions to achieve the SBE set-aside subcontracting goal requirements:

1. Attempt to locate eligible small businesses in Categories I, II, and III appropriate to the RFQ.
2. Request a listing of small businesses by Category from the New Jersey Division of Revenue, Small Business Enterprise Unit.
3. Record efforts to locate eligible businesses, including the names of businesses contacted and the means and results of such contacts.
4. Provide all potential subcontractors with detailed information regarding the specifications.
5. Attempt, whenever possible, to negotiate prices with potential subcontractors submitting higher than acceptable price quotes.
6. Obtain, in writing, the consent of any proposed subcontractor to use its name in response to the RFP.
7. Maintain adequate records documenting efforts to achieve the set-aside subcontracting goals.

CDM Smith evaluated the inclusion of Category I subcontractors, however due to the volume of work and required schedule, the capacity of Category I firms is insufficient to perform 5% of the services, therefore none are included at this time. Note that Brownfield Redevelopment Solutions Inc., one of our subcontractors, is less than 12% above the Category I gross revenue limit, and we have attempted to spread the SBE set-aside amounts among small to larger SBE firms.

If awarded a contract by the State, CDM Smith shall notify each subcontractor listed in our utilization plan in writing.



## ***Subcontracts***

**Amy S. Greene Environmental  
Consultants Inc.**

- *Consent Letter*
- *SBE, DBE, MBE and/or WBE Certification*

**AMY S. GREENE  
ENVIRONMENTAL  
CONSULTANTS.**

*In Reply:* Please reference ASGECI #P9946C

June 24, 2013

Patricia Forgang  
CDM Smith, Inc.  
Raritan Plaza I - Raritan Center  
110 Fieldcrest Avenue, #8  
6<sup>th</sup> Floor  
Edison, NJ 08837

**VIA ELECTRONIC MAIL ([ForgangPK@cdmsmith.com](mailto:ForgangPK@cdmsmith.com)) AND U.S. MAIL**

Re: Request for Environmental Assessment Field Contractors for  
Environmental and Historic Preservation Reviews  
New Jersey's CDBG-DR Grant Program  
ASGECI Proposal #P9946C

Dear Ms. Forgang:

Amy S. Greene Environmental Consultants, Inc. (ASGECI) is pleased to join your team to provide environmental consulting services for the above-referenced project. I consent to the use of our company name in response to this Request for Proposal.

Enclosed please find resumes for proposed key personnel; hourly rates; a company profile; a list of relevant project experience; references; and our NJ SBE certification, NJ Business Registration Certificate and Certificate Employee Information Report.

Please contact me at (908) 788-9676, *extension 12*, if you have any questions. Thank you for this opportunity to offer our services.

Very Truly Yours,

**AMY S. GREENE ENVIRONMENTAL  
CONSULTANTS, INC.**

Amy S. Greene, *Professional Wetland Scientist*  
President

ASG/dp

Enclosures

# Tab 10

## Subcontractor References

*For each of our proposed subcontractors, CDM Smith submits (3) three references supporting the capabilities of our SBE subcontractor as they relate to this RFQ.*

### Amy S. Greene Environmental Consultants, Inc.

**Nancy Adrian** Principal Environmental Scientist  
NJ Department of Transportation  
Bureau of Environmental Services Division of Project Management  
PO Box 600, Trenton, NJ 08625-0600  
Tel. (609) 530-3469 • nancy.adrian@dot.state.nj.us  
Rt. 7 - William Penn Bridge Replacement

**William C. McBride** Environmental Specialist  
NJ Department of Military and Veteran Affairs  
Office of Environmental Compliance  
101 Eggerts Crossings Road  
PO Box 340, Lawrenceville, NJ 08648  
Tel. (609) 530-7136 • william.mcbride@njdmava.state.nj.us  
Sea Girt National Guard Training Center

**Bill Koch** Refuge Manager, U.S. Fish and Wildlife Service  
241 Pleasant Plains Road, Basking Ridge, NJ 07920  
Tel. (973) 425-1222 • bill\_koch@fws.gov  
Great Swamp National Wildlife Refuge

### Brownfield Redevelopment Solutions, Inc.

**Daniel Walsh, PhD** NYC Mayor's Office of Environmental Remediation  
Program Administrator  
New York City Brownfield Incentive Grant Program  
City of New York/NYCEDC  
253 Broadway, New York, NY 10007  
Tel. (212) 676-0386 • DWalsh@cityhall.nyc.gov

**JR Capasso** Division of Economic Development  
Brownfield Program Support Master Contract  
City of Trenton, New Jersey  
319 East State Street, Trenton, NJ 08608  
Tel. (609) 989-3501 • jcapasso@trentonnj.org

**Stephen Kehayes** Brick City Development Corp.  
Brownfield Program Manager  
City of Newark, New Jersey  
744 Broad Street, Suite 1110, Newark, NJ 07102  
Tel. (973) 273-2849 • kehayess@bcdcn Newark.org

## Hunter Research, Inc.

### MAIN REFERENCES

**Marilou Ehrler, Historical Architect**

Gateway National Recreation Area  
210 New York Avenue  
Staten Island, NY 10305  
718-354-4561 (office)  
marilou\_ehrler@nps.gov

**Lynn Rakos, Archaeologist**

U.S. Army Corps of Engineers, New York District  
26 Federal Plaza, Room 2143  
New York, NY 10278-0090  
917-790-8629  
Lynn.Rakos@nan02.usace.army.mil

### PROJECT REFERENCES

**Joel Dukes, Archeologist**

Statue of Liberty  
Northeast Region Archeology Program  
National Park Service  
115 John Street  
Lowell, MA 01852-1195  
978-970-5143  
joel\_dukes@nps.gov

**Gary Self, P.E., Senior Group Manager**

**Atkins**

4601 DTC Boulevard, Suite 700  
Denver, CO 80237  
720-475-7142 (office)  
303-907-8187 (cell)  
gary.self@atkinglobal.com

**Donna M. Blaze, CEO**

Phase I Cultural Resources Survey-  
Ely/Allen House Property  
Affordable Housing Alliance  
59 Broad Street  
Eatontown, NJ 07724  
732-389-2958

MHA-CEO@housingall.org

**Frederick F. Shaw, Appraiser**

Newark Field Office  
U.S. Housing and Urban Development  
One Newark Center, 13th Floor  
Newark, NJ 07012-5260  
973-776-7275  
frederick.f.shaw@hud.gov

**Delaware Department of Transportation**

**David Clarke, Archaeologist**

Cultural Resources Task Order Agreement, Statewide  
Delaware Department of Transportation  
800 Bay Road  
Dover, DE 19901  
302-739-8282  
david.clarke@state.de.us

**Gwen Davis, Deputy State Historic Preservation Officer**

Delaware State Historic Preservation Office  
21 The Green  
Dover, DE 19901  
302-736-7400  
gwen.davis@state.de.us

**99<sup>th</sup> Regional Support**

**Amanda Murphy, Program Coordinator**

Environmental Planning and Cultural Resources  
US Army Reserve, 99th Regional Support Command  
5231 S. Scott Plaza  
Fort Dix, NJ 08640  
609-562-7666  
amanda.w.murphy.ctr@mail.mil

**Cristie Mitchell, P.E.**

Environmental Engineering  
CELRL-ED-E-E  
600 Martin Luther King, Jr. Place, Room 351  
Louisville, KY 40202  
502-315-6319  
cristie.l.mitchell@usace.arm.mil

## Lammey & Gorgio, P.C.

<b>Joseph Alessi</b>	<b>Historic Renovations, NJ Pineland Commission</b> New Jersey Building Authority (609) 943-4836 Joseph.Alessi@treas.state.nj.us
<b>Edward Mulvan</b>	<b>Historic Renovations, Statewide</b> State of New Jersey - DEP (609) 984-3819 emulvan@dep.state.nj.us
<b>William White</b>	<b>Historic Renovations, Fort Mott State Park</b> State of New Jersey - DEP (609) 802-5886 william.white@dep.state.nj.us

## Richard Grubb & Associates, Inc.

<b>Joseph Sweger, Manager</b>	NJDOT NJDOT Three-Year Term Agreement, Cultural Resources Services 1035 Parkway Avenue, Trenton, NJ 08625 609-530-2985 joseph.sweger@dot.state.nj.us
<b>David Clarke, Archaeologist</b>	DelDOT DelDOT Parent Agreement 1537, Cultural Resources Services P.O. Box 778, 800 Bay Road Dover, DE 19903 302-760-2271 david.clarke@state.de.us
<b>Timothy Binzen, Archaeologist</b>	U.S. Fish and Wildlife Service (USFWS), Region 5 Indefinite Delivery/Indefinite Quantity (IDIQ) Contract, Cultural Resources Services 300 Westgate Center Drive, Hadley, MA 01035 413-253-8731 timothy_binzen@fws.gov

### Sadat Associates, Inc.

- Mr. Kevin G. Miller**      New Jersey Schools Development Authority  
1 West State Street  
P.O. Box 991  
Trenton, NJ 08625-0991  
Tel. (609) 943-5955 • kmiller@njsda.gov
- Mr. Gary Lotano**      ILR  
9 Central Avenue  
Toms River, NJ 08753  
Tel. (609) 514-5970 • lotanodev@aol.com
- Mr. Bo Farkas**      Prologis  
1 Meadowlands Plaza  
Suite 100  
East Rutherford, NJ 07073  
Tel. (201)635-6026 • bfarkas@prologis.com

### YU & Associates , Inc.

- Mike Dirac**      NYCSCA  
30-30 Thompson Avenue  
Long Island City, NY 11103  
Tel. (718) 472-8720 • m.dirac@nycsa.org
- Mr. Jeffrey Dugan**      Dattner Architects  
130 West 57th Street  
New York, NY 10019  
Tel. (212) 247-2660 • jdugan@dattner.com
- Mr. Steve Lang**      Prismatic Development  
60 Route 46  
Fairfield, NJ 07004  
Tel. (973) 882-1133 Work • stevelang@prisdev.com



**REQUIRED SUBMISSION IF BIDDER INTENDS TO SUBCONTRACT**

STATE OF NEW JERSEY DIVISION OF PURCHASE AND PROPERTY (DPP)  <b>SUBCONTRACTOR UTILIZATION PLAN</b>	<b>DPP Solicitation No.:</b> RFQ787923S
<b>Bidder's Name and Address:</b> CDM Smith 110 Fieldcrest Avenue, #8 6th Floor Edison, New Jersey 08837	<b>DPP Solicitation Title:</b> Program Management & Environmental & Historic Field Ass.
	<b>Bidder's Telephone No.:</b> 7322257000
	<b>Bidder's Contact Person:</b> Thomas Schoettle

**INSTRUCTIONS:** List all businesses to be used as subcontractors. This form may be duplicated for extended lists.

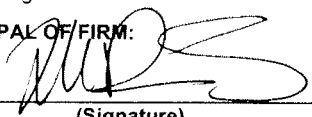
SUBCONTRACTOR'S NAME ADDRESS, ZIP CODE TELEPHONE NUMBER AND VENDOR ID NUMBER	CHECK HERE IF CONTRACT IS NOT SMALL BUSINESS <input checked="" type="checkbox"/>			TYPE(S) OF GOODS OR SERVICES TO BE PROVIDED	ESTIMATED VALUE OF SUBCONTRACTS
	SMALL BUSINESS CATEGORY *				
	I	II	III		
Amy S. Greene Environmental Consultants Inc. 4 Walter E Foran Blvd., Suite 209 Flemington, NJ 08822 [REDACTED]		X		Prof. Env. Svcs.	3%
Brownfield Redevelopment Solutions, Inc 739 Stokes Road, Unit A&B Medford, NJ 08055 [REDACTED]		X		Prof. Env. Svcs.	5%
Hunter Research, Inc 120 West State Street Trenton, NJ 08608 [REDACTED]		X		Cult. Res. Svcs.	3%
Lammey & Giorgio PA 215 Highland Avenue, Suite B Haddon Township, NJ 08108 [REDACTED]		X		Cult. Res. Svcs.	4%
Richard Grubb & Associates 259 Prospect Plains Road, Building D Cranbury, NJ 08512 [REDACTED]		X		Cult. Res. Svcs.	3%

\* For those Bidders listing Small Business Subcontractors: Attach copies of Division of Revenue - Small Business Enterprise Unit registration for each subcontractor listed. If bidder has not achieved established subcontracting set-aside goals, also attach documentation of good faith effort to do so in the relevant category in accordance with NJAC17:13-4 and the Notice to All Bidders.

I hereby certify that this Subcontractor Utilization Plan (Plan) is being submitted in good faith. I certify that each subcontractor has been notified that it has been listed on this Plan and that each subcontractor has consented, in writing, to its name being submitted for this contract. Additionally, I certify that I shall notify each subcontractor listed on the Plan, in writing, if the award is granted to my firm, and I shall make all documentation available to the Division of Purchase and Property upon request.

I further certify that all information contained in this Plan is true and correct and I acknowledge that the State will rely on the truth of the information in awarding the contract.

**PRINCIPAL OF FIRM:**



(Signature)

Vice President

(Title)

June 26, 2013

(Date)

**REQUIRED SUBMISSION IF BIDDER INTENDS TO SUBCONTRACT**

STATE OF NEW JERSEY DIVISION OF PURCHASE AND PROPERTY (DPP)  <b>SUBCONTRACTOR UTILIZATION PLAN</b>	<b>DPP Solicitation No.:</b> RFQ787923S
<b>Bidder's Name and Address:</b> CDM Smith 110 Fieldcrest Avenue, #8 6th Floor Edison, New Jersey 08837	<b>DPP Solicitation Title:</b> Program Management & Environmental & Historic Field Ass.
	<b>Bidder's Telephone No.:</b> 7322257000
	<b>Bidder's Contact Person:</b> Thomas Schoettle


**INSTRUCTIONS:** List all businesses to be used as subcontractors. This form may be duplicated for extended lists.

SUBCONTRACTOR'S NAME ADDRESS, ZIP CODE TELEPHONE NUMBER AND VENDOR ID NUMBER	CHECK HERE IF CONTRACT IS NOT SMALL BUSINESS <input checked="" type="checkbox"/>			TYPE(S) OF GOODS OR SERVICES TO BE PROVIDED	ESTIMATED VALUE OF SUBCONTRACTS
	SMALL BUSINESS CATEGORY *				
	I	II	III		
SADAT Associates, Inc. 1545 Lambertson Road Trenton, NJ 08611 [REDACTED]	X			Prof. Env. Svcs.	3%
Yu & Associates Inc. 200 Riverfront Blvd Elmwood Park, NJ 07407 [REDACTED]			X	Prof. Env. Svcs.	5%

\* For those Bidders listing Small Business Subcontractors: Attach copies of Division of Revenue - Small Business Enterprise Unit registration for each subcontractor listed. If bidder has not achieved established subcontracting set-aside goals, also attach documentation of good faith effort to do so in the relevant category in accordance with NJAC17:13-4 and the Notice to All Bidders.

I hereby certify that this Subcontractor Utilization Plan (Plan) is being submitted in good faith. I certify that each subcontractor has been notified that it has been listed on this Plan and that each subcontractor has consented, in writing, to its name being submitted for this contract. Additionally, I certify that I shall notify each subcontractor listed on the Plan, in writing, if the award is granted to my firm, and I shall make all documentation available to the Division of Purchase and Property upon request.

I further certify that all information contained in this Plan is true and correct and I acknowledge that the State will rely on the truth of the information in awarding the contract.

**PRINCIPAL OF FIRM:**  Vice President June 26, 2013

(Signature) (Title) (Date)

## **Affirmative Action and Equal Employment Opportunity Policy**

**CDM Smith's  
policy on  
affirmative  
action and equal  
employment  
opportunity is  
presented in  
the following  
statement. It  
applies to all  
employees and  
qualified  
applicants.**

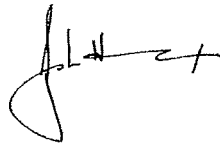
It is, and will continue to be, the policy of CDM Smith to provide equal employment opportunity to all employees and candidates for employment. The firm will assure that qualified applicants who are recruited and hired, and employees at all levels, are not discriminated against because of their race, color, religion, creed, sex, age, marital status, sexual orientation, disability, veteran status, national origin, citizenship status or any other characteristic protected by applicable law. CDM Smith will continue to promote the full realization of equal employment through a positive continuing program.

CDM Smith's employment decisions are based only on job-related criteria. Equal opportunity and equal consideration will be afforded to all applicants and employees in personnel actions, which include recruiting and hiring, training, promotion, transfer, termination, all compensation practices, benefits or social activities and programs. It is our intention, in the implementation of this policy, to provide full employment opportunities for qualified members of minority groups, women, those with a disability, and all covered veterans, and to provide opportunities at all job levels through upgrading and recruiting actions.

Furthermore, it is our policy to coordinate the affirmative action programs directed at seeking qualified personnel from minority groups, women's groups, organizations of and for disabled persons, and organizations for all covered veterans for employment with the firm, and also to provide encouragement and direction to our staff to advance within the limits of each individual's capabilities. CDM Smith considers the attainment of equal employment opportunity for all as a major corporate objective and expects the active and effective support of every employee.

In addition, employees and applicants will not be subjected to harassment, intimidation, threats, coercion or discrimination because they have engaged in, or may have engaged in, activities such as filing a complaint; assisting or participating in an investigation, compliance review or hearing; opposing any act or practice made unlawful; or exercising any other right protected by Section 503 of the U.S. Rehabilitation Act of 1973, as amended, or the Vietnam Era Veterans Readjustment Assistance Act of 1974, as amended. If you have any concerns regarding this policy or CDM Smith's compliance with it, you may contact Corporate Human Resources directly at 800 243-2677.

The senior vice president of Human Resources has been designated equal employment opportunity officer for CDM Smith and its subsidiaries and will monitor CDM Smith's Affirmative Action Program and report to me on its success.



Stephen J. Hickox  
Chief Executive Officer  
January 1, 2013

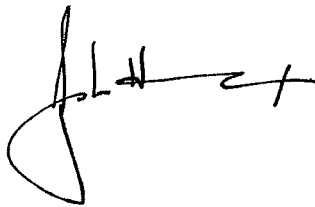
## **Zero Tolerance Discrimination Policy**

**CDM Smith's  
Zero Tolerance  
Discrimination  
Policy affirms  
the right of all  
employees to  
work in an  
environment  
free from  
discriminatory  
speech or  
behavior.**

CDM Smith has adopted the following Zero Tolerance Discrimination Policy that affirms the right of all employees to work in an environment free from discriminatory speech or behavior. CDM Smith's vision statement affirms that we will be the employer of choice by providing superior opportunities for the best people in the industry. A key goal in supporting that vision is to develop and promote staff diversity, and to create an environment in which a diverse workforce is valued, nurtured and sustained.

Discrimination in any form—harassment, quid pro quo sexual harassment or hostile work environment, or discrimination against any individual based upon any protected group status, such as race, color, religion, sex, age, marital status, sexual orientation, disability, veteran status, national origin, creed, citizenship status or any other characteristic protected by applicable law—will not be tolerated at CDM Smith or any of its subsidiaries. Discriminatory conduct is a violation of the law and can subject the firm and individuals within the firm to civil liability and punitive damages. Discrimination is incompatible with the firm's values and counterproductive to our goals.

CDM Smith's management is committed to responding to concerns, answering questions, resolving problems and making every effort to ensure that CDM Smith's workplace is free from discrimination of any kind. If you have any concerns about the discriminatory conduct prohibited by this policy, please contact your direct manager, or someone within the management chain of your division or business unit. You may also contact Corporate Human Resources directly at 800 243-2677. CDM Smith is committed to a diverse workplace in which all employees are treated fairly, rewarded on merit, and respected as individuals and professionals.



Stephen J. Hickox  
Chief Executive Officer  
January 1, 2013

# Tab 12

## Cost Quote and Price Schedule/Sheet

### Assumptions to CDM Smith's Cost Estimate

- The applications CDM Smith receives for review will be reasonably accurate and will contain the information required to complete the required review. CDM Smith will not be responsible for obtaining additional information from applicants if necessary.
- If an application changes, CDM Smith will be compensated for the additional work required to update the ERR to fit the modified application.
- Exterior inspection of each property proposed for funding will be required to fully comply with HUD requirements, particularly those related to hazardous materials and flammable and explosive substances. We have assumed that no interior inspection will be required for completion of environmental reviews.
- Written authorization for EAF contractors to enter properties for which an application has been submitted will be obtained by others before CDM Smith receives the application for review.
- Additional FEMA requirements can be addressed in a manner similar to the methodology used in the tier 1 environmental assessment and the tier 2 checklist for the Rehabilitation, Reconstruction, Elevation and Mitigation (RREM) Program and the Small Rental Properties Program.
- All tiered and stand-alone reviews will include completion of the 8-step process for the 100-year floodplain and/or wetlands.
- Twenty-five percent of the properties will require "standard project review" under Stipulation II.C of the historic preservation programmatic agreement.
- Section 3.2.11 of the RFQ states, "The State Contract Manager will also issue Task Orders to publish NOI-FONSI/RROF as required for the Request for Release of Funds from HUD and NOI for Environmental Assessments and Environmental Impact Statements." CDM Smith assumes this means the cost of publishing notices does not need to be included in CDM Smith's firm fixed prices for the types of reviews that involve notices.
- Staff in addition to those identified in the staffing plan may be needed to complete the tasks outlined in this proposal. CDM Smith reserves the right to add additional staff with suitable qualifications to the staffing plan without NJDEP's approval. It is assumed that only the Program and Technical Directors as well as the Principal Advisors are key personnel that will require State Contract Manager approved prior substitution. CDM Smith will notify NJDEP of all changes to the staffing plan.
- The assessments will not include inventory of typical homeowner household hazardous materials (such as properly labeled smaller containers). The assessment will include an inventory larger and clearly suspect hazardous materials. No interior inspections of any structures will be performed.
- Signs of failing septic systems will be based on human perception of odor and visual signs of breakouts.

**"Cost Quote Price Schedule 2 EAF Contractor - Firm Fixed Pricing**

Pricing for services required under this RFQ will be a blend of firm fixed rates and hourly rates. Bidders must complete all price cells within the Price Schedule or be deemed non-responsive."

Line No.	Description	Unit	"Estimated Quantity (A)"	"Year 1 (B)"	"Year 1 Total (A) * (B)"	"Year 2 (C)"	"Year 2 Total (A) * (C)"	"Year 3 (D)"	"Year 3 Total (A) * (D)"
1	"Base Price per application for Exempt (Volume 1 to 100) Section 3.2.2"	Each	100	\$135.93	\$13,593.34	N/A	N/A	N/A	N/A
2	"Base Price per application for Exempt (Volume 101 to 200) Section 3.2.2"	Each	100	\$132.00	\$13,200.01	N/A	N/A	N/A	N/A
3	"Base Price per application for Exempt (Volume >200) Section 3.2.2"	Each	100	\$130.69	\$13,068.90	\$135.00	\$13,500.18	\$139.46	\$13,945.68
4	"Base Price per application (Fixed Fee) for Categorically Excluded Subject to 58.5 (Volume 1 to 100) Section 3.2.4"	Each	100	\$9,243.47	\$924,346.89	\$9,548.50	\$954,850.34	\$9,863.60	\$986,360.40
5	"Base Price per application (Fixed Fee) for Categorically Excluded Subject to 58.5 (Volume 101 to 200) Section 3.2.4"	Each	100	\$8,976.01	\$897,600.71	\$9,272.22	\$927,221.53	\$9,578.20	\$957,819.84
6	"Base Price per application (Fixed Fee) for Categorically Excluded Subject to 58.5 (Volume GT 200) Section 3.2.4"	Each	100	\$8,886.85	\$888,685.31	\$9,180.12	\$918,011.93	\$9,483.06	\$948,306.32
7	"Base Price per application (Fixed Fee) for non-tiered Environmental Assessments (Volume 1 to 100) Section 3.2.2"	Each	100	\$21,205.61	\$2,120,560.51	\$21,905.39	\$2,190,539.01	\$22,628.27	\$2,262,826.80
8	"Base Price per application (Fixed Fee) for non-tiered Environmental Assessments (Volume 101 to 200) Section 3.2.2"	Each	100	\$20,592.02	\$2,059,201.63	\$21,271.55	\$2,127,155.28	\$21,973.51	\$2,197,351.40
9	"Base Price per application (Fixed Fee) for non-tiered Environmental Assessments (Volume GT 200) Section 3.2.2"	Each	100	\$20,387.49	\$2,038,748.66	\$21,060.27	\$2,106,027.37	\$21,755.26	\$2,175,526.27
10	"Base Price per application for Tier 2 Site Specific Reviews (Volume 1-100) Section 3.2.8"	Each	100	\$2,446.80	\$244,680.06	\$2,527.55	\$252,754.50	\$2,610.95	\$261,095.40
11	"Base Price per application for Tier 2 Site Specific Reviews (Volume 101-200) Section 3.2.8"	Each	100	\$2,376.00	\$237,600.19	\$2,454.41	\$245,440.99	\$2,535.41	\$253,540.55
12	"Base Price per application for Tier 2 Site Specific Reviews (Volume GT 200) Section 3.2.8"	Each	100	\$2,352.40	\$235,240.23	\$2,430.03	\$243,003.16	\$2,510.22	\$251,022.26
13	"FEMA Addendum Section 3.2.3, 3.2.8"	Each	UNK	\$-		\$-		\$-	
14	"Reporting Functions Section 3.2.13, 3.2.14, 3.2.15"	Month	12	\$10,000.00	\$120,000.00	\$10,330.00	\$123,960.00	\$10,670.89	\$128,050.68
15	"Environmental Impact Statement Fee Section 3.2.2"	Each	UNK	\$3,000,000		\$3,099,000		\$3,201,267	
					\$9,806,526.44		\$10,102,464.29		\$10,435,845.61

**Cost Quote Price Schedule 2 EAF Contractor - Loaded Hourly Rate Pricing**

A bidder must fit its existing personnel and that of proposed subcontractors in the following Labor Titles.

Line #	Labor Title	Hourly Rate Year 1	Hourly Rate Year 2	Hourly Rate Year 3
<b>Office and Management Staff</b>				
16	Principal	\$240.17	\$248.10	\$256.29
17	Program Director	\$206.03	\$212.83	\$219.85
18	Task Manager	\$178.41	\$184.30	\$190.38
<b>Project Field Staff</b>				
19	Field Manager	\$178.41	\$184.30	\$190.38
20	Field Professional	\$154.96	\$160.07	\$165.36
21	Principal/Senior EnvH. Scientist/Engineer/Architect	\$154.96	\$160.07	\$165.36
22	Principal/Senior Biologist	\$154.96	\$160.07	\$165.36
23	Principal/Senior Historic Preservation Specialist	\$154.96	\$160.07	\$165.36
24	Senior Hydrogeologist	\$154.96	\$160.07	\$165.36
25	Junior Hydrogeologist	\$116.58	\$120.43	\$124.40
26	Field Associate	\$120.08	\$124.04	\$128.14
27	Field Observer	\$97.50	\$100.72	\$104.04
28	Staff Environmental Scientist, Engineer, Architect	\$130.53	\$134.84	\$139.29
29	Hydrogeologist	\$130.53	\$134.84	\$139.29
30	Senior Technician	\$130.53	\$134.84	\$139.29
31	Junior Technician	\$72.37	\$74.76	\$77.23
32	Senior GIS Specialist	\$154.96	\$160.07	\$165.36
33	Junior Gis Specialist	\$84.98	\$87.78	\$90.68
34	Administrative Support/Data	\$94.77	\$97.90	\$101.13