



Environmental Engineering Services
Solicitation #RFQ-4427-14-IS
August 19, 2014



URS

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Mr. Ian Superville
Procurement Contracts Officer
Procurement Services Division
P.O. Box 229045
Hollywood, Florida 33022-0945

RE: Environmental Engineering Services - Solicitation # RFQ-4427-14-IS

Dear Mr. Superville,

URS Corporation Southern (URS) is pleased to submit our team's qualifications, for your consideration, to assist the City of Hollywood in conducting all the required environmental and geotechnical engineering services to redevelop approximately 22 acres of City owned property at 1600 South Park Road. URS is a global, full service engineering firm with the ability to provide a full spectrum of these services. We have a proven track record conducting *Sustainable Return on Investment* (sROI) analyses for the redevelopment of abandoned properties and are confident we can help the City put this property back to productive use. With over 200 professionals located in the tri-county area, URS has successfully served as an environmental engineering consultant to a variety of municipal clients locally for well over 30 years. Supporting the URS Team on this endeavor will be key vendors Enviro Drill, Inc., GeoView, Inc., and Pace Analytical Lab.

Based on the Scope of Work provided in the referenced solicitation, we believe URS is uniquely qualified for the following reasons:

1. The URS Team will be led by Mr. Vivek "Vik" Kamath, P.E. whose experience with this project dates back to 2007. A list of Mr. Kamath's relevant experience includes :
 - **2007** - Completion of Site Investigation Report and approval from the Florida Department of Environmental Protection (FDEP)
 - **2008** - Presentation of Redevelopment Alternatives Report to the City
 - **2011** - Assistance with Community Meetings and Brownfields Designation and Developer Procurement Services
 - **2012** - Analysis of Brownfields Cleanup Alternatives (ABCA) Report for the City

In addition, Mr. Kamath's previous experience as a regulator with the FDEP will provide significant value in effectively redeveloping the site in accordance with applicable state, local and federal regulations.

2. While our core Project Team has extensive experience working at the 1600 South Park site during the initial assessment and redevelopment planning stages, due to the requirements of this phase we have included additional key personnel to support the City:
 - **Mr. Robert E. Wallace, P.E.**, is a Senior Engineer with URS with more than 40 years of experience working on solid waste management landfills, redevelopment projects, environmental and geotechnical engineering projects. He will serve as the Technical Advisor for our Project Team.
 - **Ms. Sarah Rubin, CHHM**, is our in-house Brownfields Expert who has assisted many cities and counties in procuring Brownfields and other redevelopment grants;

- **Ms. Andrea Bohmholdt**, Senior Economist who has assisted our clients for doing life-cycle analysis and sROI analyses for various redevelopment projects. We think her expertise will be important once the field investigations have been completed and the City starts considering the alternatives available for redevelopment.
- **Gary M. Garfield, PE, LSP**, Senior Engineer with experience in redevelopment of many old landfills including a recently completed 2.5 MW Landfill Solar Photo Voltaic Cell Project for NextSun Energy, LLC, for a landfill in Rockland, MA.

As the Principal-in-Charge, I have structured a team poised to deliver on this important project for the City. We are eager to continue our work with the City on this next phase of redevelopment, and finally get this old landfill property back on the tax roll again. Should you have any questions regarding the content of our response, please feel free to contact me anytime.

Kindest Regards,

A handwritten signature in blue ink, appearing to read 'D. Levy', is positioned above the printed name and title.

Daniel J. Levy, PG
Vice President / Principal-in-Charge
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Miami, FL 33126
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1.0 Consultant Profile

Required Information	Response
Firm Contact Information	URS Corporation Southern Mr. Vivek "Vik" Kamath, PE – Project Manager 7650 Corporate Center Drive, Suite 400 Miami, FL 33126 Tel: (305) 262-7466 Fax: (305) 261-4017 Cell: (305) 790-5829 e-mail: Vik.Kamath@URS.com
Services Offered	Environmental, Engineering, Geotechnical, Hydrogeology, Permitting, Human Health Assessment, Solid Waste, Architecture
Number of Years in Business	33
Number of Employees	91
Office Location	7650 Corporate Center Drive, Suite 400 Miami, FL 33126
Florida Certificate of Authorization License Number	2

Firm Background

URS, one of the largest architectural, engineering, environmental, and program and construction management companies in the world, has provided a broad range of professional services, including planning, architectural and engineering design for nearly a century. With over 50,000 talented professionals in more than 300 offices worldwide, the company serves public and private clients in the facilities, surface transportation, air transportation and environmental markets. We offer the advantages of size, geographic diversity, and the ability to provide virtually all of the services required to accomplish the most complex program requirements. URS' in-house staff of planners, architects, engineers, scientists, program and construction managers, computer specialists, and support personnel enables us to respond quickly to demanding project schedules and changes in project scopes. We have the resources to manage all phases of a project from inception and planning, through design and construction.

If selected, the URS Team will utilize its Miami-Dade County office located at 7650 Corporate Center Drive (with 91 existing staff) as its headquarters for administering this project. Our facility is easily accessible from the City's Public Works Operations office on South Park Road. It is important to note that URS has comprehensive resources

(staffing and offices) throughout South Florida. Specifically, URS has 2 offices in the tri-County area including Miami and Boca Raton. Our total local employees are in excess of 200. We have the resources available to serve the City of Hollywood as needed.

The URS Miami office is a fully equipped, state-of-the-art, 25,000 sq.ft. facility with over 100 Windows workstations, T-1 internet and e-mail access, Local Area Network managed with Windows Server, 16 Laser Jet printers, 2 Color Copiers, 4 B&W Copiers, and 2 Color Plotters.



URS Corporation is currently ranked as one of the top three design firms for over a decade and has provided planning & design services for major facilities and community projects throughout the world.

Strategic Development Planning

Today's real estate development environment requires an increasing level of expertise to successfully bring development to the marketplace. URS' Strategic Development Planning practice (formerly of Arthur

Andersen LLP) offers this expertise with a multi-disciplinary approach that provides a full range of development planning services, economic development strategies, brownfield services, and redevelopment planning to land and property owners, the public sector, developers and financial institutions. Through our extensive network of contacts in the real estate, financial, and industrial communities, we help many of our clients develop mutually beneficial business and financial relationships. URS has leveraged experience with development projects, as well as national and international companies with an interest in properties across the country, to link property owners with end-users. Our broad range of relationships, experience and resources allows us to provide our clients an unparalleled level of service.

Economic Development Strategies

URS professionals have developed strategies for large and small cities and other public agencies across the United States and Canada. Our team brings a unique multi-disciplinary, private sector viewpoint to each project. Our services include growth sector analysis, area redevelopment plans, business retention and recruitment strategies, brownfield redevelopment, incentives analysis, tourism strategies, and developer request for proposal (RFP) preparation. Our experience covers both urban and suburban environments and includes industrial, retail and residential property types.

Strategic Development Planning

Development Planning

URS provides a full range of development planning services to land and property owners, developers and financial institutions to assist our clients in moving a project from initial concept to final execution. Depending on the complexity of the project and the needs of the client, we offer services in market and site analysis, market feasibility, financial feasibility and sensitivity analysis, development approvals, economic impact, and public sector funding analysis and strategies.

We use a wide range of research tools, including primary market research, secondary research, competitive analysis and consumer research to effectively define the product, identify the buyer/tenant profile and position the new development in the market. Additionally, URS offers expert professionals in the areas of planning, engineering and architectural design, and construction oversight who can serve our clients directly or work hand-in-hand with the client's land planners and architects to verify this positioning is appropriately reflected from the ground up.

Our commercial service experience encompasses all property types including retail, office, industrial, convention and meeting centers, public assembly facilities, and urban mixed-use developments. Our residential service includes master-planned communities, condominiums, apartments and golf course communities.

Brownfield Services

URS is a nationally recognized leader in planning and implementation of redevelopment projects. We have built a reputation with municipalities and industry by participating in the successful redevelopment of hundreds of brownfield properties. As the largest design, architecture and engineering firm, URS has the turnkey resources to administer a successful redevelopment program from start to finish. URS applies this expertise and our understanding of the various elements of the integrated property reuse process to projects on behalf of our clients.

We assist public entities, property owners, and private developers by addressing the potential opportunities represented by industrial brownfields. Our services include program management, environmental assessment and remediation, infrastructure assessment and planning, market analysis, site and master planning, funding strategies (including the use of Housing and Urban Development (HUD) Section 108 Loan Guarantees), request for proposal (RFP) process, coordination of community involvement, construction oversight, and business attraction strategies and end user targeting. URS tailors our approach to redevelopment and the combination of these services to meet each individual client and project's needs.

URS Team promotes sustainable investment strategies from an objective and transparent perspective. A defining feature of this methodology is the inclusion of key stakeholders throughout the process. Based on project type, a group of stakeholders may include the Owner, the Project Team, Technical and Subject Matter Experts, a Facilitator, and an Economist as well as members of the community.

Leadership in Government Incentives

URS creates public-private financing strategies for many of our projects. We have large-scale experience in government incentives, including tax increment financing (TIF), property tax incentives, special service areas, business improvement districts, land write-downs and other tax credits. We have consulted on issues relating to projection of tax increment used for municipal financing,

establishment of a Redevelopment Project Area, quantification of the economic feasibility and impact, structuring of incentives packages, financing mechanisms available and on-going performance reviews of public-private projects.

Sustainable Return on Investment (sROI) – a Triple Bottom Line Approach: A cost-benefit analysis of sustainable investment strategies can provide design teams and decision-makers with a more complete picture of the “triple bottom line” – the project’s economic, environmental, and social value. Many benefits that are largely non-financial (improved safety, ecosystem services, reduced CO₂ emissions) can be converted into monetary terms along with the more traditional financial benefits (energy saved, water conserved). sROI analysis accounts for the economic, social, and environmental impacts of projects. Many benefits that are typically not valued in the marketplace, such as water quality, productivity, or safety, are quantified in monetary terms (dollars), providing a framework for optimal decision-making.

Benefits to using sROI:

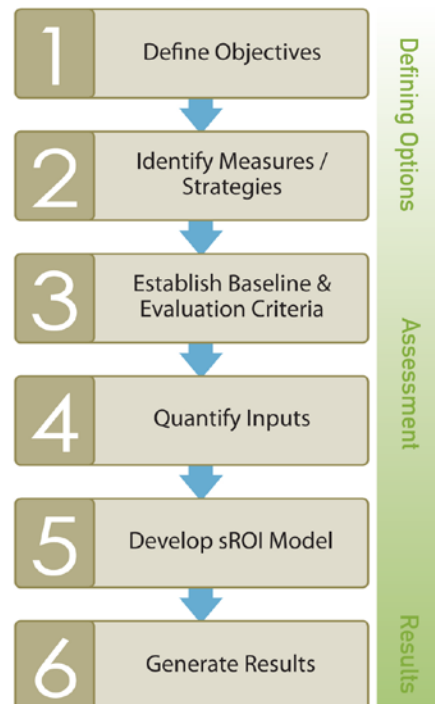


- A proven Cost-Benefit Analysis-based approach to making planning and budgeting decisions
- Fully incorporates non-cash benefits and externalities into the decision-making process
- Provides a full range of possible outcomes using state-of-the-art risk analysis techniques
- Helps generate consensus by being both interactive and transparent
- Takes the emotion out of the decision-making process
- Does not “greenwash” a project
- Is an invaluable tool to help projects justify and secure funding

Process...

- Step 1:** Define objectives and project context – size of project, source of funding, timeline, etc.
- Step 2:** Identify measures – which strategies should be considered to meet project objectives
- Step 3:** Establish baseline and evaluation criteria - potential economic, social and environmental impacts for each strategy, and boundaries for the life-cycle analysis
- Step 4:** Quantify Inputs - incremental impacts monetized based on economic methods, with the sROI workshop held to reach consensus on the proper values
- Step 5:** Develop sROI Model – inputs incorporated into the model, which is then run
- Step 6:** Generate Results – risk and uncertainty analysis, and s-curves

sROI Methodology Process



2.0 Technical Approach to Projects

This section describes our firm's expertise with the methods, hardware, and software necessary to perform the project scope and services described in this RFQ.

The City of Hollywood is requesting the services of an environmental engineering firm to provide a full spectrum of environmental and engineering services in order to facilitate the redevelopment of the former 22 acre landfill at 1600 South Park Road. Specifically, the City intends to obtain cost estimate for remediation of the site for beneficial reuse. The end product of this project will be a Geotechnical Investigation Report with a follow-up sampling and testing program and protocols, as maybe required by the appropriate regulatory agencies.

The following section describes the URS Team's approach to completing the Geotechnical Investigation Report for the 22 acre landfill site. We are confident that our streamlined approach will provide the City with a quality report which will present all the remediation and redevelopment alternatives the site will support and also satisfy the regulatory requirements.

We believe that URS is uniquely qualified to under the scope of work presented in this RFQ considering the fact we have been associated with former landfill since 2007.

To date, URS has provided the following services to the City of Hollywood that are directly related to the Scope of Work presented in this RFQ:

1. Completion of Site Investigation Report and approval from the Florida Department of Environmental Protection (FDEP) – 2007
2. Presentation of Redevelopment Alternatives Report to the City – 2008
3. Assistance with Community Meetings and Brownfields Designation and Developer Procurement Services – 2011
4. Analysis of Brownfields Cleanup Alternatives (ABCA) Report for the City – 2012

With this long history, we believe our team is already aware of the key issues associated with this project:

Regulatory Issues – URS Project Manager has 20 years of Regulatory Experience

The former landfill site has a long history of environmental regulatory issues but with the approval of the SAR in 2007 that was prepared by URS, FDEP does not consider this

project a high-priority, mainly due to the nature of the environmental contamination on the landfill property.

This project will be managed by Mr. Vivek "Vik" Kamath, PE who has more than thirty (30) years of environmental experience working on projects in the South Florida area. Prior to joining URS, Mr. Kamath was the Administrator for Waste Programs at the FDEP District office in West Palm Beach where he worked on environmental assessment, remediation and permitting for almost twenty (20) years. Mr. Kamath is very familiar with the requirements of Chapter 62-780, FAC, and provides regulatory knowledge and experience that is unmatched.

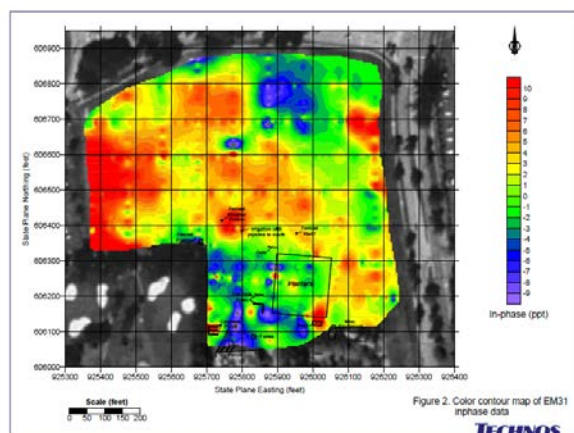
Human Health Issues – URS Team has an Expert on Human Health Issues

The URS Team believes that the potential presence of dioxins and furans will require special understanding of the regulatory implications of these contaminants. The methodology utilized for assessing the toxicity of mixtures of polychlorinated dibenzodioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs), includes compounds commonly identified as congeners. The URS Team has previously worked on dioxins-contaminated sites in the South Florida area and has successfully worked with FDEP for proper applicability of these standards as they apply to SCTLs and GCTLs. One of these sites is located at the former Lindsley Lumber site at I-95 and Griffin Road. URS has recently worked with similar issues in Miami-Dade County at Douglas Park and the former Coral Gable incinerator site.

Dr. James Garrison is our Principal Toxicologist with specialized expertise in the toxicology of a variety of environmental contaminants, including petroleum products, metals, PCBs, VOCs, pesticides, PAHs, dioxins and amines, as well as munitions compounds (HMX, RDX, nitroglycerin, tetryl, TNT, TNB, DNT, amino DNTs, and picric acid) and chemical warfare agents (nerve gas and mustard gas). Dr. Garrison has performed human health and ecological risk assessments for both RCRA and CERCLA projects. He will identify and potential human health issues associated with redevelopment of the former landfill site.

Redevelopment Issues – URS Team has the Knowledge and Experience using “RBCA”

Our technical approach to address any redevelopment issues will start with a **geophysical survey**. The figure shown below shows one of the EM51 inphase data that was prepared by our specialty sub-consultant. URS will update this survey using the services of GeoView, Inc.



URS Geophysical Survey from Initial Site Investigation Activities

Once the geophysical survey results are in, we will commence drilling activities utilizing the services of Enviro Drill, Inc., a URS subcontractor. The location of the borings will be based on a grid as shown in the figure and target the areas identified by different colors. The geotechnical report will clearly identify any structural or construction issues for redeveloping the site. We are anticipating the geotechnical borings will be at least to a depth of 30 feet below land surface which we believe is the bottom of the former borrow pit where the incinerator ash and other solid waste debris was disposed of.

Chapter 62-780 FAC provides the flexibility to remediate a contaminated site using a Risk Based Corrective Action (“RBCA”) approach. The URS Team has successfully implemented this strategy for “closure” of contaminated sites. The URS Team will work with the City to implement a RBCA approach to receive Site Rehabilitation Completion Order or conditional No Further Action letter depending on proposed land use (i.e. commercial/industrial vs. residential). Since FDEP’s Soil Cleanup Target Levels (SCTLs) and Groundwater Cleanup Target Levels (GCTLs) based on commercial/industrial are not as stringent as residential CTLs, the URS Team will tailor our redevelopment alternatives based on the results of the

geotechnical investigation as well as the environmental requirements.

The URS Team understands the requirements of Chapter 62-780, FAC, as they apply to site assessments. The modernization of the collection, analysis, interpretation, and management of data to support decisions about site assessment and remediation rests on the **“triad” approach**. Such an approach incorporates the elements of systematic planning, a dynamic work plan, and on-site analytical tools which will be used by the URS Team to meet the project goals. By taking advantage of real-time results and data assessment to guide additional sampling, the URS Team will be able to minimize mobilization to reach decision points. Systematic planning is a common-sense approach to assuring that the level of detail in planning matches the intended use of the data being collected. A dynamic work plan approach relies on real-time data to reach decision points. Implementation of the dynamic work plan relies on and is driven by critical project decisions needed to reach closure. **Dynamic work plans are made possible by on-site analytical tools that the URS Team will utilize.**

An integrated approach for the assessment of the landfill has been developed that incorporates the use of surface geophysical measurements. The initial assessment of the landfill will be completed using **non-invasive surface geophysical techniques that allow measurements of a particular physical, chemical or electrical property of the subsurface without drilling or excavation**. Because these measurements are non-invasive, a much higher density of data can be acquired cost-effectively and safely. This increased spatial sampling of the subsurface will provide insight so that subsequent drilling, excavation and sampling can be done as efficiently as possible, minimizing



URS drilling crew in operation at the former Hollywood Incinerator Ash Landfill site on 1600 South Park Road

guess-work, assumptions and unknowns. This approach has been used by the URS Team at landfills and hazardous waste site investigations since the early 1980's.

Geotechnical Considerations for Landfill Redevelopment

Landfill debris poses significant issues to the geotechnical design of building foundations and infrastructure. Buildings can be supported on Augered Cast-In-Place piles and Dynamic Compaction used to densify the landfill debris in infrastructure and roadway easements.

Based on the findings of the geotechnical investigation, URS will provide detailed recommendations for deep foundation designs for structures consisting of Augered Cast-In-Place (ACIP) piling and Drilled Shafts including vertical and lateral load capacities for various sizes and depths of foundations. URS will provide detailed recommendations for ground improvement options in landfilled areas consisting of VibroFloatation Compaction and VibroFloatation Stone Column Replacement, Dynamic Compaction and Surcharging

Development of Remediation and Redevelopment Costs for Various Alternatives

Once the geotechnical and environmental constraints have been established based on the field work described above, URS will develop a list of various remediation and redevelopment alternatives for the site.

Based on our previous assessments of the former landfill site, we believe these are a few of the alternatives that will be available with their own pros and cons:

- No redevelopment – maintain North Parcel as Staging Area for Hurricane Debris
 - Cost to develop and implement Landfill Closure Plan
 - Cost to remediate areas with contamination
 - Cost to operate and maintain landfill
 - No Tax Revenues
- Passive Park or Active Park
 - Cost to develop, operate and maintain
 - No Tax Revenues
 - Attract people for surrounding communities (mobile homes, for example)

- Recreational/Entertainment (Movie Theater, Community Center with arts and crafts, Library, Performing Arts Center)
 - No cost to City to develop, operate or maintain
 - Tax revenues
 - Public benefits
- Commercial business/Retail/Medical Offices/ Targeted businesses
 - No cost to City to develop, operate or maintain
 - Tax revenues
 - Public benefits
- Residential (Senior citizen housing, attainable housing, mixed workforce housing for retirement community)
 - No cost to City to develop, operate or maintain
 - Tax revenues
 - Public benefits

These are only conceptual ideas and the geotechnical investigation described in the earlier sections may rule out one or more of these alternatives or even limit these uses to a few parcels on the property. For that reason, URS believes participation by stakeholders is very important for the success of the project.

URS uses various tools and methodologies for estimating remediation and redevelopment costs for projects. These include:

1. RS Means Online and Cost Books
2. Remedial Action Cost Engineering Requirements (RACER™) System – A PC-based system originally developed in 1992 by the U.S. Air Force. The system uses a patented methodology for generating location-specific program cost estimates.
3. A Guide to Developing and Documenting Cost Estimates during the Feasibility Study, USEPA Publication EPA 540-R-00-002, July 2000.
4. URS Database – developed for our internal use based on estimates received from contractors

The engineering costs developed for various alternatives will be used to complete a Sustainable Return on Investment Analysis (sROI) by our Senior Economist.

Sustainable Return on Investment Analysis

A cost-benefit analysis of sustainable investment strategies can provide design teams and decision-makers with a more complete picture of the “triple bottom line” – the project’s economic, environmental, and social value. Many benefits that are largely non-financial (improved safety, ecosystem services, reduced CO2 emissions) can be converted into monetary terms along with the more traditional financial benefits (energy saved, water conserved).

URS has developed a sROI process that includes:

- Step 1: Define objectives and project context – size of project, source of funding, timeline, etc.
- Step 2: Identify measures – which strategies should be considered to meet project objectives 1
- Step 3: Establish baseline and evaluation criteria - potential economic, social and environmental impacts for each strategy, and boundaries for the life-cycle analysis
- Step 4: Quantify Inputs - incremental impacts monetized based on economic methods, with the sROI workshop held to reach consensus on the proper values
- Step 5: Develop sROI Model – inputs incorporated into the model, which is then run
- Step 6: Generate Results – risk and uncertainty analysis, and s-curves

URS will work with the City and the stakeholders to quantify the inputs with an sROI workshop to reach consensus on the proper values.

Government Incentives and Grants

Brownfield Services

URS is a nationally recognized leader in planning and implementation of redevelopment projects. We have built a reputation with municipalities and industry by participating in the successful redevelopment of hundreds of brownfield properties.

The designation of the former landfill at 1600 South Park Road as a brownfields under the State of Florida’s program makes it eligible for many state, local and federal financial assistance. URS Brownfields’ experts will assist the City in obtaining grants from FDEP and USEPA Region 4. These grants are very competitive and could be used for further assessment or limited remediation work.

We assist public entities, property owners, and private developers by addressing the potential opportunities represented by industrial brownfields. Our services include program management, environmental assessment and remediation, infrastructure assessment and planning, market analysis, site and master planning, funding strategies (including the use of Housing and Urban Development (HUD) Section 108 Loan Guarantees), request for proposal (RFP) process, coordination of community involvement, construction oversight, and business attraction strategies and end user targeting. URS tailors our approach to redevelopment and the combination of these services to meet each individual client and project’s needs.

Leadership in Government Incentives

URS creates public-private financing strategies for many of our projects. We have large-scale experience in government incentives, including tax increment financing (TIF), property tax incentives, special service areas, business improvement districts, land write-downs and other tax credits. We have consulted on issues relating to projection of tax increment used for municipal financing, establishment of a Redevelopment Project Area, quantification of the economic feasibility and impact, and structuring of incentives packages.

3.0 Not Applicable

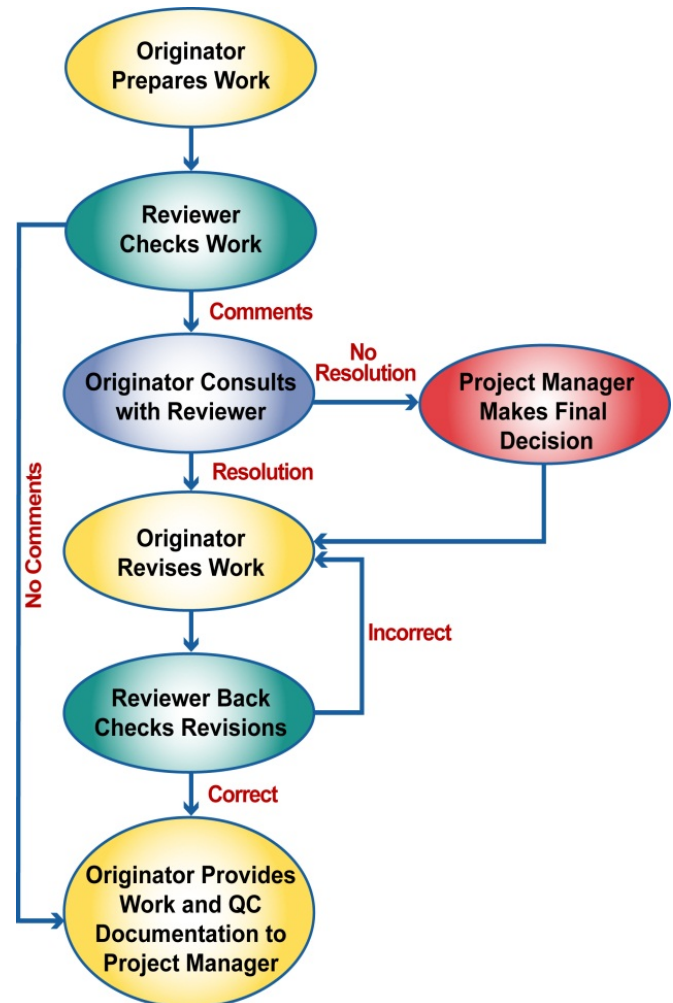
As indicated by the solicitation, Section 3 is not applicable to this response.

4.0 Quality Control

URS understands the importance of Quality Control (QC) in all its professional endeavors. The attention given to this process achieves several objectives; notably, that our work products comply with the quality requirements of the City, all work meets a high standard of technical quality for project deliverables, and the occurrence of potential errors and/or omissions is minimized. A major component of QC is the performance of reviews at appropriate times throughout a project to evaluate the adequacy of materials, documentation, processes, procedures, training, guidance, and staff required in the execution of the task. Internal procedures require the Project Manager to prepare a Quality Control Plan for each assignment. The Plan addresses the following three key areas:

- Project Team Responsibilities** - Each member of the project team is required to comply with the QC procedures. At specific milestones identified at the beginning of each assignment, QC reviewers will be required to document the review comments, sign-off on completion of the deliverable(s), and place a record of the review in the project's quality review records file. Each member of the project team is encouraged and expected to inquire of the Project Manager regarding any tasks that may be unclear or require additional clarification. The Contract Manager, in turn, is to keep the designated QC reviewers for the project apprised of the project progress and is to make sure that all deliverables and work products receive timely reviews by the QC reviewer.
- Project Reviews** - Prior to submittal of major deliverables, the QA reviewer will conduct an independent review of the deliverable. This is in addition to routine QC reviews that are conducted throughout the design process. Work that does not meet internal quality standards will be noted and changed accordingly. Subsequent to the reviews, the Project Manager will prepare documentation recording the basis of the reviews, the specific items that were reviewed, the findings of the review, and any follow-up required.
- Checking Procedure** - Throughout the quality review process, all reviews will be documented with either the reviewer's signature or initials to indicate that the quality review was completed. If no changes are required, then it will be so noted. If changes are needed to meet technical standards, then a punch list of the changes will be created. After the revisions

are made, a final check will be conducted to confirm that all of the requested changes were implemented. This procedure is documented and placed in the quality review records file.



5.0 Staff Qualifications and Project Team

We have assembled a talented, experienced team of professionals based on their individual expertise and local experience. The team we propose is comprised of experts who have worked together many times on other similar assignments. Our Project Manager, Vik Kamath is a

Florida-registered professional engineer and recently completed a site assessment and redevelopment alternative study for the City of Hollywood incinerator ash dump. The following is an introduction to our team.

Key Team Personnel Project Role	Qualifications
Vivek “Vik” Kamath, PE Project Manager	Mr. Kamath is a Professional Engineer with the State of Florida with over 35 years of experience in the environmental engineering field. He will serve as the primary client liaison and work closely with the City to accomplish the requested scope of work. Prior to joining URS, Mr. Kamath served as the Program Administrator for Waste Management at the Florida Department of Environmental Protection (FDEP) office in West Palm Beach. Vik is experienced in chemical/hazardous waste assessment and remediation; petroleum storage tank facilities; solid waste, waste-to-energy plants; landfills, and wastewater treatment and disposal facilities. Having worked for the State of Florida for over 20 years as an engineer and administrator, Mr. Kamath has a thorough understanding of state and federal regulations and serves as an expert regulatory technical advisor for private and municipal clients in Palm Beach, Broward, Miami-Dade, and Monroe Counties.
Robert B. Wallace, PE Technical Advisor	Mr. Wallace has over 40 years of experience and provides project supervision and consultation in civil and geotechnical engineering, especially for containment systems incorporating soils and geosynthetics lining systems. His expertise includes project management and lead design for detailed planning, permitting, design, specification, construction, operation, and closure of a wide variety of engineered facilities. He will provide advisory and oversight for the project.
Daniel J. Levy, PG Principal-in-Charge	Mr. Levy has over 28 years of experience in the environmental industry and specializes in environmental remediation technologies. He is a registered professional Geologist with a strong working knowledge of the State and Federal regulations, including; Compensation and Liability Act/Superfund Amendments and Reauthorization Act (CERCLA/SARA); Resource, Conservation, Recovery Act/Hazardous and Solid Waste Amendments (RCRA/HSWA); Toxic Substance Control Act (TSCA), and Chapter 62-780, FAC requirements. Mr. Levy has managed and directed over 300 remedial projects (over 150 petroleum sites in Florida), ranging from site assessments to implementation large-scale, complex, multi-phase treatment systems and has served as the technical director several complex petroleum cleanups. His experience includes the research and development of alternative treatment technologies and the design of innovative remediation systems. Mr. Levy is a Vice President with the Company and has signing authority.
Paula Sessions, PG QA/QC Officer	Ms. Sessions is a Florida-registered Professional Geologist and a URS Certified Project Manager with over 24 years of experience in the environmental field. Technical experience includes management of site assessments, tank closure assessments, source removals, methane gas assessments, remedial action design and implementation, and operation and maintenance of long-term remediation systems. She will serve as the QA/QC officer and will be responsible for overseeing the Quality Control Plan has been prepared in accordance with URS policies and that project review procedures are being followed.

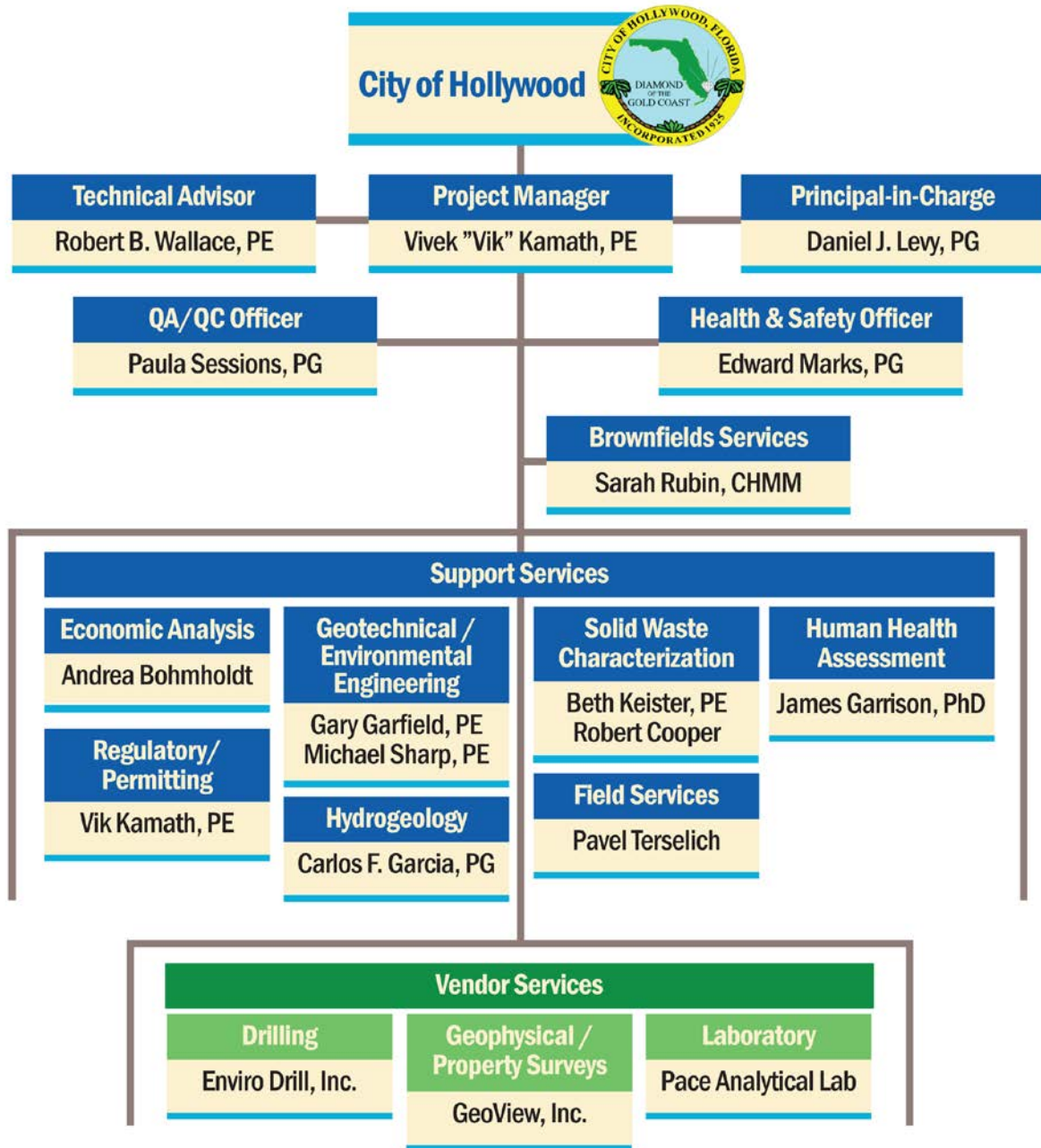
Key Team Personnel Project Role	Qualifications
Edward Marks, PG Health & Safety Officer	Mr. Marks has over 12 years of experience conducting environmental and ecological investigations for a wide variety of public and private sector projects. Mr. Marks has provided safety oversight and enforcement of environmental compliance regulations for many construction and mitigation projects and is the project team leader and Dive Safety Officer for all underwater surveys conducted by the URS Miami Office. Mr. Marks has established a strong reputation for successfully implementing projects in very remote and difficult environments. Mr. Marks has extensive field experience and competence and is experienced at working in extremely isolated and demanding environments. Mr. Marks has been designated as a Site Safety officer since his career began with the Florida Department of Environmental Protection in 2001.
Sarah Rubin, CHMM Brownfields Services	Ms. Rubin is a Certified Hazardous Materials Manager (CHMM) with over 25 years of experience. She has extensive experience in Brownfields, coordinating an approach to environmental issues at sites with the vision towards redevelopment. Ms. Rubin has been involved in planning and project support for multiple redevelopment projects and programs that involve completion of environmental assessment and planning activities. Ms. Rubin has assisted public entities, property owners, and private developers by addressing the potential opportunities represented by brownfields. She has worked with clients to facilitate redevelopment at properties within the context of state and federal voluntary and regulatory programs and risk-based approaches to redevelopment of Brownfield properties.
Andrea Bohmholdt Economic Analysis	Ms. Bohmholdt, with over 13 years of experience, has a Master's Degree in Applied Economics, specializing in Natural Resource and Environmental Economics and has been successfully performing economic analyses for government agencies, private and non-profit organizations. Her capabilities include statistics, benefit-cost analyses, economic impact assessments, linear programming, econometric modeling, life-cycle cost analyses, cost effectiveness and incremental cost analyses, forecasting, recreation assessments, and risk and uncertainty analyses.
Gary Garfield, PE Environmental Engineering	Mr. Garfield has over 37 years of experience and provides management and consulting services relating to landfill soil and groundwater characterization, landfill gas recovery system design and construction, off-site gas migration, capping, operation and maintenance, and landfill forensics.
Michael Sharp, PE Geotechnical Engineering	Mr. Sharp has over 30 years of experience in project management, foundation design and testing, and preparation of construction recommendations for roadways, major highway bridges and related earthwork, buildings and storage tanks, wastewater treatment plants, pipelines, and earthen dams. He has a masters degree in civil engineering and his areas of expertise and foundation engineering and dynamic pile testing.
Beth Keister, PE Solid Waste Characterization	Beth A. Keister is a Senior Project Manager with 31 years of experience. She is responsible for management and engineering design of solid waste and water resources-related projects in both the public and private sectors. She has provided project management and civil engineering professional services for projects in the United States, its Territories, Europe, and Southeast Asia. Ms. Keister has specialized expertise in Project Management and Quality Management, including landfill liner Construction Quality Assurance. She has taken several projects through all phases from investigation, planning and permitting, to design and construction oversight.

Key Team Personnel Project Role	Qualifications
Robert Cooper Solid Waste Characterization	Mr. Cooper has approximately 29 years of experience in design, construction, and environmental engineering and planning. His experience includes planning, design, value engineering, and construction of communication facilities, municipal utilities and infrastructure. He also consults on projects involving permitting, audits, investigations and remediation projects dealing with hazardous and non-hazardous wastes, value engineering, feasibility studies, and policy development and staff training related to risk management programs in Canada, the United States, the Caribbean Basin, and internationally.
James Garrison, PhD Human Health Assessment	Dr. Garrison has over 38 years of experience and is a Consultant/Principal Toxicologist with specialized expertise in the toxicology of a variety of environmental contaminants, including petroleum products, metals, PCBs, VOCs, pesticides, PAHs, dioxins and amines, as well as munitions compounds (HMX, RDX, nitroglycerin, tetryl, TNT, TNB, DNT, amino DNTs, and picric acid) and chemical warfare agents (nerve gas and mustard gas). Dr. Garrison has performed human health and ecological risk assessments for both RCRA and CERCLA projects. In addition to his expertise in toxicology, Dr. Garrison has experience in wetlands biology, having performed his masters research in salt marsh ecology. In addition to providing technical input to risk assessment projects, Dr. Garrison has negotiation experience with both state and federal agencies, and has provided litigation support for several projects. Dr. Garrison has "hands on" experience performing risk work in all 10 U.S. EPA regions.
Carlos F. Garcia, PG Hydrogeology	Mr. Garcia is a Florida-registered Professional Geologist with over 33 years of experience in the environmental industry. His expertise includes environmental program management; preparation of Phase I and Phase II site assessments; soil and groundwater petroleum hydrocarbon contamination assessments; hazardous management; remedial evaluations; expert witness testimony on groundwater contamination; industrial and commercial real estate assessments; environmental impacts and permitting issues; natural resources evaluations; geologic investigations and hydrogeologic assessments; and Class V stormwater injection wells. He has managed and directed over 150 environmental assessment projects.
Pavel Terselich Field Services	Mr. Terselich is a Senior Environmental Scientist with over 14 years of practical experience performing soil and groundwater contamination assessment, monitoring, and remediation projects using a phased Risk Based Corrective Action approach providing cost effective site management and remediation while protecting human health and the environment. Experience in both conducting field operations and writing technical reports for various types (Petroleum, Arsenic, PAHs) of contaminated high-profile sites in South Florida under strict regulatory controls. Fully bilingual in English and Spanish, comfortable working in multi-cultural settings creating excellent team relations and communicating clearly and frequently with regulatory agencies, consultants, and clients.

Organizational Chart and Resumes

URS has extensive experience in assigning team members with skill sets that are best suited to specific assignments. The size and depth of our team allows us to work either together or independently on multiple tasks at one time. We wish to emphasize that the talented, experienced team we propose to commit to your project can address all aspects of tasks you may assign to us. We are very

enthusiastic about this team and our ability to perform to your satisfaction. We have carefully selected these professionals based on their individual expertise and local experience. Our proposed team organizational chart is shown on the next page followed by resumes of each team member.



Vivek “Vik” Kamath, PE

Senior Project Manager/Engineer



Areas of Expertise

Project Management, State and Federal Regulations; State and Federal Grants; Quality Management Principles; Solid and Hazardous Waste Assessment and Remediation; Water / Wastewater; Brownfields Program; Risk Assessment; Water and Wastewater Treatment

Years of Experience

With URS: 11 | With Others: 23

Education

MS/1980/Thermal & Environmental Engineering / Southern Illinois University, Carbondale

BS/1976/Chemical Engineering/Indian Institute of Technology/ Bombay, India

Registration/Certification

1990/Professional Engineer/ Florida No. 42618

Mr. Kamath is a senior project engineer with over 34 years of experience in the environmental and chemical engineering field. Prior to joining URS, Mr. Kamath served as the Program Administrator for Waste Management at the Florida Department of Environmental Protection (FDEP) office in West Palm Beach. Vik is experienced in chemical/hazardous waste assessment and remediation; petroleum storage tank facilities; solid waste, waste-to-energy plants; landfills, and wastewater treatment and disposal facilities. Having worked for the State of Florida for over 20 years as an engineer and administrator, Mr. Kamath has a thorough understanding of state and federal regulations and serves as an expert regulatory technical advisor for private and municipal clients in Palm Beach, Broward, Miami-Dade, and Monroe Counties. Specific examples of his experience are described below.

City of Hollywood Incinerator Ash Dump, Hollywood, Florida (2007-2012): Senior Project Manager directing site assessment and re-development alternatives for a former landfill. Contaminants on the property include metals, petroleum products and dioxins. The redevelopment strategy requires extensive knowledge of regulatory requirements. The Site, currently designated as a Brownfields, will be developed using a Risk- Based Corrective Action approach. In 2012, URS completed an Analysis of Brownfields Cleanup Alternatives (ABCA) report for the City to seek funding under the Brownfields program.

City of Miami, Douglas Park, Miami, Florida (2014): Senior Project Manager and Engineer directing environmental site assessment, geotechnical investigation, solid waste delineation, and groundwater assessment of a former municipal waste incinerator ash dump. The scope of work included installation of 30 foot soil borings and completing the characterization of soils, and solid waste buried under the park. The park is currently

closed and URS will be working with the City to complete and implement a Corrective Action Plan.

Senior Environmental Permitting and Regulatory Support Engineer, Biscayne Landing, LLC, City of North Miami (2008 – 2010): Senior Engineer directing environmental monitoring of restoration project for impacted mangroves along the eastern boundary of the former Munisport Landfill that is currently being redeveloped as a multi-use development with plans for residential and commercial facilities

Immokalee Landfill #1 (IML #1), Eustis Avenue, Immokalee, Florida (2011-2012): Completed a geotechnical investigation of an old landfill for the Collier County Solid Waste Department that consisted of drilling test borings to the bottom of the landfill. The main purpose of the investigation was to characterize the solid waste disposed of in the landfill to complete a horizontal and vertical profile of the footprint for reclaiming the landfill. The Scope of Work was completed well within the time frames and budget provided by the County.

Senior Engineer, City of Coral Gables Incinerator Demolition Project (2005- current): Developed work plan and final report after the completion of the project. The plan include provide a detailed environmental monitoring program in and around the work site. Provide regulatory and permitting assistance to the City of Coral Gables during the project. The City is currently working with URS for developing a strategy for possibly remediating and providing a beneficial reuse for the site

Miami-Dade County Park and Recreation Department: Senior Project Engineer for three (3) landfill redevelopment projects (2009 - current): Ives Estates Park, Westwind Lakes Park and Lakes-by-the-Bay. These projects include providing engineering services for landfill gas management and groundwater remediation of ammonia plume at Ives Estates, landfill gas management at Westwind Lakes, and providing technical and regulatory assistance for “closure” of an old landfill that is being redeveloped as Lakes-by-the-bay Park. Activities include designing landfill gas mitigation measures, and negotiating a Declaration of Restrictive Covenant with DERM using a Risk Based Corrective Action approach.

Miami-Dade County Aviation Department West End Cargo Area Groundwater Remediation Project Design, Miami International Airport, Miami, Florida (2011-2013): Senior Project Engineer directing site assessment and remediation design of the WECA pond source removal. Project involved assessment of chlorinated solvents and remedial design, with chemical oxidation, for remediation of solvent contaminated groundwater.

Pratt & Whitney/United Technologies Corporation, Palm Beach County, Florida (2006 - current): Senior Project Engineer providing technical and regulatory assistance for permitting and remediation projects under the Resource Conservation and Recovery Act (RCRA) and industrial treatment processes. Activities include overseeing site assessment and remediation activities at several contaminated areas on the property, and design/construct an industrial wastewater pre-treatment system. This project involves extensive regulatory oversight and coordination with the Florida Department of Environmental Protection (FDEP) including negotiating a Declaration of Restrictive Covenant for closure of contaminated areas using a Risk Based Corrective Action approach.

Technical and Regulatory Support, Contaminated Site, Inverness, Florida (2009): Senior Engineer providing technical and regulatory support for contaminated site that was redeveloped by a big-box retailer under Florida's Brownfields Program.

Florida Department of Environmental Protection, Southeast District Office, West Palm Beach, Florida (1983-2003): Served as Waste Management Administrator for the regional office with a staff of 30 environmental professionals. Responsibilities included regulatory oversight of solid waste, hazardous waste, petroleum storage tanks and waste cleanup sites. Services included permitting, compliance and enforcement activities, implementing groundwater monitoring plans, hazardous waste facilities, and assessment and remediation of other waste management facilities in accordance with Florida Statutes and regulations. Mr. Kamath was also responsible for regional coordination of CERCLA/Superfund sites located in the South Florida area.

City of Hollywood Incinerator Ash Dump, Hollywood, Florida (2007-2009): Senior Project Manager directing site assessment and re-development alternatives for a former landfill. Contaminants on the property include metals, petroleum products and dioxins. The redevelopment strategy requires extensive knowledge of regulatory requirements. The Site will be developed using a Risk- Based Corrective Action approach.

Project Manager, Broward County Solid Waste and Recycling Services, Broward County, Florida (2010 – Current): Provide geological services for the review and reporting of groundwater data collected on a semi-annual basis at two landfills as part of FDEP permit requirements. Services include reviewing electronic data deliverables (EDDs) through the FDEP Automated Data Processing Tool (ADaPT) application, generating a Semi-Annual Monitoring Reports in accordance with Section 62-701.510(9)(a) of the Florida Administrative Code (F.A.C.). This report summarizes all hydrogeological water quality parameters and analytical results, sampling and analytical methods.

Senior Project Manager, Collier County Solid Waste Department, Naples, Collier County, Florida, (2007 – Present): Manage solid waste consulting services contract with Collier County. Provide a full suite of services including design, permitting and regulatory support for Collier County for expansion of solid waste management facilities. Provided design and construction management support for landfill mining/reclamation of old solid waste disposal cells. Currently, working on feasibility study for mining of closed Immokalee Landfill. Assisted county for permitting oversight of landfill gas to energy project in an environmentally sensitive Cypress Preserve area. Other projects include a feasibility study for management of co-disposal of biosolids with municipal solid waste, a feasibility study for deep injection well disposal of landfill leachate, and feasibility study for conversion of fleet to CNG.

Site Supervisor, Former Homestead Air Force Base, CERCLA Investigations (2010 – Current), South Central Performance-Based Remediation Contract: Mr. Kamath is currently the Site Supervisor on the FPM/URS Team overseeing all field assessment and remediation work at 8 Operable Units at the Former Homestead AFB in Florida. This is a multi-year contract that includes developing Quality Assurance Project Plans, directing field work and remediation activities with the ultimate goal of achieving site closure. Contaminants of concern include, arsenic, petroleum products and chlorinated solvents.

Senior Engineer, Proposed Western Landfill, Palm Beach County Solid Waste Authority (2007): Provide permitting assistance to SWA under a sub-contracting agreement with CDM; assignments include reviewing baseline assessment and monitoring plan for proposed landfill site, reviewing hydrologic and groundwater models for compliance with permitting requirements for a new landfill.

Senior Project Engineer, APAC - Medley Plant, Miami-Dade County (2003): Development of Stormwater Pollution Prevention Plan as part of NPDES permitting requirements. Activities included performing detailed site visit to review and evaluate current management practices for various waste streams and provide recommendations for making changes.

Senior Project Manager, Miami-Dade County Aviation Department Southeast Gate Scrubber Project, Miami International Airport, Miami, Florida (2003-2005): Direct site assessment of petroleum contaminated area and propose strategy for remediation.. Activities involved installation of groundwater monitoring wells and soil borings to determine nature and extent of contamination in the soils and groundwater.

Senior Project Engineer, Redevelopment Project, Residential Community Developer (Confidential Client), Fort Myers, Florida (2004 - 2005): Direct site assessment and remediation strategy for a property that is currently an industrial



site but is being proposed for redevelopment to a residential community. The project involves delineation of contaminated areas and developing risk management strategies include soil removal to make the site suitable for residential use.

Holiday Diver, Dania Beach, Florida (2003-2004): Senior Project Engineer overseeing the completion of Phase I and Phase II Environmental Site Assessments of a site contaminated with dioxins from a former wood-treating facility on the property. Activities included negotiating a restrictive covenant for the property owner to redevelop the Site for commercial/industrial use.

Additional Experience Includes:

- Miami International Airport Fire Well Capacity Testing (2013)
- Miami International Airport West End Cargo Building 2064 Assessment and Monitoring (2013-14)
- Chapman Field Groundwater Sampling and Ammonia Background Study (2009-2010)
- North Dade Landfill Gas Collection System
- Former Wings Aviation (MDAD) Remediation Costs Review submitted by Aeroterm (2012-2013)

Licensee Details

Licensee Information

Name: **KAMATH, VIVEK SANJIV (Primary Name)**
(DBA Name)

Main Address: **9554 NEWPORT ROAD**
BOCA RATON Florida 334342849

County: **PALM BEACH**

License Mailing:

LicenseLocation:

License Information

License Type: **Professional Engineer**

Rank: **Prof Engineer**

License Number: **42618**

Status: **Current,Active**

Licensure Date: **02/22/1990**

Expires: **02/28/2015**

Special Qualifications	Qualification Effective

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Areas of Expertise

Landfill Design and Solid Waste Management
Containment Systems Design and Construction
Construction Management and Construction Quality Assurance
Forensic Engineering and Expert Witness

Years of Experience

With URS: 17 | With Other Firms: 23

Education

BEng/Civil/1972/Carleton University

MEng/Geotechnical/1974/

University of Ottawa

MBA/Business/1982/

University of Alberta

Registration/Certification

1975/P.Eng./Alberta/19737

1987/P.E./Florida/67827

1988/P.E./Arizona/22007

1988/P.E./California/43588

1994/P.E./Washington/31613

1999/P.E./Hawaii/9724

2010/P.E./Guam/1498

Mr. Wallace provides project supervision and consultation in civil and geotechnical engineering, especially for containment systems incorporating soils and geosynthetics lining systems. His expertise includes project management and lead design for detailed planning, permitting, design, specification, construction, operation, and closure of a wide variety of engineered facilities.

Landfill Design

Project Manager, Principal Designer, and Engineer of Record, Cedar Hills Regional Landfill, Area 5 Phased Closure, Maple Valley, WA, King County Solid Waste Division, 2001-2007, \$3 million design: This six-year design project involved phased closure of the active cell at the landfill, with construction in each of 2001 through 2007. Detailed design of the leachate collection and treatment system, soils management for daily cover and closure, landfill gas collection and transmission, and waste operations were included in the scope of work. Storm water management and contaminated storm water management were addressed, in conjunction with the in-place leachate systems at the site. Close coordination with King County engineering and operations personnel was provided throughout design, in cooperation with design personnel of the Area 6 development and Construction Management personnel. Phase IV completed construction in 2007.

Principal Designer and Engineer of Record, Democell Closure, Woodburn, OR, Marion County Department of Solid Waste, 1997-1998: Services were provided for the closure system for a construction/demolition landfill constructed on top of an old municipal solid waste trench fill, at the North Marion

County Disposal Facility, in Woodburn, Oregon. The project consisted of the design of a landfill cap for the 17-acre C&D cell, with cap boundaries extended to include approximately four acres of the underlying trench fill. Significant surface water problems existed at the site, which required gravity drainage of storm water to a nearby creek. In addition, landfill gas had been a recurrent problem at the site, resulting previously in the explosion and destruction by fire of the scale house at the facility. A landfill gas monitoring/detection system was designed and installed at the perimeter of the site to warn of off-site migration of LFG. The closure system for the landfill included an active LFG collection and removal system to meet current regulatory requirements, with provision for potential future conversion to a gas-to-energy system. The design of the facility was completed in 1997 and early 1998. Construction was completed in the summer of 1998.

Project Manager, Principal Designer, and Engineer of Record, Cement Kiln Dust Pile Closure, Metaline Falls, WA, Lehigh Portland Cement Company, 1995-1996: Design of the closure of a 7.2-acre cement kiln dust (CKD) pile for the Lehigh Portland Cement Company, in Metaline Falls, Washington was completed in 1995. The closure includes a geosynthetic clay liner (GCL) as the primary barrier. Veneer reinforcement of the overlying protective cover soils is provided by a reinforcement geotextile. Additional work components include storm water management issues, wetlands protection, slope and cover stability, as well as monitoring and maintenance provisions of the Post Closure Care and Maintenance Plan. Construction management, construction quality assurance and construction quality control were provided for implementation of the closure, which was completed during 1996.

Design Engineer, Evaluation of Design Alternatives and Preliminary Cost Estimation, PCB-contaminated Soils, Confidential Client, Central California, 2013-2014: The work includes evaluation of preliminary alternatives for the closure of a PCB-contaminated site. Further work in 2014 will include a Feasibility Study to assess closure alternatives, followed by detailed design and construction services of the selected closure alternative. Construction will likely occur in 2015.

Lead Designer and Engineer of Record, Hazardous Waste Landfill, Former McClellan AFB Focused Strategic Sites Performance-based Remediation, Sacramento, CA, Air Force Civil Engineer Center (AFCEC), 2012 - 2019: The work includes the design, permitting, construction, operation, and closure of a 360,000 cubic yard Consolidation Unit (CU) (hazardous waste landfill) within an aggressive delivery schedule. The landfill was designed, permitted, and constructed and began operations in 2013. The CU will be operated until 2018, and closed in 2019.

Lead Designer and Engineer of Record, Combined Cap Closure, Former McClellan AFB Focused Strategic Sites



Performance-based Remediation, Sacramento, CA, Air Force Civil Engineer Center (AFCEC), 2013: A landfill cap, 8.4 acres in size, was designed, permitted, and constructed in 2013. The cap contains four Confirmed Site (CS) landfill trenches and Area of Concern (AOC) 313. The contained sites included predominantly radioactive-contaminated (radium-226) soils, along with some chemical contaminants.

Lead Designer and Engineer of Record, Potential Release Location (PRL) 008 Closure, Former McClellan AFB Focused Strategic Sites Performance-based Remediation, Sacramento, CA, Air Force Civil Engineer Center (AFCEC), 2013: A landfill cap, about 1.9 acres in size, was designed and permitted for 2015 construction. The contained sites included predominantly radioactive-contaminated (radium-226) soils, along with some chemical contaminants.

Technical Reviewer and CQA Oversight, Site 5 Landfill, MCAS Miramar, San Diego, CA, Noreas, Inc., 2012: Technical reviewer and CQA certification for the design and construction of the closure of the Site 5 landfill at the Marine Corps Air Station Miramar, in San Diego, CA, for NAVFAC Southwest. Services include providing an Independent Technical Review of the detailed design of the capping system, and Construction Quality Assurance (CQA) audit of construction. Work performed as a sole proprietor.

Technical Consultant, Closure of the Ordot Dump, Guam, GeoLogic Associates, 2012-2013: Technical Consultant and Technical Reviewer for the design of the closure of the Ordot Dump, on Guam. Provided services through a contract with Geo-Logic Associates as a sub-consultant to Brown and Caldwell, assisting with many aspects of closure design, including: capping system, leachate management system, landfill gas management system, and storm water management system. Work performed as a sole proprietor.

Lead Designer and Engineer of Record, Expansion of the Andersen AFB Landfill, Guam, NAVFAC Marianas, 2010-2011, \$350,000 design: Design manager and engineer of record for the design of a municipal solid waste landfill expansion at Andersen Air Force Base, on Guam. URS provided design services on a Design/Build assignment with RMA Land of Anaheim, CA. A small (1.2 acre) addition to the existing landfill was designed to provide airspace to extend the facility life. The work included design of a double composite lining system, and drainage facilities for the landfill. Services were also provided for the preparation of permit documentation for the Solid Waste Permit and the Title V Facility Air Permit for the landfill expansion. The facility was not constructed due to opening of new Layon Landfill on island. NAVFAC awarded an "Outstanding" evaluation for the design. Work performed as a sole proprietor.

Project Manager, Principal Designer, and Engineer of Record, Ordot Dump Closure, Guam, Duenas & Associates for Guam Department of Public Works, 2005-2008, \$1.3 million design: Receiving waste continuously since World War II, Ordot has been a source of river and contiguous area contamination for over 50 years. Through a consent decree with the USEPA, Guam DPW is closing the 55-acre facility. URS is providing investigative, planning, detailed design, and construction management for the dump, which includes a 150-foot high side slope with slopes in excess of 1 horizontal to 1 vertical. The capping system will use innovative design to facilitate the closure of the dump without excessive re-grading. Leachate management systems and storm water management systems will be designed to ensure that ongoing contamination of the Lofit River. Detailed design was completed in 2007.

Project Manager, Principal Designer, and Engineer of Record, Central Maui Sanitary Landfill, for Phases I and II Closure, Puunene, Maui, HI, County of Maui Solid Waste Department, 2005: The 42-acre closure addressed all aspects of leachate, landfill gas, and storm water management. In addition, final filling plans were produced to allow extension of the life of the landfill. Design was completed in 2005. The design addressed provisions for the future use of the landfill for facilities associated with the landfill's composting operations, in particular providing design criteria and measures to ensure proper functioning of the closure system. Landfill gas potential was evaluated for future landfill gas-to-energy generation at the landfill.

Project Manager, Principal Designer, and Engineer of Record, Central Maui Sanitary Landfill, Phase IV-B Development, Puunene, Maui, HI, County of Maui Solid Waste Department, 2005: The design of this 10-acre cell included incorporation of a bottom-lining system into a vertical quarry wall along one side, up to 50 feet high. Leachate management provisions included conveyance and discharge of leachate for several up-gradient future cells.

Task Manager and Technical Reviewer, Central Peninsula Landfill Expansion, Kenai Borough, AK, Kenai Borough Solid Waste Department, 2002-2004: Elements of the design completed for the landfill included the cell design grading, leachate collection and removal system, pump house, leachate lagoon and storage tank, and leachate recirculation system. Design was completed in 2002 and was permitted by ADEC. URS provided construction management and construction quality assurance during the construction of the first cell in 2004.

Daniel J. Levy, PG

Vice President / Principal-in-Charge



Areas of Expertise

Program / Project Management; Hazardous Waste Assessments / Remediation System Implementation and Operations & Maintenance; Dredged Material Management; Superfund and RCRA Investigations; Environmental Assessments; Risk Assessment; Ground Water;

Soils Characterization; NPDES; Environmental Assessment; Project Management; Quality Assurance; Coastal & Freshwater Wetland Mitigation Design and Monitoring; NEPA Studies; and, Ecosystems Management

Years of Experience

With URS:10 | With Other Firms: 18

Education

BS/1984/Geology/Florida State University

Graduate Studies/1988/Computer Modeling/Florida State University

Registration/Certification

Professional Geologist/Florida #1230

Certified Hazardous Materials Manager/Master Level/5446
40-hr OSHA Health and Safety Training

Mr. Levy has over 28 years of experience in the environmental industry and specializes in environmental remediation technologies. He is a registered professional Geologist with a strong working knowledge of the State and Federal regulations, including; Compensation and Liability Act/Superfund Amendments and Reauthorization Act (CERCLA/SARA); Resource, Conservation, Recovery Act/Hazardous and Solid Waste Amendments (RCRA/HSWA); Toxic Substance Control Act (TSCA), and Chapter 62-780, FAC requirements. Mr. Levy has managed and directed over 300 remedial projects (over 150 petroleum sites in Florida), ranging from site assessments to implementation large-scale, complex, multi-phase treatment systems and has served as the technical director several complex petroleum cleanups, including the 500,000 gallon fuel spill at the FAA Williams Hughes Technical Center in NJ, the Coastal Oil fuel spill in South Boston and the Snapper Creek Service Station explosion in Miami which forced the evacuation of over 100 residents. His experience includes the research and development of alternative treatment technologies and the design of innovative remediation systems. Mr. Mr. Levy is also the co-inventor of the patented SEDCUT Remediation Technology and the recipient of the Honor Award for Innovation from the American Academy of Environmental Engineering. Key projects are described below.

E08-DERM01 Environmental Contract, Various Sites, Miami-Dade County Florida (2008–ongoing): Serving as Principal-in-Charge providing technical oversight of \$3M environmental contract providing site assessments, source removals, remedial action design and implementation, O&M, and other environmental services to various user departments from the county. Sites include petroleum and non-petroleum assessment

and remediation at Miami International Airport, Homestead General Aviation Airport, Opa-locka General Aviation Airport, various parks throughout the county that were prior dumps/landfills, and other county facilities.

E09-DERM-01 PTP for Miami-Dade Transit Department, Environmental Contract, Various Sites, Miami-Dade County, Florida (2010–ongoing): Serving as Principal-in-Charge providing technical oversight of the \$2.75M environmental contract providing site assessments, source removals, and other environmental services to Miami-Dade Transit Department and Public Works and Waste Management (Solid Waste) from the County. Work includes general project management, client interaction, scope development, oversight of field assessment and remedial activities, report preparation, and invoicing. Sites include petroleum and non-petroleum assessment and remediation at Miami-Dade Transit facilities and the former Virginia Key Landfill.

Project Director, Coral Gables Incinerator Demolition: Served as the Project Director for the demolition of a 165-ft tall incinerated stack and associated structures. Due to the presence of various contamination sources (dioxin, asbestos, biological toxics and heavy metals), proximity of the facility to residential homes and entrance roads, demolition work required extensive precautionary measures, air and noise monitoring, public meetings and night time operations to allow use of the adjacent transfer facility during demolition.

Project Director, Miami International Airport (Hangar 22 Remediation System): Project Director for the \$7.4 million remedial action plan engineering design, implementation and operation and maintenance for the Former Eastern Airlines Hangar 22 site, at Miami International Airport (MIA). Project involved the remediation of over 600,000 square feet (14 acres) of critical airside airport property.

Project Director, Miami International Airport (NW Cargo Area): Project Director managing the assessment and remedial action plan design for the groundwater vinyl chloride plume which impacted the Miami Springs Wellfield. The groundwater plume impacted over 100 acres, involving the installation and sampling of 140 monitoring wells and 25 microclusters, groundwater modeling and extensive regulatory interaction.

Project Director, Formerly Used Defense Site (FUDS) – Aerodex Leasehold (Miami International Airport): Project Director for the contamination assessment, Remedial Design and Source Removal for the former Aerodex leasehold area at Miami International Airport. Project included the completion of a Risk Based Corrective Action (RBCA) report.

Project Director, Miami International Airport (Eastern-U Cargo Area): Project Director for sampling of canal sediment at Miami International Airport for the detection of Cesium-138, a

radioactive isotope used in dating of contaminated sediments, for a PRP determination at a CERLIS site.

Project Director, PAC Applications, Miami-Dade Aviation Department: Project Director for the MDAD Pre-approval Advance Cleanup (PAC) program for Miami International Airport.

Program Manager, Hazardous Waste Contract, Miami-Dade County, Florida: Served as Program Manager for a 3-year, \$30 million contract (1997 – 1999) for work involving environmental planning, wetlands mitigation, stormwater monitoring and general engineering and consulting.

Program Manager, Hazardous Waste Contract, Miami-Dade County Department of Environmental Resources Management: Program Manager for a 5-year, \$60 million hazardous waste contract (1992 – 1997): Contract services included subsurface investigations, PCB abatement, soil and groundwater remediation, bioremediation pilot testing, and the development of best management plans for facilities owned and operated by Miami-Dade County.

Program Manager, Environmental Professional Services Agreement, Miami-Dade County, Florida: Served as Program Manager for a 5-year, \$3.3 million contract to provide general engineering services at Miami International Airport. Services provided included stormwater and industrial waste treatment plant evaluations, environmental site investigations, and preparation of best management plans, regulatory liaison and oversight of construction activities.

Project Director, National Contingency Plan (NCP) Compliance, Miami-Dade Aviation Department: Served as Project Director providing technical assistance to Miami-Dade Aviation Department (MDAD) regarding the CERCLA, National Contingency Plan (NCP) in order for Miami International Airport to pursue recovery of environmental cleanup costs from potentially responsible parties (PRP's). Project included development of cost response strategies, development of a tenant compliance program, conducting public meetings and workshops, and overseeing the FDEP Consent order obligations.

Project Director, Dewatering Treatment System Design, Build and Operate, Private MDAD Contractor: Project Director for the design, permitting, implementation and operation and maintenance of a 500gpm portable dewatering treatment system to remediate hydrocarbon contaminated water generated during construction activities at MIA.

Confidential Client (Big Box Super Store) - Assessment and Cleanup, Inverness, FL: Project Director for the assessment and remedial approach related to the redevelopment of a Big Box Super Store. Previous operations at the site resulted in the release of chlorinated solvents and subsequent downward migration of the chlorinated solvents to a depth of 450-ft below land surface. The highest concentration was detected at a depth of 300-ft. A groundwater solute transport model was developed

to provide a decision support tool to determine appropriate remediation strategy. GW Model included 9 hydraulic layers and was run in 10 year increments to illustrate COC degradation properties over a 100 year period.

Eglin Air Force Base, A-20 Radar Site: Managed the delineation of a mix groundwater plume containing petroleum hydrocarbons and chlorinated solvents and the removal of petroleum contaminated soil. Actions performed included the installation shallow, deep and inter-mediate depth monitoring wells, groundwater and soil sampling and the collection of surface sediment and water samples for ecological and human health risk screening and for fate and transport modeling.

Service Stations in Florida, (Amoco, Exxon and Shell): Served as the Project Manager for the cleanup of over 150 petroleum contaminated service stations in South Florida. Services performed included, underground storage tank removals, subsurface investigations, remedial action plan designs, remediation system implementation and operation and maintenance. Prepared phase I/II environmental assessment reports, contamination assessment reports (CAR's) and Remedial Action Reports (RAP's).

Coastal Fuels Bulk Storage Facility – South Boston (1997-1998): Served as the project manager for the assessment and remedial design of the South Boston bulk storage facility. Project involved the installation of over 100 monitoring wells and 58 soil borings to identify the potential sources and to delineated the horizontal and vertical extent of a petroleum plume. The investigation was initiated after free product was detected in one of the adjacent residential basements. Supervised an extensive air monitoring program to determine the air quality in the surrounding residential homes and adjoining businesses. Utilized forensic chemistry to age date the subsurface contamination and to identify potential responsible parties (PRP's). Provided expert testimony on behalf of Coastal Fuels regarding the assessment techniques used and interpretation of field investigation used.

Professional Hydrogeologist, FAA Superfund Site, Atlantic City, New Jersey: Technical Director for the operations of 6 remediation sites (Area B, D, E, 20a, 29, and 41). COC's include chlorinated solvents, petroleum hydrocarbons and heavy metals high concentrations of mercury. Facility was placed on the NPL list in Oct. 1990 and is the largest FAA hazardous waste site in the country. Key services; design/build and operation of a 750 gpm groundwater treatment system, GW modeling, regulatory briefings (USACE, EPA, DEP) and evaluation and implementation of innovative remediation technologies.

Litigation Support (Amoco Oil, Hollywood Florida, 1989): Provided expert testimony on behalf of the Amoco Oil Company regarding the chemical product degradation of PCE and its relationship to degradation products of automobile cleaning solvents, 1989 case of *Amoco vs. Marvin's Cleaners*.



Areas of Expertise

Project Management, Site Assessments, Source Removals, Groundwater Assessment and Remediation, Hazardous and Non-hazardous Soils, Tank Closures Assessments, Methane Gas Assessments, Remedial Action Implementation, Operation & Maintenance and Construction Oversight

Years of Experience

With URS: 15 | With Others: 9

Education

BS/1984/Geology/University of Texas at Austin

Registration/Certification

1992/Professional Geologist/ Florida No. 1416

Opa-Locka General Aviation Airport – MDAD Security Clearance

Miami International Airport – U.S. Customs Security Clearance

Ms. Sessions is a Florida-registered Professional Geologist and a URS Certified Project Manager with over 24 years of experience in the environmental field. She currently manages the E08-DERM01 and E09-DERM01 contracts with Miami-Dade County with a combined value of \$5.75 million and various other projects with private clients and municipalities. Responsibilities include interfacing with clients, preparing proposals, managing projects including providing technical guidance and assembling a team of qualified personnel to fit the client's project needs, maintaining project schedules and budgets, client invoicing and collection, and overseeing a staff of geologists and engineers. Technical experience includes management of site assessments, tank closure assessments, source removals, methane gas assessments, remedial action design and implementation, and operation and maintenance of long-term remediation systems. Specific examples of her experience are described below.

E08-DERM01 Environmental Contract (and predecessors E04-DERM01 and E98-DERM01), Various Sites, Miami-Dade County Florida (1998–ongoing): Responsible for program management of \$3M E08-DERM01 environmental contract providing site assessments, source removals, remedial action design and implementation, O&M, and other environmental services to various user departments from the county. Work included general project management, client interaction, scope development, oversight of field assessment and remedial activities, report preparation, and invoicing. Sites included petroleum and non-petroleum assessment and remediation at Miami International Airport, Homestead General Aviation Airport, Opa-locka General Aviation Airport, various parks throughout the county that were prior dumps/landfills, and other county facilities.

Assignments performed under E08-DERM-01 include:

PROS Ives Estates Park Ammonia and Methane Gas Assessment and Remediation, Miami-Dade County (2006–

ongoing): Project Manager for the design and preparation of a Methane Gas Monitoring Plan and Design Drawings for a methane gas collection system to prevent landfill gases from intruding into recreational and maintenance buildings. The recreational park was built on top of an old landfill and URS was brought in near the end of construction to provide mitigating measures to address methane gas. URS provides ongoing methane gas monitoring and operation & maintenance of the methane gas extraction system. Additionally, URS provides groundwater monitoring of on-site monitoring wells for ammonia contamination.

Concourse C Source Removal Oversight at MIA, MDAD, Miami-Dade County (2009–ongoing): Managed the oversight of source removal of free product and petroleum saturated soil in two phases (2 years apart) due to other concurrent construction activities at Concourse C. Upon completion of each phase URS submitted Source Removal Reports to DERM documenting the removal and disposal of over 20,000 tons of petroleum saturated soil and over 84,000 gallons of free product and petroleum contact water. URS employees maintained airport security badges with escort privileges for site access since the project was located airside and adjacent to active runways and terminals. Additionally, driver's passes and vehicle decals from MIA were required in order to drive airside. URS will also be performing sampling of additional soils removed from the site to characterize them for disposal or reuse.

WECA Pond, MIA, Assessment, Source Removal Planning and Oversight of Hazardous Muck Soils (2008–ongoing): Project Manager for the assessment and delineation of hazardous muck soils and groundwater contamination resulting from historical dumping in a former canal located at Miami International Airport. Provided soil and groundwater assessment and identification of the limits of muck soils from the former canal. Prepared a Source Removal Plan / Remedial Action Plan addressing the removal of hazardous soils and providing groundwater treatment for mixed chlorinated solvent / petroleum contamination. Provided construction oversight of soil excavation, free floating product removal and open hole treatment (air sparging) of contaminated groundwater. Upon completion of source removal, prepared and submitted to DERM a Source Removal Report.

E09-DERM-01 PTP for Miami-Dade Transit Department, Environmental Contract, Various Sites, Miami-Dade County, Florida (2010–ongoing): Responsible for program management of \$2.75M environmental contract providing site assessments, source removals, and other environmental services to Miami-Dade Transit Department and Public Works and Waste Management (Solid Waste) from the county. Work included general project management, client interaction, scope development, oversight of field assessment and remedial activities, report preparation, and invoicing. Sites included

petroleum and non-petroleum assessment and remediation at Miami-Dade Transit facilities and the former Virginia Key Landfill. Ms. Sessions is currently serving as Project Manager for the former Virginia Key Landfill, providing assessment, groundwater remedial design, landfill closure design and construction oversight services.

Assignments performed under E09-DERM-01 PTP include:

Central Bus Facility Oil/Water Separator Assessment and Closure, MDT, Miami-Dade County (2011–2012): Project Manager responsible for overseeing the assessment and closure of an oil/water separator (OWS). URS oversaw emptying and cleaning of the OWS and cutting and capping of inlet and outlet pipes. Soil samples around the OWS were collected and analyzed and contaminated soil was removed and disposed. Based on the near vicinity of a loading ramp, the OWS was abandoned in place. A tank closure report was submitted to and approved by DERM and the site received closure with no conditions.

MDT Parcels 144 and 145, MIC Earlington Heights Connector Quarterly Monitoring, Miami-Dade County (2012–2013): Project Manager for the quarterly sampling of monitoring wells to evaluate the levels of lead in the area of Parcels 144 and 145, discovered in 2007. After one year of monitoring was completed, no further action was requested from DERM and approved.

MDT Venevision Studio Limited Site Assessment, Miami-Dade County (2012-ongoing): Project Manager for the completion of contaminated soil delineation at the MDT property adjacent to Venevision Studios in the vicinity of 7500 NW 72 Ave. URS conducted soil sampling for benzo(a)pyrene and will be preparing a Restrictive Covenant and a No Further Action with Conditions Proposal to address contaminated soils left in place.

MDT Loading Dock Notice of Required Testing (NORT), 111 NW 1 St, Miami-Dade County (2011–2011): Project Manager for the sampling of a monitoring well in the vicinity of a new 5,000-gallon UST. DERM required that MDT perform sampling as a result of strong petroleum odors and free-product detecting during the installation of the UST. Sampling results indicated no regulatory exceedance of petroleum constituents. This was documented in a report prepared by the URS Team and No further action was subsequently approved by DERM.

Other projects performed:

Private Pipeline Company, Miami-Dade County (2010-ongoing): Performed contamination reviews in support of dewatering permit applications for Phase V, Phase VI, and Phase VII hydrostatic pressure testing of 10.2, 11.2, and 2.2 miles, respectively, of an 18-inch diameter natural gas transmission pipeline in Miami-Dade County. Also performed

desktop contamination reviews of numerous other isolation dig sites in support of dewatering permit applications throughout south and central Florida with Miami-Dade DERM and the South Florida Water Management District. Provided backup to dewatering permits, including remedial design to treat groundwater contaminated with petroleum and non-petroleum constituents during dewatering. Managed and oversaw the implementation of groundwater treatment using air stripping and filtration during actual dewatering activities.

Country Club of Coral Gables, City of Coral Gables, (2007-ongoing): Project Manager overseeing site assessment of contaminated soil and groundwater as a result of a release from an underground storage tank. URS provided installation of monitoring wells and collection of soil samples to delineate petroleum contamination. URS conducted a source removal of contaminated soils and free floating product resulting in a significant reduction of dissolved groundwater contamination. Currently providing continued monitoring of groundwater on a quarterly basis. Site will be closed with conditions consisting of engineering controls and restrictive covenant.

Biltmore Golf Course Maintenance Facility, City of Coral Gables. (2009-ongoing): Project Manager for the assessment of arsenic in soil and groundwater in the vicinity of the maintenance building at the Biltmore Golf Course. Prepared a Site Assessment Report delineating soil and groundwater contamination, subsequently approved by DERM. This was followed by source removal of arsenic contaminated soils in the vicinity of the maintenance building and the submitted of a Source Removal Report. Additional work to be completed includes removal of additional arsenic contaminated soils and the installation of an engineering control in the form of asphalt pavement a top contaminated soils surrounding the maintenance building.

Additional Specific Experience Includes:

- Virginia Key Landfill Assessment, Remedial Design and Landfill Closure
- Chapman Field Park Ammonia Background Study and Monitoring
- Joseph Caleb Environmental Assessment and Source Removal
- SDWWTP Site Assessment for Oil/Water Separator
- North Biscayne Bay Wetlands Restoration Geotechnical and Environmental Sampling and Trash Delineation
- Northwest Cargo Area Deep Well Installation and Monitoring

Edward Marks, PG

Health & Safety Officer



Areas of Expertise

Worksite Safety, Diving Safety, Corporate Safety Policy; Geological Drilling & Sampling, Well design, Contamination Assessments, Remedial System Operations and Maintenance; Underwater Resource Surveys, Project Management; Safety Training Instructor

Years of Experience

With URS: 13 | With Others: 2

Education

BS/2001/Geological Sciences/Florida State University

BS/2001/Environmental Studies/Florida State University

Minors: Marine Biology, Botany, and Math

Registration/Certification

2014 Emergency Management Maritime/Coastal Environments

2014 American Academy of Underwater Scientists

2012 OSHA Hazwoper Instructor

2009 NAUI Rescue Diver

2008/Florida Professional Geologist No. 2553

2008/Stormwater Management Inspector

2006/Caterpillar Forklift Operator

2004/STL 8-hour FDEP Groundwater Sampling Methods

2002/NAUI Nitrox Diver

2001/OSHA 40-hour Hazmat

2001/Boat USA Boating Safety

1995/PADI Open Water Diver

Mr. Marks has over 12 years of experience conducting environmental and ecological investigations for a wide variety of public and private sector projects. His compliance background concentrates in environmental and ecological permitting and compliance projects, contamination cleanup/remediation, and marine resource surveys throughout eastern United States, from southeastern Florida and gulf coast region northward to New Jersey. He studied coastal geology and environmental studies, earning two Bachelor of Science Degrees simultaneously at Florida State University. He began an internship at The Florida Department of Environmental Protection / Florida Geological Survey specializing in coastal geology and groundwater flow characteristics through those geologic environments. Mr. Marks worked closely with the Florida Department of Environmental Protection, becoming educated with State and Federal environmental regulations early in his career, developing a working knowledge of regulations pertaining to contamination assessments and remediation as well as ecological surveys and permitting. After Joining URS Corporation, he applied his knowledge of geology and hydrogeology to contamination assessments and site remediation. Additionally, he applied his knowledge of biology to the field of ecological assessments, specializing incorporating permit compliance in both terrestrial and marine environments. Mr. Marks has provided safety oversight and enforcement of environmental compliance

regulations for many construction and mitigation projects and is the project team leader and Dive Safety Officer for all underwater surveys conducted by the URS Miami Office. . Mr. Marks has experience with the following compliance plans: Storm Water Pollution Prevention Plan (SWPPP), Spill Prevention Response Plan (Spar Plan), Wetland and Water body Construction and Mitigation Procedures, Upland Erosion Control, Revegetation, and Maintenance Plan, and State of Florida Department of Environmental Protection Generic Permit for Stormwater Discharge from Large and Small Construction Activities. Mr. Marks has established a strong reputation for successfully implementing projects in very remote and difficult environments. Mr. Marks has extensive field experience and competence and is experienced at working in extremely isolated and demanding environments.

Mr. Marks has been designated as a Site Safety officer since his career began with the Florida Department of Environmental Protection in 2001. He was designated the URS Miami Health and Safety Officer in 2010 after displaying leadership in Health and Safety related issues through 9 years of project oversight in the field with URS. He also was designated the Diving Safety Officer for the URS office, one of only two offices nationwide that conducts diving surveys both inshore and offshore. In 2012-2013, Mr. Marks was appointed the position of Regional Safety Manager for the Southeast U.S. that included Florida, Georgia, South Carolina, Tennessee, and North Carolina. In 2013-2014, the Southeast Safety Region was divided based on his recommendations. Mr. Marks is currently the Regional South Specific examples of his experience are described below.

Project Safety Lead/Hydrogeologist, FAA Technical Center Base Wide Remediation, New Jersey 2004-Present: Project Field Safety Lead/ / Hydrogeologist providing design, operational, and oversight assistance with the continued operation and modification of a detailed multi treatment remediation system servicing an active FAA Technical Center, Air Force Base, and an active International Airport covering over 600 acres of protected wildlife management including expansive wetland areas to meet NJDEP compliance limits for clean water.

Project Safety Lead/Environmental Scientist, Various O&M Projects, Florida Gas Transmission Company, 2003-Present: Environmental Scientist and task leader for various pipeline-related operations and maintenance, and relocation projects in Florida. Tasks include Federal, State and local agency environmental resources, NPDES and construction dewatering, FERC documentation preparation (Prior Notice and EA), wetland and upland evaluations, right of way utility investigations, threatened and endangered species surveys, mitigation monitoring, construction oversight and inspections, construction oversight regarding permit compliance, treatment system oversight and operation for construction dewatering monitoring of construction dewatering, and environmental / contamination

assessments for potential pipeline routes and compressor station locations.

Project Safety Lead/Environmental Scientist, 24-inch Miami Expansion, Florida Gas Transmission Company (2010-Present): Lead Environmental Scientist for tasks associated with the construction of a new 3-mile segment of pipeline in Hialeah, Miami-Dade County, Florida. Tasks included wetland evaluations and permitting, T&E species reviews, extensive contamination assessments, subsurface investigations (geotechnical and contamination-related), erosion control, sheet pile structural integrity analysis, subsurface investigations (geotechnical and contamination-related), construction dewatering permitting to include contamination remediation systems design for arsenic and petroleum treatment, hydrostatic testing permitting, FDOT/Hialeah/Miami-Dade County utility right of way permitting, and maintenance of traffic planning/permitting for construction.

Project Safety Lead/Environmental Scientist, 12-inch Miami Mainline Loop, Florida Gas Transmission Company (2009-2011): Environmental Scientist managing environmental assessment tasks associated with the construction of a new 5-mile segment of pipeline in close proximity to the Miami-International Airport in Miami-Dade County, Florida. Tasks included wetland evaluations and permitting, T&E species reviews, extensive contamination assessments, subsurface investigations (geotechnical and contamination-related), erosion control, sheet pile structural integrity analysis, construction dewatering permitting to include contamination remediation systems design and construction oversight for arsenic, ammonia and petroleum treatment, hydrostatic testing permitting, FDOT/Miami-Dade County utility right of way permitting, FERC Reporting/Prior Notice filing, and maintenance of traffic planning/permitting for construction.

Project Safety Lead/Environmental Scientist, Loop 11, Phase VIII Expansion, Florida Gas Transmission (2010-2011): Environmental Scientist conducting environmental assessment and compliance tasks associated with the construction of a new 14-mile segment of pipeline in southeast Miami-Dade County, Florida. Tasks included contamination assessments, subsurface investigations (geotechnical and contamination-related), erosion control, sheet pile structural integrity analysis, construction dewatering permitting to include contamination remediation systems design and construction oversight for ammonia treatment, and hydrostatic testing permitting.

Project Safety Lead/Environmental Scientist, 16-inch Port Everglades Lateral relocation, Florida Gas Transmission Company (2009-Present): Environmental Scientist / Geologist conducting extensive contamination assessments, subsurface investigations (geotechnical and contamination-related), compliance tasks associated with the relocation of a 1,580-foot segment of pipeline along Eller Drive in Port Everglades,

Broward County, Florida. Tasks included contamination assessments and sampling, erosion control, sheet pile structural integrity analysis, construction dewatering permitting and hydrostatic testing permitting.

Project Environmental Scientist, Calypso U.S. Pipeline – Grand Bahama Island, Bahamas to Port Everglades, Fort Lauderdale, Florida (2001-2009): Project Environmental Scientist for the preliminary assessment and environmental impact analysis necessary to apply for and subsequently modify environmental permits from the USACE, FDEP and Broward County for the U.S. portion of a proposed 90-mile pipeline from Grand Bahama Island, Bahamas to Ft. Lauderdale, Florida. The project included an extensive alternatives analysis evaluating trenching, directional drilling, and tunneling alternatives resulting in an approximate 3-mile mined 10-foot diameter tunnel beneath the nearshore coral reef systems.

Project Safety Lead/Environmental Scientist, Compressor Station 22, Miami, Florida Gas Transmission Company (2004-2007): Project Environmental Scientist and task leader for environmental assessment and monitoring related tasks associated with FGT's proposed Compressor Station 22 in Miami, Florida. Tasks include conducting an environmental assessment, contamination assessment and remediation, dewatering discharge sampling, trench and frac-tank air quality sampling, air sparging dewatering monitoring.

Project Safety Lead/Environmental Scientist, Turkey Point Lateral, Miami, Florida Gas Transmission Company (2005-2007): Project Environmental Scientist and field leader for environmental assessment related tasks associated with installation and operation of pig launcher and receiver facilities along FGT's existing approximate 18-mile pipeline lateral in Miami, Florida.

Project Environmental Inspector/Safety Lead, Chevron Pipeline, Jean Lafitte National Historic Park and Preserve, New Orleans 2012: Project Environmental Inspector/Safety Lead during pipeline construction activities through the Jean Lafitte National Historic Park and Preserve. The project consisted of dredging, trenching, and horizontal directional drilling through 0.55 miles the preserve. The project required removal, storage and replacement of the floating vegetation from project corridor so construction of the 24 inch petroleum pipeline could be accomplished within the wetlands of the preserve. The responsibilities also included monitoring of all work activities within the park to reduce the potential of damage to the park.

Areas of Expertise

Brownfields

Environmental Site Investigation

Hydrogeology

Years of Experience

With URS: 23 Years

With Other Firms: 2 Years

Education

MEM/Water Resource Management/1989/Duke University

BS/Environmental Studies, Geology/1986/Tufts University

Registration/Certification

2000/Certified Hazardous Materials Manager (CHMM), Master Level/#10396

2010/Certified Project Manager

Ms. Rubin has extensive experience in Brownfields, coordinating an approach to environmental issues at sites with the vision towards redevelopment. Ms. Rubin has been involved in planning and project support for multiple redevelopment projects and programs that involve completion of environmental assessment and planning activities.

Ms. Rubin has assisted public entities, property owners, and private developers by addressing the potential opportunities represented by brownfields. She has worked with clients to facilitate redevelopment at properties within the context of state and federal voluntary and regulatory programs and risk-based approaches to redevelopment of Brownfield properties.

Brownfield Assessment Program-Chicago Heights, Illinois: Brownfields investigations for the City of Chicago Heights, Illinois through two USEPA Brownfields Assessment Grants, an IEPA Municipal Brownfields Redevelopment Grant and a USEPA Revolving Loan Fund, including associated programmatic documentation such as monthly reports, ACRES database, and MBE/WBE reporting. Phase I ESAs, Phase II ESAs, remediation workplans, remediation oversight, SRP and NFR letters at the following sites:

- A former Toyota dealership has been redeveloped into a plumbing supply store
- A former strip mall in Chicago Heights, Bloom Plaza, contained a dry cleaner, was remediated
- A Superfund site is planned to be redeveloped as an expansion of an existing factory
- The former AMSCO site was remediated using Superfund to remediate PCB contamination
- A former Dodge dealership that is planned for redevelopment into a "big box" store
- Sites along Lincoln Highway were assessed for redevelopment

The Salvation Army Ray and Joan Kroc Corps Community Center: Brownfield redevelopment services at two sites, located in the West Pullman neighborhood, which were previously the site of the American Brake Shoe and Foundry Company and an auto repair shop.

- Analysis of project design that might lead to remediation savings;
- Budget estimates for remediation according to each of the project design alternatives;
- Remediation oversight during construction;
- Advise contractor on management of unforeseen circumstances, if any (e.g., underground storage tanks, free product, discolored soils) during construction

South Suburban Chicago Brownfields Coalition Council #1, 2 and 3: Brownfields investigations through the South Suburban Chicago Brownfields Coalition Council, a group of 13 communities that have received funding through USEPA Brownfields Assessment Grants and IEPA Brownfield Redevelopment Grants. Tasks included environmental investigations from work plan through No Further Remediation letters. Communities are Lansing, Riverdale, Chicago Heights, South Chicago Heights, Posen, Robbins, Burnham, Markham, Dolton, Harvey, Phoenix, Dixmoor, and South Holland. Many sites have been entered into the Illinois Site Remediation Program and have received No Further Remediation letters.

- A former railroad right of way in Lansing will be redeveloped into an extension of the Burnham Greenway Trail as part of a rails-to-trails program
- A former lumber yard which will be redeveloped into a municipal building for the Village of Lansing
- Former Vulcan Mold site in Lansing is planned to be a manufacturing facility
- Riverdale Industrial Development Association site was used as boat storage and will be redeveloped as an industrial site
- The former Twin Outdoor Theater in Riverdale will be used for light industrial facilities
- A former chemical plant in South Chicago Heights has been redeveloped by Tufts Grinding
- A used car dealership in South Chicago Heights
- The former Iggy's Furniture store in Posen will be redeveloped into a landscaping shop
- A former chemical factory on Brainard Avenue in Burnham will be redeveloped into a multi-use building with commercial development on the ground floor and condominiums above
- A former IDOT facility in Markham

Brownfield Assessment Program-Robbins, Illinois: Brownfields investigations for the Village of Robbins, Illinois through a USEPA Brownfield Assessment Grant, including associated programmatic documentation such as monthly

reports, ACRES database, and MBE/WBE reporting. Phase I ESAs, Phase II ESAs, remediation workplans, remediation oversight, SRP and NFR letters at the following sites:

- The former Fuller Pond Plaza was redeveloped into a gas station with a mini mart and future plans for a car wash
- Future Metra commuter rail parking lot, warming station and associated Transit Oriented Development

Indiana Brownfields Program Trails and Parks Initiative: Brownfields investigations for the Indiana Brownfields Program Trails and Parks Initiative. In May 2007, the United States Environmental Protection Agency selected the State of Indiana to receive \$400,000 in grant funding to perform environmental site assessments at brownfield properties contaminated or potentially contaminated with hazardous substances or petroleum products. This funding, in addition to \$200,000 in matching funds provided by the Indiana Finance Authority, was used to establish the program. The following brownfields have been assessed by URS under this program:

- A Phase I was completed for a hospital including an asbestos and hazardous materials survey in Indianapolis
- A Phase II including an asbestos survey was performed at a site that is planned to be redeveloped into a park in Union City, IN

Brownfield Assessment Program-Ford Heights, Illinois: Brownfields investigations for the Village of Ford Heights, Illinois through an IEPA Brownfield Redevelopment Grant, including associated programmatic documentation such as quarterly reports. Phase I ESAs, Phase II ESAs, remediation workplans, remediation oversight, SRP and NFR letters at the following sites:

- A former Standard Oil gas station
- A former Clark Oil station
- A former auto repair shop

Brownfield Assessment Program-Calumet City: Brownfields investigations for Calumet City through USEPA Brownfields Assessment Grants for Hazardous and Petroleum sites; and an IEPA Brownfield Redevelopment Grant, including associated programmatic documentation such as quarterly reports, ACRES database, and MBE/WBE reporting. Phase I ESAs, Phase II ESAs, remediation workplans, remediation oversight, SRP and NFR letters at the following sites:

- A gas station site that will be redeveloped as residential property including a vapor barrier as an engineered barrier
- A Superfund site contaminated by PCBs
- Sites along Torrence Ave and Sibley Blvd

Brownfield Assessment Program-City of La Porte, Indiana: Brownfields investigations for the City of La Porte, Indiana through USEPA Brownfields Assessment Grants, USEPA Brownfield Cleanup Grant, Indiana Finance Authority

Assessment Grant, Indiana Finance Authority Cleanup Grant, and a La Porte County Solid Waste District Grant. The project involves assessment, community outreach, market research, and planning for redevelopment of over 100 acres of underutilized property located adjacent to downtown La Porte. The project highlights include:

- A solid waste landfill was closed under an agreed order with IDEM
- Industrial properties will be redeveloped into commercial and residential
- Asbestos abated from a Powerhouse
- Cleanup of an abandoned Railroad Right of Way

BP Whiting, Indiana Property Redevelopment: Brownfields investigations in Northwest Indiana in support of property redevelopment.

- Site investigations to support closure by the Indiana Voluntary Remediation Program (VRP). A golf course will be used as a cap for remediation purposes.
- Site investigations of an offsite area of the refinery under the VRP. The site was successfully remediated and will be used as a park area.
- Worked with IDEM to streamline investigations for property redevelopment at a 450 acre parcel using the Risk Integrated System of Closure.

Brownfield Assessment Program-Rockford, Illinois: Brownfields investigations for the City of Rockford, Illinois through USEPA Brownfields Assessment Grants and IEPA Brownfield Redevelopment Grants, including associated programmatic documentation such as quarterly reports, ACRES database, and MBE/WBE reporting. Phase I ESAs, Phase II ESAs, remediation workplans, remediation oversight, SRP, and NFR letters at the following sites:

- The US General Services Administration is building a federal courthouse on a brownfield in Rockford's downtown district
- The former Barber Coleman Village has been redeveloped into a grocery store.
- Another section of the former Barber Coleman Village has been remediated and will become a park and bike trail along the Rock River.

Areas of Expertise

Natural Resource Economics
Econometric Modeling
Benefit-Cost Analysis
Sustainable Return on Investment
Life-Cycle Cost Analysis
Greenhouse Gases
Renewable Energy

Years of Experience

With URS: 3 | With Other Firms: 10

Education

MS/Applied Economics/2007/ Utah State University
BS/Economics/2001/University of Utah

Ms. Bohmholdt has a Master's Degree in Applied Economics, specializing in Natural Resource and Environmental Economics and has been successfully performing economic analyses for government agencies, private and non-profit organizations. Her capabilities include statistics, benefit-cost analyses, economic impact assessments, linear programming, econometric modeling, life-cycle cost analyses, cost effectiveness and incremental cost analyses, forecasting, recreation assessments, and risk and uncertainty analyses. Prior to working for URS, she managed the Renewable Energy Portfolio Standard for the State of Maryland and was also the Maryland Technical Representative for the Regional Greenhouse Gas Initiative. In 2010, Ms. Bohmholdt authored the book, 101 Ways to Reduce Your Carbon Footprint. She was a spotlight speaker at the 2008 USU Climate Conference and also chosen to represent the conference with an interview on a local radio talk show. Recently she spoke at the Ninth International Battelle Conference on Remediation of Chlorinated and Recalcitrant Compounds in Monterey, CA.

Macro Benefits Analysis of Forthcoming Freight Operations and Transportation Technologies for the Federal Highway Administration (FHWA), Washington D.C. (Ongoing): A comprehensive and objective analysis of potential benefits and costs for Smart Roadside Initiative deployments and related technologies at a national level that would support technology adoption decisions by State Department of Transportation commercial vehicle enforcement agencies and the commercial vehicle community at large.

Emergency Costs Depth Damage Functions Study Phase of the North Atlantic Coast Comprehensive Study (NACCS), USACE, North Atlantic Division (Ongoing): Developing depth damage functions for the National Economic Development costs associated with each of the emergency activities conducted by the public and private sectors before, during and after storm events. An expert elicitation is being conducted for the area affected by Hurricane Sandy and the results will be used to

develop depth emergency cost and infrastructure damages for the North Atlantic region.

Economic Analysis for Biomass and Biosolids Gasification Feasibility Study for the City of San Jose, Environmental Services Department, San Jose, California (2013): Prepared economic and financial pro forma analysis for a demonstration- and commercial-scale gasification facility that will produce synthetic natural gas (SNG) from construction and demolition waste and biosolids from treated wastewater sludge. At commercial scale, the project may provide compressed natural gas (CNG) as an alternative transportation fuel. This project is assisting the City of San Jose with strategic planning to develop, implement, and document organic conversion technology projects in order to achieve the goals of the City's Zero Waste Strategic Plan. The conversion facility(s) will increase landfill diversion, generate renewable energy, and reduce greenhouse gas emissions.

Substantial Damage Estimation for the State of New Jersey Department of Community Affairs, New Jersey (2013): Collected data and evaluated over 300 structures in New Jersey after Hurricane Sandy. Inspected residential structures to estimate the percentage of damage to structural components and the overall structure. Data was recorded in the SDE tool and provided to the State to facilitate the Reconstruction, Rehabilitation, Elevation and Mitigation program.

Sustainable Return on Investment (sROI) Analysis for DuPont Remediation Project, Brevard, North Carolina (2013): Benefit-cost analysis evaluating the triple bottom line – the economic, social and environmental value – of sustainable investment strategies for the remediation of 2 industrial landfills.

Sustainable Return on Investment Analysis for DuPont Remediation Project, Deepwater, New Jersey (Ongoing): Benefit-cost analysis evaluating the triple bottom line – the economic, social and environmental value – of sustainable investment strategies for the remediation of a potential plume at the Chamber Works facility.

Buffalo & Pittsburg (B&P) Railroad Grant Application, Genesee & Wyoming Inc. Rochester, New York (2013): Grant was awarded as a result of the Benefit-Cost Analysis of the public benefits associated with constructing a rail connection between the B&P Mainline and the Norfolk Southern line in Buffalo, NY for New York State Department of Transportation Passenger and Freight Rail Assistance Program grant application.

Rochester & Southern Railroad Grant Application, Genesee & Wyoming Inc. Rochester, New York (2013): Grant was awarded as a result of the Benefit-Cost Analysis of the public benefits associated with rehabilitating 32 miles from Caledonia to Dansville, NY for New York State Department of Transportation Passenger and Freight Rail Assistance Program grant application.

Shaw Air Force Base Annual Air Emissions Inventory for the U.S. Department of the Air Force, Sumter, South Carolina (2013):

Assisted with the annual air emissions inventory, including actual annual and potential emissions of criteria pollutants, hazardous air pollutants, and toxic air pollutants for each stationary source category on the base.

Forty West Landfill Annual Air Emissions Inventory for Washington County, Hagerstown, Maryland (2013): Assisted with the annual air emissions inventory, including actual annual and potential emissions of criteria pollutants, hazardous air pollutants, and toxic air pollutants from landfill operations.

Charles County Landfill No. 2 Annual Air Emissions Inventory for Charles County Department of Public Facilities, Waldorf, Maryland (2013): Assisted with the annual air emissions inventory, including actual annual and potential emissions of criteria pollutants, hazardous air pollutants, and toxic air pollutants from landfill operations.

Relicensing of Conowingo Hydroelectric Generating Station, Exelon Generation, Maryland (2013): Estimating Exelon's perceived regulatory risk with respect to a sediment solution in Conowingo Pond. The potential for sediment to scour is the nexus between Exelon's operations and water quality impacts. Scour could potentially impact the oyster/crabbing industry in the Chesapeake Bay and impact aquatic life and plants. The TMDL implementation costs for the Susquehanna River Basin were used as a proxy for the estimated cost to reduce sediment load.

Sustainable Return on Investment Analysis for USACE Design/Build Project, Bethesda, Maryland (2014): Benefit-cost analysis evaluating the triple bottom line – the economic, social and environmental value – of sustainable investment strategies for two new buildings and three existing buildings at a Government campus. Sustainability strategies address air quality, stormwater and wastewater management, renewable energy, energy efficiency, and LEED Silver certification.

Sustainable Return on Investment Analysis for Architects of the Capital, Washington D.C. (2014): Benefit-cost analysis evaluating the triple bottom line – the economic, social and environmental value – of sustainable investment strategies for D.C. Village. Sustainability strategies address wastewater, renewable energy, and energy efficiency measures necessary to get to net-zero energy and net-zero waste water.

Blanchard River Watershed, Ohio General Investigation Feasibility Study, USACE, Buffalo District (2013): Conducted economic analysis, including a risk and uncertainty analysis, of with-project structural and nonstructural measures to determine the most cost effective measure for the Blanchard AFB portion of the General Feasibility Investigation for Findlay and Ottawa study areas. Performed flood damage reduction analysis using the HEC-FDA model, a structure inventory, hydrologic and hydraulic information, and nonresidential surveys. Included

emergency response, evacuation, reoccupation costs and transportation and agricultural benefits.

Hurricane Isaac Substantial Damage Estimation, FEMA TARC, New Orleans Metropolitan Area, Louisiana (2012):

Evaluation of over 5,000 structures in Louisiana after Hurricane Isaac. Reviewed inspections of residential and nonresidential structures to estimate percentage of damage to the structure components and the overall structure. Data was recorded in the SDE tool and provided to the Parishes to speed the recovery and rebuilding process.

Sustainable Return on Investment Analysis for Johns Hopkins University, Baltimore, Maryland (2012): Benefit-cost analysis evaluating the triple bottom line of sustainable investment strategies for two laboratory buildings. sROI results include the financial Return on Investment, net present value, discounted payback period, internal rate of return and the benefit to cost ratio. sROI includes an uncertainty analysis to demonstrate the likelihood of realizing costs and benefits.

Sustainable Return on Investment Analysis for East Salitrillo Restoration Project, San Antonio River Authority, Texas (2012): Benefit-cost analysis evaluating the triple bottom line of a natural channel design for a river restoration project compared to traditional armored bank design. Workshop with staff and stakeholders to demonstrate the sROI process and assessment.

Little Cuyahoga River, Section 206 Ecosystem Restoration Study, USACE, Buffalo District (2012): Assessed the ecosystem restoration benefits of 32 measures over 7 river segments. Conducted cost effectiveness and incremental cost analyses to assist in identifying the National Ecosystem Restoration plan which maximizes the environmental benefits.

Solar Demonstration Project, Massachusetts Department of Transportation, Boston, Massachusetts (2012): Business models and financing options were considered to determine the most beneficial option for MassDOT to pursue to have a solar PV system operating by October 2012. Economic analysis evaluated each option based on technical and legal feasibility, life-cycle costs and benefits to MassDOT, and the time required for project implementation. Assisted with procuring a public private partnership (P3) by preparing the request for proposals and evaluating responses to determine the net present value.

Boardman River Feasibility Study, Section 206 Ecosystem Restoration Study, USACE, Detroit District (2014): Assessed the ecosystem restoration benefits of potential modification or removal of three dams on the Boardman River. Identified the social impacts and the incidental benefits produced by each alternative plan. Conducted cost effectiveness and incremental cost analyses to identify the National Ecosystem Restoration plan which maximizes the environmental benefits.

Areas of Expertise

Landfill Assessment
Landfill Closures
Landfill Gas Systems Analysis
Landfill Operation & Maintenance
Renewable Energy
Remedial Engineering and Design
Construction Monitoring

Years of Experience

With URS: 25 | With Other Firms: 12

Education

Bachelor of Science in Civil and Environmental Engineering,
1979, University of Rhode Island

Registration/Certification

Registered Professional Engineer - Rhode Island (#5073)

Registered Professional Engineer - Massachusetts (#35232)

Licensed Site Professional - Massachusetts (#9658)

Registered Professional Engineer - Maine (#6563)

Registered Professional Engineer - New Hampshire (#7039)

Mr. Garfield provides management and consulting services relating to landfill soil and groundwater characterization, landfill gas recovery system design and construction, off-site gas migration, capping, operation and maintenance, and landfill forensics. Mr. Garfield is a Massachusetts Registered Professional Engineer in four states and is a Massachusetts Licensed Site Professional (LSP). Representative project experience includes the following:

Principal Engineer, Rockland Landfill Solar Permitting, Rockland MA: Mr. Garfield is the principal engineer for obtaining a Post Closure Permit modification for the installation of a 2.5 MW Solar PV array on 15 acres of the Rockland Landfill. Work included conducting site reconnaissance, evaluating geotechnical conditions of the cap such as slope stability, settlement, liner stress and revisions to methane venting. In addition, Mr. Garfield evaluated surface water hydrology, potential wetland impacts, and long term operations and monitoring. URS will provide construction oversight and health and safety planning for this project in the summer of 2013.

Senior Engineer, Solar PV Feasibility Study, Commonwealth of, Massachusetts Department of Transportation: Mr. Garfield is the senior engineer for evaluating the feasibility of installing 6 to 10 MW of Solar PV array on property owned by the MassDOT. Work included developing a desktop data and conducting preliminary assessments of over 600 plus sites. Once the desk top survey was completed, Mr. Garfield conducted site visits of the most desirable sites. He managed the production of site plans and panel layouts which determined the generation capacity. In addition, Mr. Garfield reviewed and commented on the economic evaluation which included capital

costs, rebates and incentive and return on investment. Mr. Garfield was the lesion to the Western Massachusetts Electric Company regarding the Interconnection application and net metering process.

Engineer of Record, Pelham Landfill Closure Design and Construction, Pelham, NH: Mr. Garfield was the Engineer of Record for closure of this 30-acre landfill in Pelham, NH. Responsibilities included:

- Design and installation of leachate collection system,
- Design and construction oversight of the regrading of 25,000 cubic yards of waste,
- Design of the landfill gas extraction system,
- Design of the landfill cap,
- Senior level management of cap construction oversight; and
- Settlement monitoring.

This 5-year landfill closure project was completed with the use of recycled materials that included manufactured top soil, 2,000,000 tires chipped to a 2" nominal size, and paper mill short paper fiber. As the Engineer of Record, Mr. Garfield led 23 public meetings with the New Hampshire Department of Environmental Services and the Town of Pelham Conservation Commission, Board of Selectman, Planning Board, and the Zoning Board of Adjustment.

Senior Engineer, Plainville Landfill Solar PV Generation, Plainville, Massachusetts: Mr. Garfield is supporting Blue Granite Consulting in their pursuit of an energy upgrade to the power produced from the burning of methane at Plainville landfill. Work included review of landfill characteristics and coordinating the power production estimates for this 150 acre landfill.

Principal Engineer, Solar PV Feasibility Study, Materials Recovery Facility, Auburn, MA: Mr. Garfield was the principal engineer for evaluating the feasibility of installing a Solar PV array on the roof top of a commercial Materials Recovery Facility (MRF) in Auburn, Massachusetts. Work included roof walk, panel layout, and assessment of generation capacity and economic evaluation which included capital costs, rebates and incentive and return on investment.

Principal Engineer, Solar PV Feasibility Study, Coventry, VT: Mr. Garfield was the principal engineer for evaluating the feasibility of installing a two-megawatt Solar PV on undeveloped land in Coventry, Vermont. Work included site walk review of tax maps and air photos, panel layout, assessment of generation capacity. In addition, this project also include preliminary siting for two one- megawatt wind turbine generators

Principal Engineer, Wind Energy Feasibility Study, Fall River, MA: Mr. Garfield was the principal engineer for evaluating the feasibility of installing wind turbine generators on the Fall River Landfill in Fall River Massachusetts. The feasibility study

was conducted using the AWEA siting criteria which included acoustics, ascetics, electronic interfaces, safety, avian risks, and air traffic.

Engineer of Record, Plainville Landfill, Plainfield, Massachusetts: Off-site landfill gas migration at the Plainville Landfill in Plainville, Massachusetts has necessitated post closure response actions. As the Engineer of Record, Mr. Garfield was responsible for developing a work plan to address the off-site migration of landfill gas. The work plan included subsurface exploration, collection of gas samples, monitoring landfill gas in off-site wells and residences, and preparation of a Corrective Action Alternatives Assessment (CAAA). Based on the information collected in the CAAA, a Corrective Action Design (CAD) was developed that included installation of a 1000 foot long vapor curtain. Within seven days of system startup, concentrations of landfill gas had been reduced to non-detected levels.

In the spring of 2007, Mr. Garfield conducted a three day forensic field investigation. Work included identifying areas in need of slope repair, identification of sub surface failed drainage systems, an evaluation of available vacuum at 115 recovery wells, and assessment of valve connection efficiency. A monthly operation and maintenance schedule is currently being developed for the site.

Engineer of Record, Fall River Landfill, Fall River, Massachusetts: As the Engineer of Record, Mr. Garfield managed the installation of inclinometers, the collection of field data and the calculation of stress and strain data to assess flexible membrane liner survivability at the 150-acre Fall River Landfill in Fall River, Massachusetts. Data reports were issued monthly for submission to the Massachusetts Department of Environmental Protection.

Design Engineer, Weymouth Neck Landfill, Weymouth, Massachusetts: Mr. Garfield was the design engineer for bench and pilot scale stabilization studies at the Weymouth Neck Landfill. Upon completion of the studies, the remedial design was amended to include the in-situ stabilization of 80,000 tons of arsenic and lead impacted soil. A three foot thick permeable cap was constructed to limit exposure to underlying treated soils.

Principal Investigator, South Kingstown Landfill, South Kingstown, Rhode Island: In 1999, as the Principal Investigator for the Environmental Impairment Liability Assessment for the South Kingstown Landfill, Mr. Garfield conducted an assessment of environmental liability issues associated with the University of Rhode Island disposal area, formerly known as the South Kingston Landfill. Activities conducted on this project included review of soil and groundwater data, a site visit, discussions with RIDEM officials, and preparation of an assessment report detailing environmental liability issues associated with this CERCLA site.

Project Engineer, former landfill site, Dover, Delaware: Project Engineer for a pre-remedial investigation assessment to provide data for delisting a former solid waste landfill site in Dover, Delaware from the State of Delaware's Hazardous Substance Clean-up Act program. Work included ground water monitoring to assess potential impacts to environmental receptors. Obtained delisting in 1992.

Specialized Training

40-hour OSHA 29 CFR 1910 Hazwoper Training

8-hour OSHA 29 CFR 1910 Supervisory and Annual Refresher Training

Troxler Nuclear Density Certification

NAUI Scuba Diving Certification

Michael R. Sharp, PE

Senior Geotechnical Engineer



Areas of Expertise

Foundation Engineering

Pile Design and Construction Dynamic Pile Testing

Years of Experience

With URS: 24 | With Other Firms: 7

Education

BSCE/1983/University of Florida

MSCE/1987/University of Florida

Registration/Certification

1989/Professional Engineer/

Florida #41205

1994/PDA Training Certification/

PDI GRL & Associates, Inc.

2008/Advanced PDA Certification/

Foundation QA HSDPT Examination

2013/Level 2 (Advanced) SmartPile® EDC System User

Certification #020FL0066-16

Mr. Sharp has over 30 years of experience in project management, foundation design and testing, and preparation of construction recommendations for roadways, major highway bridges and related earthwork, buildings and storage tanks, wastewater treatment plants, pipelines, and earthen dams. Typical projects are described below.

Municipal Facilities

Hookers Point Sanitary Sewer Pumping Station, Tampa, Florida: Performed dynamic pile load testing and evaluation using a PDA and CAPWAP software to develop production pile installation criteria for structures associated with a sanitary sewer pumping station in Tampa, Florida. Structure foundations consisted of concrete-filled, 8⁵/₈-inch outside diameter, pipe piles.

Hillsborough County Wastewater Treatment Plants, Florida: Conducted geotechnical investigations and analyses for two wastewater treatment plants including evaluation of static and dynamic test pile programs and development of pile installation recommendations for prestressed concrete and steel pipe piles.

Industrial

Senior Geotechnical Engineer, Advanced Wastewater Treatment Plant, Hovensa Refinery, St. Croix, USVI: Provided oversight for Hovensa of Contractor's static and dynamic pile testing program implemented to develop foundation installation criteria for piles supporting aeration and clarifying tanks as well as other ancillary structures included in the construction of an advanced wastewater treatment plant. Scope of services included oversight of testing program as well as review and evaluation of testing data and pile installation criteria.

IMC-Agrico, Four Corners Mine, FC-2 Spillway, Hillsborough County, Florida: Directed exploration and analyses to develop design and construction recommendations for a pile-supported spillway structure at a phosphate production facility waste clay settling pond. Project included wave equation analyses to develop pile installation criteria and construction monitoring services.

Miscellaneous

Senior Geotechnical Engineer, Gulfstream Natural Gas, LLC, Compressor Station 420 - Supplemental Geotechnical Services, Palmetto, Florida: Directed program of supplemental geotechnical studies to develop driven pile foundation design and construction recommendations for various structures and equipment including compressor units. In addition to field exploration, laboratory testing, and geotechnical analyses, the project included a dynamic pile testing program to develop production pile lengths and installation criteria for steel pipe piles.

Geotechnical Investigations, General: Performed geotechnical investigations and analyses for various building and storage tank foundations.

Analysis and Design of Dams, General: Performed analysis and design of earthen dams for phosphate mine settling ponds and wastewater treatment plant percolation ponds.

Layout, Site Grading, Storm Sewer, Sanitary Sewer, and Water Distribution System Design, General: Performed layout, site grading, storm sewer, sanitary sewer, and water distribution system design for residential subdivisions, recreational projects, and commercial developments.

Cost Estimates and Construction Supervision, General: Coordinated cost estimates and construction supervision as needed.

Federal Facilities

Geotechnical Engineer, US Navy Homeports, Mississippi and Alabama: Evaluated static and dynamic pile load tests to develop production pile driving criteria for U.S. Navy Homeports in Pascagoula, Mississippi, and Mobile, Alabama. Project included onshore and offshore piles.

Ports

Senior Geotechnical Engineer, New Berth 10, Port of Cristobal, Colon, Republic of Panama: Provided oversight for Panama Ports Company of Contractor's dynamic pile testing program implemented to develop foundation installation criteria for piles supporting a new wharf at the Port of Cristobal. Piles included 28-inch octagonal prestressed concrete piles, with and



without 26-inch diameter pipe pile extensions, as well as 30-inch diameter, battered pipe piles. Scope of services included oversight of testing program as well as review and evaluation of testing data and pile installation criteria.

Project Manager, E.A. Mariani Asphalt Terminal, Port of Tampa, Florida (2002): Managed project that included the design and construction of two 20,000 barrel capacity asphalt storage tanks, an asphalt blending unit facility, and the renovation of an existing pier and berthing dolphin at the Port of Tampa. In addition to overall project management, services included direction of geotechnical investigation and analyses to develop foundation recommendations for the proposed structures. Project also included coordination of appropriate environmental permits, preparation of bid documents, evaluation of submitted bids, and construction inspection and testing services.

Port of Tampa, Berth 208, Tampa, Florida: Provided design and construction recommendations for a major marine terminal at the Port of Tampa, Florida. Project included the construction of a 900-foot long, pile-supported wharf along with the development of a container handling and warehousing facility on approximately 35 acres of land adjacent to the wharf. Geotechnical services included review and evaluation of dynamic pile test data and development of installation criteria for 24-inch, prestressed concrete piles with five-foot, H-pile "stingers". Also directed a program of pile integrity testing using low-strain equipment following production pile installation.

E. A. Mariani Asphalt Terminal, Port of Tampa, Florida: Developed production pile lengths and installation criteria for pile foundations for the renovation of an existing pier and the construction of a new berthing dolphin at the Port of Tampa, Florida.

Transportation

Project Manager, Florida Gas Transmission, LLC, Pinellas and Walton Counties, Florida: Directed geotechnical investigations and analyses and prepared recommendations related to replacements of approximately 2.25 miles of 10-inch diameter gas pipeline along US 19 in Pinellas County as well as approximately 0.75 miles of 24-inch diameter gas pipeline in Walton County. Replacement pipelines are to be installed using horizontal directional drilling (HDD) techniques.

Project Manager, District Wide Geotechnical Services, FDOT District Five, Florida (2010-Present): Directed dynamic pile testing programs on several bridge widening/replacement projects within the District including SR 528 over the Indian River, SR 500 over Canal C-57, US 192 over Mill Slough, SR 520 over Second and Jim Creeks, SR 25 over Lake Palatlahaka Creek, CR 484 over CSX Railroad, and SR 11 over Little Haw Creek. Results of the testing were evaluated to develop appropriate production pile lengths and installation criteria at

each structure location. Pile types included 18-inch, 24-inch, and 30-inch square prestressed concrete piles as well as 20-inch diameter pipe piles.

Geotechnical Manager, Forest Lakes Boulevard, Pinellas County, Florida (2009-2010): URS was contracted by Pinellas County to evaluate the existing roadway in order to assess potential causes of the pavement deterioration and to provide recommendations and cost estimates for repairing the roadway.

Project Manager, District Wide Geotechnical Services, FDOT District Seven, Florida (2003): Provided foundation design as well as construction engineering, pile load testing and inspection services, along with drilled shaft inspection services on roadway and bridge projects within the District.

Senior Geotechnical Engineer, SR 20 Over Apalachicola River, FDOT District Three, Calhoun County, Florida (1998): Directed geotechnical engineering and construction monitoring services during the construction of an approximately 1.5-mile long, two-lane highway bridge (SR 20) over the Apalachicola River in north Florida. Foundations for the structure consisted of pile bents each containing five, 30-inch square prestressed concrete piles, with 18-inch voids cast the full length of the pile, as well as drilled shaft piers consisting of two shafts each. Shaft diameters varied from five to six feet at the approaches to the river and from seven to nine feet at the bank and river piers, respectively. The scope of work included directing and evaluating static and dynamic pile load test programs, as well as a drilled shaft load test program that consisted of multi-level Osterberg Cell load testing of fully-instrumented test shafts along with lateral load testing of an instrumented 9-foot diameter test shaft. Results of the load testing programs were used to establish production pile and drilled shaft tip elevations and installation criteria.

Senior Geotechnical Engineer, Maitland Boulevard (SR 414) Extension (Project 414-211), Orlando-Orange County Expressway Authority, Orange County, Florida: Directed dynamic pile testing program for the extension of Maitland Boulevard a distance of about 1.6 miles to the west from approximately the Orange/Seminole County line. The project included single-span bridge structures over a CSX Railroad spur and US 441 as well as an elevated viaduct structure, approximately 2,800 feet long, that spans Overland Road and a Florida Central Railroad mainline. The single-span structures and portions of the viaduct were supported by HP 14 x 89 steel piles while foundations for the remainder of the viaduct consisted of 24-inch square, prestressed concrete piles. Results of the testing were evaluated to develop appropriate production pile lengths and installation criteria throughout the project.

Areas of Expertise

Solid Waste Planning, Permitting, Design
Leachate and LFG Management
Geosynthetics Applications
Liner Design and CQA
Water Resources

Years of Experience

With URS: 15 | With Other Firms: 16

Education

BS/Civil Engineering/Iowa State University/1982

Continued Education

Graduate level coursework in Environmental Law, Hydrogeology and Environmental Water Chemistry

Registration/Certification

Professional Engineer/ Minnesota/ 1988

URS Project Management Certification, November 2006

Hazardous Waste Operations and Emergency Response, 40-hour Health and Safety Training in accordance with 29 CFR 1910.120, April, 1993

Beth A. Keister is a Senior Project Manager with URS Corporation and a member of the Environmental Engineering Group. She is responsible for management and engineering design of solid waste and water resources-related projects in both the public and private sectors. She has provided project management and civil engineering professional services for projects in the United States, its Territories, Europe, and Southeast Asia. Ms. Keister has specialized expertise in Project Management and Quality Management, including landfill liner Construction Quality Assurance. She has taken several projects through all phases from investigation, planning and permitting, to design and construction oversight. Specific project experience is listed below.

Kalmar Landfill, Olmsted County, MN: Completed comprehensive evaluation of 13 leachate treatment and disposal options including wetlands treatment, reverse and direct osmosis, recirculation, evaporation and use as quench water at a Waste-to-Energy facility. Evaluation included schematic design and preliminary cost estimating.

Minnesota Department of Transportation: Conducted an environmental evaluation, including evaluation of leachate disposal operations, of all 28 landfills currently accepting MSW in the state of Minnesota. Used by client as basis for waste disposal decision-making.

Remedial Investigation and Feasibility Study, Confidential Client, Duluth, MN: Ms. Keister is currently completing a Feasibility Study for this facility, evaluating several alternatives for sequestering or removing contaminated sediments from areas that pose a potential threat to receptors. Design of a Confined Disposal Facility (CDF) or Upland Repository includes design of leachate/elutriate management system and evaluation

of treatment and disposal options.

Total Environmental Restoration Contract (TERC) program for the US Army Corps of Engineers, funded by Department of Energy: Ms. Keister led the landfill closure project team on a U.S. Army Corps of Engineers Total Environmental Restoration Contract (TERC) project at Ellsworth Air Force Base, Rapid City, South Dakota. Ms. Keister served as Project Task Manager for five landfill remediations, including design and construction of one of the first Evapotranspirative (ET) final cover systems installed in the U.S., and the first to be approved by EPA Region VIII. Ms. Keister used the HELP Model and compared it with output of the UnSatH water balance model to design the ET covers for these facilities.

Waste Disposal Engineering (WDE) Landfill, Andover, MN: Design and implementation of pilot study to assess means of treating PCB-contaminated leachate being pumped from within the waste mass to a treatment building. Low-level contamination treated with particulate filters and granular-activated-carbon (GAC) filter system. The pilot was successful and the second phase, including design and installation of the full scale treatment system, is now complete.

Washington County Sanitary Landfill, Lake Elmo, MN: Design and construction observation on project moving approximately two million cubic yards of waste and final cover soils from an unlined facility to a new lined landfill. New landfill incorporates a triple composite base liner over eight cells, leachate collection and recirculation, active landfill gas extraction and stormwater management. Designed leachate management plan using HELP Model to define leachate generation over the 2.5-year construction period, and to verify liner and cover design. Project completed at total project cost of less than \$15 per cubic yard of waste landfilled.

Western Lake Superior Sanitary District (WLSSD) Landfill, Duluth, MN: Design and construction oversight and CQA for relocation of 400,000 cubic yards of waste and final cover soils and final closure of 90-acre landfill in northern Minnesota. Working in area surrounded by wetlands and adjacent to Duluth International Airport, project required permits or approvals by Federal Aviation Administration and US Army Corps of Engineers, Department of Natural Resources and Minnesota Pollution Control Agency Water Quality Division. Peat soil conditions require geotechnical evaluation and design to accommodate planned roadways and grading. This project also included revisions to an existing leachate management system, including updated calculation of anticipated flows, flow measurement and coordination with the receiving waste water treatment plant to handle construction-related discharges.

East Bethel Sanitary Landfill, East Bethel, MN: Relocated almost 300,000 cy of waste to consolidate landfill footprint, installed active landfill gas management system, upgraded groundwater treatment and control system, and installed

geomembrane final cover. Initial stages of project included waste delineation and gas migration study. Project is surrounded by environmentally sensitive wetlands and Sandhill Crane habitat. Final cover includes native prairie grasses for revegetation.

Woodlake Sanitary Landfill, Medina, MN: Completed design including 500,000 cy waste relocation, stabilization of sideslopes, active landfill gas management system, leachate extraction system and extinguishing landfill fire. Prepared GIS mapping of all monitoring locations for inclusion in State's Environmental Data Management System.

Other work involving leachate management and disposal design:

Olmsted County Kalmar Landfill, Olmsted County, Minnesota: Completed landfill permit renewal application for the Kalmar facility, including the ash, bypass and demolition landfills located just west of the City of Rochester. Permit application includes landfill plans for ultimate build-out and 10-year closure plan, Design Report, Operations Plan, Closure, Post-closure and Contingency Action Plans, and Financial Assurance Calculations. Calculated leachate generation, using the HELP Model, over the life of the facility and verified requirements for permit renewal.

Burnsville Sanitary Landfill Cell Construction, Burnsville, Minnesota: Project Manager for construction phase services associated with construction of final cell in main facility, including over 10 acres of liner and leachate collection system. The URS team addressed client-requested design modifications and several construction permits to keep the project on schedule. The project was completed on time and under the original bid cost of the project. The MPCA issued provisional approval of the Construction Documentation Report, prepared and submitted by URS, to allow the owner to begin placing waste prior to final completion of the construction.

Pope-Douglas Ash Landfill, Douglas County, Minnesota: Project manager for preparation of initial permit application, design and construction of first cell of the Pope-Douglas Ash Landfill. Permit was obtained and construction was completed within a three-year timeframe. Design included leachate generation calculations (HELP Model), water balance for liner and cover design and evaluation of leachate disposal alternatives.

Dubuque Sanitary Landfill, Dubuque, Iowa: Project engineer responsible for preparation of several permitting documents on a 70 acre landfill which had been in operation for 15 years. Permitting documents prepared in 1992 for submittal to the Iowa DNR included a closure/post-closure permit application, a retrofit leachate collection system plan for the areas already filled, repermitting application for the site and a borrow site investigation.

Ms. Keister has completed permitting, design and construction phase services for several ash storage facilities, all involving design of leachate collection and disposal systems, including the following:

- American Crystal Sugar Company Landfill, Hillsboro, ND
- Minot Sanitary Landfill, Minot, ND
- Gasifier Ash Landfill, Beulah, ND
- Evergreen Recycling and Disposal Facility (RDF), Northwood, OH
- Olmsted County Kalmar Landfill, Olmsted County, MN
- Olmsted/Dodge Ash Monofill, Olmsted County, MN
- NSP (Xcel Energy) Landfill, Wilmarth, MN
- NSP (Xcel Energy) Landfill, Red Wing, MN
- Pope-Douglas Ash Landfill, Douglas County, Minnesota.

Professional Societies/Affiliates

American Society of Civil Engineers

American Society of Testing Materials

Consulting Engineers Council/Minnesota

North American Geosynthetics Society

Solid Waste Management Association of North America

Society of American Military Engineers, Board President

Specialized Training

Hazardous Waste Operations and Emergency Response, 40-hour Health and Safety Training in accordance with 29 CFR 1910.120, April, 1993

Areas of Expertise

Environmental Engineering
HTRW Assessment / Remediation

Years of Experience

With URS: 13 | With Other Firms: 16

Education

1973/BS/Applied Science and Mechanical Engineering /
University of Toronto

Registration/Certification

NSPE #103001714

Professional Engineers of Ontario, Canada / 9302019

Mr. Cooper has approximately 29 years of experience in design, construction, and environmental engineering and planning. He has served as a client executive for Palm Beach County Solid Waste Authority, Motorola, AT&T and other major clients. His experience includes planning, design, value engineering, and construction of communication facilities, municipal utilities and infrastructure. He also consults on projects involving permitting, audits, investigations and remediation projects dealing with hazardous and non-hazardous wastes, value engineering, feasibility studies, and policy development and staff training related to risk management programs in Canada, the United States, the Caribbean Basin, and internationally.

Solid Waste/Landfills

- Program Management/Program development and execution for Palm Beach County Solid Waste Authority's \$1.3 B capital program.
- Leachate system design, closure approval and construction management for former Dyer Landfill, Palm Beach County Florida.
- Feasibility review, cost estimating support and program oversight for a \$750 M new 3000 TPD WTE plant, Palm Beach County, Florida.
- Alternative conversion technology evaluation and review of RFQ/RFP process Palm Beach County FL.
- Landfill hydraulic barrier design, permitting, construction and operation and maintenance of a former industrial landfill Palm Beach County Florida.
- Program Management of \$300 M refurbishment of a 2500 TPD WTE plant, Palm Beach County, Florida.
- Value engineering review team for new materials recycling facility and Transfer Station for Palm Beach County Solid Waste Authority
- Construction management and claim management Palm Beach County Solid Waste Authority Central County Transfer Station, Florida.
- New landfill site planning and background baseline investigations, Palm Beach County, FL.

- Feasibility, permitting, design and construction services for redevelopment of the 110 acre Cross State Landfill as a fire rescue training site and administrative complex. Project won excellence awards from both NAEP and SWANA.
- Consulting on re-development of three landfill sites for Palm Beach County Solid Waste Authority, Florida.
- Waste audit and characterization study for UTC Pratt Whitney Facility, Palm Beach County, Florida.
- Leachate collection and pumping station system evaluation and rehabilitation for 1000 acre landfill, Palm Beach County, Florida
- Former landfill monitoring and closure management - Solid Waste Authority Palm Beach County
- Technical Consultant for landfill closure and redevelopment of Wingate Road Superfund Site Ft. Lauderdale, Florida.
- Closure assessment and residential redevelopment of West Lake Park Road landfill in Palm Beach Gardens, Florida Solid Waste Authority of Palm Beach County, FL.
- Principal directing technical support for closure assessment of a Class III landfill in Hugh Taylor Birch State Park, Ft. Lauderdale, Florida.
- Master planning for Municipality of Metropolitan Toronto, Canada solid waste management system including recycling market study, landfill management, waste to energy feasibility and public involvement.
- Energy from Waste Feasibility Study, Barbados, W.I. Evaluated quantity, quality and disposal practices of solid waste potential energy recovery methods for Barbados, W.I.
- Solid Waste Master Planning for the Cities of Windsor and Ottawa Canada including evaluation of energy from waste options.

Areas of Expertise

Toxicology
Risk Assessment
Environmental Chemistry
Ecology

Years of Experience

With URS: 24 | With Other Firms: 14

Education

Post-Doctoral Fellowship/1985-1989/ Toxicology/ University of Kansas Medical Center
PhD/1985/Teratology/University of Kansas
MS/1980/Marine Biology/University of Mississippi
BS/1976/Systematics and Ecology/University of Kansas

Dr. Garrison is a Consultant/Principal Toxicologist with specialized expertise in the toxicology of a variety of environmental contaminants, including petroleum products, metals, PCBs, VOCs, pesticides, PAHs, dioxins and amines, as well as munitions compounds (HMX, RDX, nitroglycerin, tetryl, TNT, TNB, DNT, amino DNTs, and picric acid) and chemical warfare agents (nerve gas and mustard gas). Dr. Garrison has performed human health and ecological risk assessments for both RCRA and CERCLA projects. In addition to his expertise in toxicology, Dr. Garrison has experience in wetlands biology, having performed his masters research in salt marsh ecology. Prior to working for URS, Dr Garrison was a Research Assistant Professor in the Department of Pharmacology and Toxicology at the University of Kansas Medical Center, conducting basic toxicology research. While at URS Corporation, Dr. Garrison has been the primary author of numerous risk-related documents, including baseline risk assessments, screening risk assessments, cleanup goal documents, ecological risk assessments, risk assessment workplans, toxicology profiles, position papers, guidance documents, and training materials. In addition to providing technical input to risk assessment projects, Dr. Garrison has negotiation experience with both state and federal agencies, and has provided litigation support for several projects. Dr. Garrison has "hands on" experience performing risk work in all 10 U.S. EPA regions. The majority of these risk assessments have resulted in significant cost savings to the clients either through identification of sites for no further action, screening out SWMUs/subsites from further evaluation, and the development of health-based cleanup goals. Representative examples of Dr. Garrison's project experience are listed below.

Risk Assessment Task Leader, Schilling AFB, Salina, Kansas: Performed a Baseline Human Health and Ecological Risk Assessment for the former AFB, evaluated on-site risks from contact with soil, groundwater, surface water and indoor air (vapor intrusion pathway), including at an occupied dormitory located above a VOC-contaminated groundwater plume. Vapor intrusion risks were also evaluated for off-site residential

properties located downgradient from the facility. Presented findings of the risk assessments to the general public in a public availability session.

Risk Assessment Task Leader, Allied Signal Facility, Kansas City, Missouri. Developed risk-based Corrective Action Objectives (CAOs) for the Multi-Site Corrective Measures Study for the Department of Energy Kansas City Plant. CAOs were developed to address potential contamination at seventeen SWMUs and one potential release site. Components of the CAO development included identification of chemicals of concern, selection of potentially exposed populations, development of Site Conceptual Models, quantification of exposure, identification of chemical toxicity values, and calculation of numeric CAOs. Chemicals evaluated included a number of VOCs, SVOCs, and PCBs.

Risk Assessment Task Leader, Allied Signal Facility, Kansas City, Missouri. Performed a Baseline Human Health and Ecological Risk Assessment for the 95th Terrace Site at the Department of Energy Kansas City Plant. The risk assessment focused on potential PCB releases from site soils and surface water (stormwater outfall) into Indian Creek, and downstream into the Blue River.

Risk Assessment Task Leader, Numerous Refinery sites in Kansas. Performed Baseline Human Health Risk Assessment at two former refineries located in El Dorado and Wichita, Ks, and a tank farm in El Dorado Ks. These risk assessments included residential scenarios for the purpose of identifying necessary land use controls, and industrial scenarios to identify remediation needs. Performed screening level risk assessment for tank farm located in Wichita, Ks. Performed risk evaluation in support of property transfer at active refinery in McPherson, Ks. At the McPherson site, worked with KDHE and the stakeholders to ensure a soil management plan was in place to minimize any future risks in lieu of wide-scale soil remediation.

Risk Assessment Task Leader, Tooele Chemical Agent Disposal Facility, Tooele, Utah: The facility is nearing its goal of disposing of the last of the US stockpile of chemical weapons, and will soon be dismantled. We developed a risk-based approach to safely dispose of equipment and buildings at the Tooele facility that are contaminated with nerve gas and mustard gas. It is anticipated that the approach(es) developed will be used at other chemical agent disposal facilities.

Risk Assessment Task Leader, Former Refinery located in Kansas City, Kansas: Performed Baseline Human Health and Ecological Risk Assessments for a former refinery site located adjacent to the Missouri and Kansas Rivers. Issues included potential releases of petroleum related chemicals to the rivers, as well as potential on-site exposure by worker populations via direct contact and via vapor intrusion. This is an ongoing project.

Risk Assessment Task Leader, Development of Site Conceptual Exposure Model Software: Provided risk assessment expertise for development of "Site Conceptual Exposure Model Builder (SCEM Builder)" software for U.S. Dept. of Energy (DOE). This graphical software automates the process of developing SCEMs for use in multiple phases of environmental investigations, from initial site investigation through remediation. The software is currently posted on DOE's website, and has been used for training purposes by USEPA.

Risk Assessment Task Leader, Various Projects, Former Naval Ammunition Depot (NAD), Hastings, NE: Provided oversight of human-health and ecological risk-related projects conducted at this 48,000-acre site. Approximately 40 percent of the ordnance and munitions used by the Navy during World War II and the Korean conflict were produced at the NAD. The facility complex included 10 load, assemble, pack (LAP) production areas, 4 open burning/open disposal grounds for explosives, over 20 scattered waste/ordnance disposal sites, 9 wastewater treatment impoundments, 2 sewage treatment plants, a 7-acre landfill, 32 building sumps (catch basins), several firing ranges, various USTs, and a vast array of utilities, railroads, and storage buildings. Past land use resulted in extensive contamination of shallow soil/sediments, deep soils and soil gas, and groundwater with explosives (TNT, RDX, DNT, TNB, Picric acid), heavy metals, PAHs, and VOCs. Highlights of some of the risk-related work include the following:

Developed a screening level risk assessment approach for identification of solid waste management units which could be classified for no further action.

Developed health-based cleanup goals for remediation of soil contamination.

Working with the agencies reopened the ROD for OU4 and was able through changes in risk assessment methodologies to increase the cleanup goals of soil contamination with TNT, lead, and PAHs. These revised goals combined with URS Corporation's remedial technical knowledge was instrumental in obtaining U.S. EPA approval of ROD amendment for soil remediation which reduced estimated cleanup costs from \$40M to \$12M.

Oversite of a site-wide groundwater human-health baseline risk assessment using an innovative approach of risk isopleths for a number of receptor scenarios. The risk isopleths provided risk managers a readily understandable presentation of risk at 198 groundwater wells with the presence of multiple plumes of groundwater contamination encompassing over 5 square miles.

Lead Risk Assessor, Numerous Projects: Developed health-based cleanup goals for a number of CERCLA (Superfund) and RCRA facilities, using USEPA methodologies. Representative sites include pesticide formulation facilities (OP and OC insecticides, various herbicides), pharmaceutical facility (amine compounds), paint waste disposal areas (metals and VOCs),

explosives manufacturing facility (TNT), military facilities (VOCs, SVOCs, metals and a variety of explosives), and electronics manufacturing facilities (VOCs).

Prepared a baseline risk assessment and used the results of the risk assessment to demonstrate that lead-contaminated soils at a paint disposal site in rural Iowa did not pose an imminent threat to human health or the environment. The initial remedy selected by EPA had included off-site disposal in an approved landfill, however, the risk assessment provided the basis for a less costly in-situ remediation. Estimated cost savings are greater than one million dollars.

Performed baseline human health risk assessments at a number of sites, including military bases, pesticide formulation facilities, electronics facilities, waste disposal sites, and a pharmaceutical manufacturing facility.

Provided technical guidance and assistance in the preparation and scoping of approximately 10 additional baseline human health risk assessments.

Performed a screening level risk assessment for 16 SWMUs at Argonne National Laboratory.

Primary author for baseline human health risk assessments for two pesticide manufacturing facilities, one military base, and an explosive manufacturing facility.

Performed modeling for dust emissions, volatile emissions from soil, volatile emissions from trenches, volatile emissions from showers, and vapor intrusion (Johnson & Ettinger model) at numerous sites for use in risk assessments.

Developed more than 30 detailed toxicity and health effects information packages (toxicity profiles) for metals (such as lead, arsenic, mercury) and organics (PAHs, TCE, PCE, etc.) to be used by the practice in URS Corporation

Provided numerous risk-based services on other projects, including the development of risk-based concentrations as site screening tools, development of site conceptual exposure models to aid in project planning and data collection activities, and evaluation of potential risks associated with remedial alternatives.

Acted as senior reviewer on multiple URS Corporation position papers on risk-related topics, including papers on soil ingestion rates among various populations, review of shower models used by EPA compared to information available in the scientific literature, and chemical toxicology reviews.



Areas of Expertise

Project Management; Soil and Groundwater Contamination Assessments; Reasonable Assurance Reports for Class V Injection Wells; Phase I and Phase II Environmental Site Assessments

Years of Experience

With URS: 32 | With Other Firms: 1

Education

1979/MST/Biological Sciences/Florida Atlantic University

1980/BS/Geology/Florida Atlantic University

1976/Licenciado en Educación/Mención Ciencias

Biológicas, Universidad Católica Andrés Bello, Caracas, Venezuela

Registration/Certification

1989 / Professional Geologist / FL #853

Mr. Garcia is a Florida-registered Professional Geologist with over 33 years of experience in the environmental industry. His expertise includes environmental program management; preparation of Phase I and Phase II site assessments; soil and groundwater petroleum hydrocarbon contamination assessments; hazardous management; remedial evaluations; expert witness testimony on groundwater contamination; industrial and commercial real estate assessments; environmental impacts and permitting issues; natural resources evaluations; geologic investigations and hydrogeologic assessments; and Class V stormwater injection wells. He has managed and directed over 150 environmental assessment projects. Specific examples of his experience are described below.

AIG/DB Trucking: Project Manager for the site assessment activities for AIG – D&B Trucking accident inside the Women's Correctional Facility parking lot beneath I-95 in Miami-Dade County, Florida. A DB Trucking fuel tanker carrying 8,500 gallons of unleaded gasoline crashed while transitioning from SR 836 to Interstate 95 in Miami. Site activities included emergency response assessment and rigorous regulatory coordination.

USPS Blue Lagoon Post Office: Project Manager for the assessment and remediation of soil and groundwater contamination. This included free product removal, soil and solid waste removal, remedial system design and implementation for the USPS Blue Lagoon Post Office in Miami-Dade County, Florida. Site issues include assessment of contamination by arsenic, lead, chlorinated solvents and petroleum products, together with methane abatement.

Prudential Real Estate Investors, Anodyne NPL Site Zone 1 Remediation Activities: Project Manager for the assessment and remediation of the former Anodyne aluminum anodizing facility located in North Miami Beach, Florida. Project required

the preparation of a soil sampling and analysis plan, remedial action work plan and quality assurance/quality control plan for the CERCLA Zone 1 remediation activities.

Westar Service Station Contamination Assessment: Served as Project Manager for the Site Contamination Assessment of the Westar Service Station in Miami-Dade County, Florida.

Aljoma Lumber, Inc. Metal Assessment: Served as Project Manager for arsenic and chromium contamination assessment including document collection, contingency plan preparation and staff training for Aljoma Lumber, Inc., Medley, Florida.

Petro Processors Hazardous Waste Site Investigation: Served as Project Manager for a hazardous waste groundwater assessment at a waste petroleum reprocessing plant in Pembroke Pines, Florida.

Phase I Environmental Site Assessments: Project Manager for a Phase I Environmental Site Assessments at Homestead Park of Commerce, 223 Washington Avenue, 261 Parkway St., 111 S. Homestead Blvd. and 43 NE 16th St.

Environmental Audits: Project Manager completing Environmental Audits for real estate transactions, to determine the presence and extent of potential environmental liabilities prior to acquisition of properties. Included audits on numerous residential, commercial and industrial sites throughout Florida.

FDOT District VI Reasonable Assurance Reports - S.R. A1A (Collins Avenue) and Bal Bay Drive, Baker's Haulover Cut., Bal Harbour: Project Manager and Principal Geologist for the Reasonable Assurance Reports.

FDOT District VI Reasonable Assurance Reports for; S.R. A1A (Collins Avenue) from 7th Street to 15th Street; Miami Beach: Project Manager and Principal Geologist for the Reasonable Assurance Report.

FDOT District VI Reasonable Assurance Reports for NW 42nd Court and NW 20th Street from SW 12th Avenue to SW 17th Road, Miami: Project Manager and Principal Geologist for the Reasonable Assurance Report.

FDOT District VI Reasonable Assurance Report for S.R. 922 (NE 123rd Street).From NE 18th Avenue to East of N. Bay Shore Drive, Miami: Project Manager and Principal Geologist for the Reasonable Assurance Report

FDOT District VI Reasonable Assurance Reports for Biscayne Boulevard (SR 5) from NE 13th Street to NE 37th Street, Miami: Project Manager and Principal Geologist,

FDOT District VI Reasonable Assurance Reports for Coral Way (SR 972) From SW 12th Avenue to SW 17th Road, Miami: Project Manager and Principal Geologist,

FDOT District VI Reasonable Assurance Reports for Brickell Avenue & SE 12th Street, Miami: Project Manager and Principal Geologist.

FDOT District VI Reasonable Assurance Reports for S.R. 907 (63rd Street) and Allison Road, Miami: Project Manager and Principal Geologist.

Florida Gas Transmission, LLC, 24-inch Miami Lateral Relocation: Sr. Scientist for the dewatering activities within groundwater contaminated areas, Miami.

Florida Gas Transmission, LLC, Loop 11 Contamination Assessment and Dewatering Activities: Principal Investigator and Manager for the contamination assessments and dewatering activities for the construction of the 48-inch Loop 11 pipeline, Miami-Dade County.

Florida Gas Transmission, LLC, Port Everglades 16-inch Lateral Relocation: Principal Investigator and Manager for the contamination assessments and dewatering activities for the construction of the 48-inch Loop 11 pipeline, Miami-Dade County.

Florida Gas Transmission, LLC, 12-inch Miami and 6-inch Hialeah Lateral Relocation: Principal Investigator and Manager for the contamination assessments and dewatering activities for the construction of the 48-inch Loop 11 pipeline, Miami-Dade County.

Florida City Gas, 6-inch Homestead Line Relocation: Project Manager for the contamination assessment and dewatering activities for the relocation of the 6-inch Homestead Line.

Litigation Support:

- Provided Environmental Litigation support for Petroleum Reimbursement Programs at MIA.
- Provided litigation support and depositions during pre-trial hearings for the evaluation of 270 underground storage tank sites in Florida.
- Provided litigation support and depositions during pre-trial hearings for the evaluation of groundwater contamination at a bulk fuel distribution terminal in Homestead, Florida.
- Provided litigation support and expert witness testimony during the trial for the DNAPL (chlorinated solvent discharges) contamination assessment, for a private client in Florida.
- Provided litigation support and depositions during pre-trial hearings regarding the effects of improper waste paint disposal on groundwater quality at a paint/pigment manufacturing facility in Tampa, Florida.



Areas of Expertise

Contamination Assessment Reports; Site Assessment Reports; Sampling and Analytical Testing; Excavation and Drilling; Transportation and Disposal of Hazardous and Non-Hazardous Materials and Wastes; Remediation; and, Permitting

Years of Experience

With URS: 8 | With Others: 6

Education

MS/2007/Environmental Science/Florida International University
BS/2000/Mining Engineering/ Fundacion Universidad del Area Andina, Bogota, Colombia, S.A.

Training/Certifications

OSHA 40-Hour HAZWOPER
2006/CPR and Standard First Aid
2006/FDEP Erosion and Sedimentation Control

Mr. Terselich is a Senior Environmental Scientist with over 14 years of practical experience performing soil and groundwater contamination assessment, monitoring, and remediation projects using a phased Risk Based Corrective Action approach providing cost effective site management and remediation while protecting human health and the environment. Experience in both conducting field operations and writing technical reports for various types (Petroleum, Arsenic, PAHs) of contaminated high-profile sites in South Florida under strict regulatory controls.

Fully bilingual in English and Spanish, comfortable working in multi-cultural settings creating excellent team relations and communicating clearly and frequently with regulatory agencies, consultants, and clients. Specific examples of his experience are described below.

Environmental Site Lead, City of Miami, Douglas Park - Former Incinerator Ash Landfill Assessment: Currently conducting assessment of soil, groundwater, and methane at the former ash fill site (Douglas Park) for the City of Miami. Responsibilities include the supervision of soil borings, trenching, monitoring well and methane probe installation, and associated sampling and reporting.

Environmental Site Lead, Virginia Key Landfill Assessment: Current Field Scientist conducting trenching and monitoring well and methane probe installation at the Virginia Key Landfill.

Staff Scientist, \$3 Million Professional Services Agreement with Miami-Dade County DERM: Staff Scientist for projects including hazardous and non-hazardous waste site investigations, oversight of construction activities, contamination assessment plans, remedial action plans, and source removal plans. Projects include an Ammonia Background Study for Chapman Field Park, Methane Gas Assessment and Management System for Ives Estates Park, Methane Gas

Monitoring at Westwind Lakes and Gwen Cherry Parks, and Soil Pile Sampling at Westwind Lakes among others.

Details regarding select DERM assignments include:

Concourse "C" Source Removal Oversight, Reporting and Sampling: Staff Scientist for source removal oversight services at Concourse "C" at Miami International Airport (MIA).

Miami International Airport Fire Well Capacity Testing: Staff Scientist for capacity tests of five (5) fire wells at the tank farm located at Miami International Airport (MIA).

Miami International Airport North West Cargo Area Deep Well Installation and Monitoring: Staff Scientist for preparation and submittal of a monitoring well sampling plan, installation oversight of deep monitoring wells at various depths in order to delineate the deep-zone chlorinated solvent contamination at Miami International Airport (MIA). Currently serving as staff scientist providing semi-annual groundwater monitoring of select monitoring wells onsite.

Miami International Airport West End Cargo Area Building 2064 Assessment: Staff Scientist supporting ongoing assessment and monitoring activities at Building 2064 in the West End Cargo Area of Miami International Airport (MIA).

Miami International Airport West End Cargo Area Pond Assessment and Source Removal: Staff Scientist supporting ongoing assessment, source removal and monitoring activities at the West End Cargo Area Pond of Miami International Airport (MIA).

MDAD CSX Parcels A-D Assessment: Staff Scientist supporting ongoing assessment and monitoring activities for arsenic and petroleum contaminated soil and groundwater at the MDAD CSX site.

Venevision Studio Limited Site Assessment: Staff Scientist supporting the delineation of soil contamination at the MDT property adjacent to Venevision Studios in the vicinity of 7500 NW 72 Avenue in Medley. Assisting with Restrictive Covenant and No Further Action with conditions proposal to DERM which addresses contaminated soils left in place.

Chapman Field Groundwater Sampling and Monitoring Well Rehabilitation/Repair and Installation: Staff Scientist supporting the location and integrity testing of 22 existing groundwater monitoring wells located throughout the park; many of which were located within dense vegetation where access was limited. Assisted in the development of a detailed report outlining recommendations for well repair or replacement, in addition to a sampling plan. Subsequently, assisted with the groundwater assessment at the park after the monitoring well rehabilitation. Additionally, supported an ammonia background study which included the installation of 10 monitoring wells in the areas not impacted by the site. Currently supporting annual groundwater monitoring onsite.

Ives Estate Park / Former Ojus Landfill: Staff Scientist supporting the groundwater and methane gas monitoring at Ives Estate Park. Providing emergency response to the methane gas monitors and ongoing monitoring of on-site and off-site well where ammonia impacts have been found. Currently, quarterly monitoring of cluster well installed as part of a pilot test is ongoing to determine if active treatment of groundwater is needed.

Westwind Lakes Park O&M and Methane Gas Monitoring: Staff Scientist supporting the design, construction oversight, startup, operation and maintenance of a passive methane gas mitigation system for the recreation center building at the Park.

Limited Site Assessment for WASD Distribution Yard: Staff Scientist supporting the limited site assessment as part of a Site Rehabilitation Completion Order (SRCO) Rescission Request for the Distribution Yard. The limited assessment consisted of the installation of sampling of one soil boring and one monitoring well adjacent to the former canopy footer excavation and the preparation and submittal of SRCO request report.

Additional Relevant Experience Includes:

Environmental Engineer, Former Dollar Rent-A-Car Facility Tank Closure Assessment, Remediation and Monitoring: Developed and implemented remedial action plans for soil and groundwater contamination at a former Dollar service facility at Fort Lauderdale International Airport including removal of USTs, excavation, removal and disposal of soil, groundwater remediation by air-sparging, and continued groundwater monitoring.

Environmental Scientist, Coral Gables Country Club Fuel Tank Contamination Assessment and Remediation: Served as Environmental Scientist providing the delineation of contamination plume for a diesel leak from a former UST which included the installation and sampling of soil borings and groundwater monitoring wells. Also coordinated and supervised the excavation and source removal of contaminated soil and groundwater. Reports written include Site Assessment and Source Removal Reports and Addendums.

Environmental Scientist, Coral Gables Stack Incinerator Demolition Assessment: Served as Environmental Scientist providing the assessment of former incinerator facility. The assessment included the installation and sampling of soil borings and monitoring wells for metals and dioxins/furans which resulted from the former incinerator. Also sampling and delineation of a former Oil/Water Separator, source removal and continued groundwater monitoring.

Environmental Scientist, City of Coral Gables Biltmore Golf Course Assessment and Remediation: As Environmental Scientist, implemented an environmental assessment investigation for soil and groundwater arsenic contamination at

the Biltmore Golf Course. Developed a Remediation Assessment Plan for the arsenic contamination.

Site Inspector, GE Level 1 and Level 2 Environmental Assessments: Served as Site Inspector for over 50 properties located throughout Southeast and Southwest Florida. Mr. Terselich conducted regulatory review and interviewed property owners/managers as well as physically inspected the properties and their facilities for potential contamination.

Staff Scientist, City of Miami Gardens, Level 1 and Level 2 Assessments: Served as Staff Scientist conducting Level 1 and Level 2 Assessments of various properties for the City of Miami Gardens. Level 2 Assessments involved the sampling and testing of soil and groundwater to determine the presence or absence of contamination.

Environmental Scientist, C-111 Spreader Canal Phase I/II Environmental Site Assessment – Environmental Engineer: Conducted environmental investigation for soil contamination in 6,770 acres of wetlands and former agricultural land located in the Southern Everglades in Florida for the SFWMD as part of the Comprehensive Everglades Restoration Plan. Other environmental assessment projects in natural park areas and former agricultural land include: Frog Pond (500 acres), Belle Meade (750 acres), and Berry Groves (1,000 acres).

Field Lead Manager, Environmental Impact Assessment for AES La Union Coal Generated Power Plant Ash Landfill, El Salvador: Provided coordination of logistics and supervision of two simultaneous drill rigs and crews for the installation of 8 geotechnical soil borings, 25 test pits, 4 groundwater monitoring wells and 4 environmental soil borings. Responsibilities included soil, surface and groundwater sampling activities associated with the geotechnical and environmental impact assessment. Conducted hydrologic conductivity testing of the monitoring wells installed. Also provided support for URS teams conducting geotechnical analysis and landfill design, noise and air quality sampling, and ecology/biology assessment.

Sr. Environmental Scientist, Howard Air Force Base, Phase I Environmental Site Assessment for London & Regional, Panama: Served as Senior Environmental Scientist conducting Phase I ESA for the airport area of the former US Howard Air Force Base. The assessment involved field observations and interviews for the entire airport section (308 hectares) consisting of a runway, taxiways and ramps, jet fueling areas, hangars, hazardous waste storage, natural areas, fire fighter burn pool training area, a shooting range, and terminals among other associated buildings and facilities.

6.0 Related Experience and References

Hollywood Incinerator Ash Dump, Hollywood, FL

Reference: Vielka I. Quintero, MBA, 954.921.3388, vquintero@hollywoodfl.org

URS was retained by the City of Hollywood to complete an environmental assessment of an old municipal incinerator ash dump in accordance with the new requirements of Chapter 62-780, FAC. These requirements are consistent with the requirements of Chapters 62-770, 62-782 and 62-785, FAC and the environmental assessment and remediation of Chapter 24, Miami-Dade County Code. The HIAD site is located approximately one mile west of I-95 near the northwest corner of South Park Road and Pembroke Road. The City has owned this property since 1963, and operated an incinerator with a capacity to burn 450 tons per day of municipal solid waste operated on the property from 1958 through 1973. From about 1958 to 1963, the ash from the incinerator was disposed of at area landfills. After the rock pit to the north of the property was filled with brush and vegetative debris, the ash from the incinerator was spread on top. Currently, the excavation has been completely filled with waste ash, and other waste material. The assessment included completion of a geophysical mapping survey to delineate the foot print of the landfill, installation of a series of shallow and deep monitoring wells, collecting soil and groundwater samples for priority pollutants including dioxins, and recommending future redevelopment alternatives for beneficial use of the property based on risk based corrective action strategies allowed pursuant to state and local environmental regulations. URS completed the environmental assessment within the timeframes and budget authorized by the City, and is currently working with the City planners to develop the former landfill for beneficial reuse. The Site has now been designated as a Brownfields for redevelopment purposes.



Project Team: Dan Levy, PG, PIC; Vik Kamath, PE, Senior Project Manager; Pavel Terselich, Environmental Scientist



Ives Estates Park/Former Ojus Landfill, Miami, FL

Reference: Ms. Li Gurau, 305.755.7834, gurau@miamidade.gov

Miami-Dade County's Ives Estates Park is being redeveloped by the Parks, Recreation and Open Spaces Department (PROS) on top of the previous Ojus Landfill, a former unlined municipal solid waste landfill that was used by the City of Miami Beach until the 70's. The Ojus landfill, which covered approximately 40-acres, was closed in '78 in accordance with state and county environmental regulations at that time. The new Ives Estate Park is being redeveloped in three phases to include lighted athletic fields, field centers and maintenance buildings, tot-lots, bike paths, paved access roads, pathways and parking areas, and open landscaped areas. With the Phase I Youth Sports Complex and Phase II Roadway and Access Improvements completed, the Phase III Adult Sports Complex was placed on hold in December 2013 due to budgetary constraints. Since 2006, URS has been assisting DERM and PROS with the full line of environmental services necessary to redevelop the former landfill into a safe local community park. As a preliminary step, URS provided methane gas assessments in the areas of the former landfill which were planned for future redevelopment. URS then provided design, construction, operations and maintenance of a landfill gas mitigation system for the Youth Complex which was constructed in 2008. Currently, operations & maintenance, monitoring and emergency response services are currently ongoing as the facility was equipped with sensors which trigger auto dialer alarms when high levels of methane gas are present. Comprehensive groundwater monitoring services were provided for the entire former landfill site. Ongoing since 2008, the monitoring includes on-site and off-site wells where ammonia impacts have been found. A pilot test for ammonia treatment of groundwater impacts present near the northeast corner of the landfill property provided valuable data for the final remedy based on life-cycle analysis of three alternatives that were found to be technically feasible. Currently, quarterly monitoring of cluster well installed as part of the pilot test is ongoing to determine if active treatment of groundwater is needed.

Project Team: Vik Kamath, PE; Paula Sessions, PG, and Pavel Terselich



Virginia Key Landfill Site Assessment and Closure / Virginia Key, FL

Reference: Mr. Asok Ganguli, 305.514.6647, asok@miamidade.gov

URS is providing environmental investigation services related to the closure of this 110 acre landfill. URS provided groundwater assessment including the installation and sampling of new shallow, intermediate and deep monitoring wells; installation and monitoring of methane gas probes; trenching to determine the extent of solid waste at the landfill perimeter; topographic survey of the landfill; and preparation of a 10 percent closure design criteria document to include a stormwater management system that will not adversely affect the existing solid waste or groundwater contamination; grading and sloping of the landfill cover system, preparation of a closure cost estimate and project technical specifications. Additional services to be provided for this project include aquifer testing and groundwater modeling; closure design documents and remedial action plan for groundwater recovery system at the 30%, 60% and 90% design levels; permitting services; construction cost estimating and support during Value Engineering; bid phase services including preparation of scope of work in accordance with approved remedial action plan for groundwater, landfill closure design documents, and technical specifications; and providing construction oversight and engineer of record services during landfill closure. In addition to the services previously listed, URS maintains consistent communication with the client by providing weekly email updates every Friday and providing periodic updates to the project schedule and attending meeting with the client as needed.

Project Team: Paula Sessions, PG; Dan Levy, PG; Vik Kamath, PE; Carlos F. Garcia, PG; Pavel Terselich; Edward Marks, PG



Douglas Park Environmental and Geotechnical Investigation, Miami, FL

Reference: Mr. Jeovanny Rodriguez, PE; Tel: 305-416-1225; jeovannyrodriguez@miamigov.com

The Park property was historically known as the Tousey Rock Pit. Per limited historical information made available to URS, the City Commission adopted a resolution on July 13, 1938, setting aside the Tousey Rock Pit Tract for the “municipal purpose of dumping and burning of trash and rubbish.” A review of limited aerial photographs provided by the City appears to indicate that the Park was under development in 1961.

Based on the results of our field investigation that consisted of geotechnical and environmental soil boring logs, on January 30, 2014, URS submitted a Solid Waste Delineation Report. The results of the test pit and soil boring data collected indicate evidence of trash, half burnt or decomposed tires, construction and demolition debris, and unrecognizable burnt material or residues below the surficial and intermediate layers. Molten pieces of glass were also observed in the surficial layer. Additional field samples for soil, groundwater and methane gas samples collected in April and May 2014. Based on field observations and the analytical data, several environmental issues were identified in the surface and sub-surface soil layers. A comprehensive environmental site assessment report was approved by DERM on August 5, 2014.

URS will be working with the City of Miami to develop a Risk-Based Corrective Action Plan to possibly open the Park in phases based on the risks noted from the assessment work we completed.

Project Team: Dan Levy, PG, PIC; Vik Kamath, PE, Senior Project Manager; Pavel Terselich, Environmental Scientist



Drilling Rig in Operation (L) and samples of geotechnical soil borings (R)

Former Munisport Landfill (Biscayne Landing Redevelopment Project) North Miami, FL

Reference: Mr. Daryl Lee Tel: 786.629.3134 (Note: Contact was Project Manager with the original developer that is no longer available)

As part of a mixed-use redevelopment project that evolved from a joint public-private partnership agreement between the City of North Miami and Biscayne Landing, LLC, URS provided professional ecological services for the Biscayne Landing development project.

Geotechnical Services: Geotechnical design services provided by URS included the performance of over 45 soil borings varying from 35 to 120 feet deep located across the site at the designated locations for buildings and in support of infrastructure design and construction for the project. Development structures varied in height from one to two-story retail and fitness center structures, three to four story townhomes, four to five story garage structures, 12 to 14 story office/residential/retail structures and up to 25 story condominium high rises. Additionally, elevated roadway systems and major retaining wall structures are needed to traverse the elevated landfill terrain and to provide drainage basin areas for stormwater retention.

Landfill debris poses significant issues to the geotechnical design of building foundations and infrastructure. Buildings will be supported on Augered Cast-In-Place piles and Dynamic Compaction is being used to densify the landfill debris in infrastructure and roadway easements.

URS provided detailed recommendations for deep foundation designs for structures consisting of Augered Cast-In-Place (ACIP) piling and Drilled Shafts including vertical and lateral load capacities for various sizes and depths of foundations. URS also provided detailed recommendations for ground improvement options in landfilled areas consisting of VibroFloatation Compaction and VibroFloatation Stone Column Replacement, Dynamic Compaction and Surcharging

Environmental Engineering: Other assignments included environmental engineering for establishing wetland delineation lines, wetland monitoring and coordination of geotechnical and survey support services.

Ecological Services at the Biscayne Landing development project include the following activities to comply with the regulatory requirements of the South Florida Water Management District (SFWMD), Florida Department of Environmental Protection (FDEP), United States Army Corp of Engineers (USACE), and Miami-Dade County Department of Environmental Resources Management (DERM):

- Environmental monitoring of a 0.79-acre upland buffer/wetland preservation area
- Environmental monitoring of a 0.9-acre off-site wetland mitigation restoration area
- Baseline and follow-up monitoring of a 32-acre adjacent off-site mangrove wetland enhancement/mitigation area bordering the eastern boundary of the site
- Wetland Jurisdictional Determination using the USACE Wetlands Delineation Manual, Technical Report Y-87-1, January 1987, and Chapter 62-340, FAC.
- Miscellaneous Environmental Permitting services related to:
 - o USACOE Permits FDEP Environmental Resources Permit
 - o DERM Class I Coastal Construction Permit
 - o DERM Class II/VI Drainage Permit
 - o DERM Class IV Freshwater Wetlands Permit
 - o DERM Tree Removal Permit
 - o Wildlife Surveys
 - o Wetland Functionality Assessments
 - o Post-permit Compliance



Rendering of Condominium Towers that were proposed

Project Team: Robert Zuccaro PE; Brett Oldford, PE; Tom Mullin, PE; Vik Kamath, PE

7.0 Schedule and Availability

URS' workload maintains a steady, manageable level because our size and repeated successful teaming with long-time subcontracting partners affords us the valuable commodity of flexible staffing in response to our clients' needs. We anticipate that a large percentage of our work will continue to come from repeat clients throughout the coming year. Our staff of highly qualified professionals and technicians is of sufficient depth and breadth that we can, as necessary, immediately assign additional staff on short notice to meet any unforeseen manpower requirements without sacrificing the quality of our work. This strength is what makes URS ideally suited to undertake this contract. We have consistently demonstrated our ability to perform technically demanding assignments of all sizes within strict time frames, allowing for client and regulatory review.

Ability to Handle Scope of Services

URS considers this project to be of the utmost importance, and we are fully committed to giving it the top-priority attention it demands and deserves. We are making the following commitments to the City of Hollywood:

- **Project Manager Commitment:** We recognize the important role of the Project Manager in maintaining

work flow and meeting production deadlines, and we are committing to the City of Hollywood that this contract will be a top priority of the Project Manager.

- **Highly Qualified Project Technical Team:** We have chosen our most highly qualified professionals in every discipline, and we are prepared to commit them to the City of Hollywood on a priority basis.
- **Staff Redundancy:** We have provided back-up staffing in all key areas to facilitate the handling of multiple tasks within some technical disciplines.
- **Prioritization of Assignments:** Our technical support and specialty teams will be committed to the project when their expertise is required for as long as it takes to complete their work. These people have conducted a host of projects on a similar basis state-wide, and are accustomed to mobilizing to and working at remote project sites.

The following table shows the percent availability of our project team.

Key Team Personnel	Role	Percent Available
Vivek "Vik" Kamath, PE	Project Manager	70
Robert B. Wallace, PE	Technical Advisor	20
Daniel J. Levy, PG	Principal-in-Charge	20
Paula Sessions, PG	QA/QC Officer	30
Edward Marks, PG	Health & Safety Officer	20
Sarah Rubin, CHMM	Brownfields Services	30
Andrea Bohmholdt	Economic Analysis	40
Gary Garfield, PE	Environmental Engineering	45
Michael Sharp, PE	Geotechnical Engineering	35
Beth Keister, PE	Solid Waste Characterization	45
Robert Cooper	Solid Waste Characterization	50
James Garrison, PhD	Human Health Assessment	40
Carlos F. Garcia, PG	Hydrogeology	40
Pavel Terselich	Field Services	60

8.0 References

Project Name: **South Park Road Redevelopment Project (aka HIAD), Hollywood, Florida**

URS Project Manager: Vik Kamath

Reference Contact:

Ms. Vielka Quintero, MBA

Economic Development Representative

Department of Community and Economic Development

2600 Hollywood Blvd., Room 203

Hollywood, FL 33022-9045

Tel: (954) 921-3388

E-mail: vquintero@hollywoodfl.org

Alternate contact: Kee Eng (keng@hollywoodfl.org)

Project Name: **Virginia Key Landfill, Miami, Florida**

URS Project Manager: Vik Kamath

Reference Contact:

Mr. Asok Ganguli

Assistant Director

Miami-Dade County

Public Works & Waste Management Department

Dr. Martin Luther King, Jr. Office Plaza,

2525 NW 62nd Street, 5th Floor, Miami, FL 33147

Tel: 305-514-6627

E-mail: ASOK@miamidade.gov

Project Name: **Ives Estates Park/Former Ojus Landfill, Miami-Dade County**

URS Project Manager: Vik Kamath

Reference Contact:

Dr. Li Gurau, PE, LEED®AP BD+C

Section Head, Engineering Section

Capital Programs Division

Miami-Dade County Parks, Recreation and Open Spaces

275 NW 2nd Street, Miami, FL 33128

Tel: 305-755-7834

E-mail: Gurau@miamidade.gov

Project Name: **Douglas Park Environmental Assessment Report**

URS Project Manager: Vik Kamath

Reference Contact:

Mr. Jeovanny Rodriguez, P.E.

Assistant Director

Capital Improvement Program

City of Miami

444 SW 2nd Ave, 8th Floor

Miami, FL 33130

Tel: 305-416-1225

E-mail: jeovannyrodriguez@miamigov.com

Project Name: **Immokalee Landfill No. 1 Geotechnical/Waste Characterization Study**

URS Project Manager: Vik Kamath

Reference Contact:

Mr. Dayne Atkinson

Senior Project Manager

Collier County Solid and Hazardous Waste Management Department

3327 Tamiami Trail East

Naples, Florida 34112-4901

Tel: 239-252-5337

E-Mail: DayneAtkinson@colliergov.net

9.0 Administrative Information

SF 330

ARCHITECT – ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER (if any)		
PART II – GENERAL QUALIFICATIONS						
(If a firm has branch offices, complete for each specific branch office seeking work.)						
2a. FIRM (OR BRANCH OFFICE) NAME URS Corporation Southern			3. YEAR ESTABLISHED 1981		4. DUNS NUMBER 04-628-5110	
2b. STREET 7650 Corporate Center Drive, Suite 400			5. OWNERSHIP a. TYPE Corporation			
2c. CITY Miami		2d. STATE FL	b. SMALL BUSINESS STATUS			
2e. ZIP CODE 33126		7. NAME OF FIRM (if block 2a is branch office) URS Corporation Southern				
5a. POINT OF CONTACT NAME AND TITLE Carlos Garcia, PE, Vice President and Office Manager			6b. E-MAIL ADDRESS Carlos.Garcia@URS.com			
6a. TELEPHONE NUMBER 305-262-7466			8a. FORMER FIRM NAME(S) (if any)			
8b. YR. ESTABLISHED			8c. DUNS NUMBER			
9. EMPLOYEES BY DISCIPLINE						
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
(1) FIRM	(2) BRANCH					
02	Administrative	3,250	4	A05	Airports; Navajids; Airport Lghtg. Aircraft Fueling	1
06	Architect	307	4	A09	Anti-Terrorism/Force Protection	1
07	Biologist	148	1	C14	Conservation and Resource Management	6
12	Civil Engineer	1921	12	C15	Construction Management	5
15	Construction Inspector	664	4	C18	Cost Estimating; Engineering & Analysis	1
16	Construction Manager	607	6	D08	Dredging Studies and Design	2
21	Electrical Engineer	1,508	1	E01	Ecological & Archeological Investigations	4
24	Environmental Scientist	1,280	8	E09	EIS: Assessments or Statements	3
29	GIS Specialist	238	2	E11	Environmental Planning	2
30	Geologist	533	4	E12	Environmental Remediation	6
42	Mechanical Engineer	786	2	E13	Environmental Testing and Analysis	3
48	Project Manager	2,636	10	G04	GIS: Dev., Analysis, & Data Collection	1
57	Structural Engineer	905	8	H07	Hwys.; Streets; Airfield Pav.; Prkg. Lots	6
58	Technician/Analyst	157	5	P04	Pipelines (Cross Country – Liquid Natural Gas)	1
60	Transportation Engineer	928	8	P08	Prisons & Correctional Facilities	4
	Emergency Management	99	2	P11	Postal Facilities	1
	Hazardous Waste Manager	247	5	R04	Recreational Facilities (Parks, Marinas, etc)	4
	Planner-Transportation	202	3	R11	Rivers; Canals; Waterways; Flood Control	2
	Public Involvement Specialist	144	1	S09	Structural Design; Special Structures	6
	Marketing/Proposal Specialist	375	1	W02	Water Resources; Hydrol.; Grnd. Water	4
	Other Employees	36,167	0			
Total		53,102	91			
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)				PROFESSIONAL SERVICES REVENUE INDEX NUMBER		
a. Federal Work	6	1. Less than \$100,000		6. \$2 million to less than \$5 million		
b. Non-Federal Work	8	2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million		
c. Total Work	8	3. \$250,000 to less than \$500,000		8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million		9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million		10. \$50 million or greater		
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.						
a. SIGNATURE 				b. DATE 8/14/2014		
c. NAME AND TITLE Carlos Garcia, PE - Vice President / South Florida Office Manager						

Certificates of Authorization

State of Florida
Board of Professional Engineers
Attests that
URS Corporation Southern

is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.
Expiration: 2/28/2015
Audit No: 228201501700

Certificate of Authorization
CA Lic. No: 2

Engineering

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN

LICENSE NUMBER
AAC000001

The ARCHITECT CORPORATION
Named below IS CERTIFIED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2015

URS CORPORATION SOUTHERN
600 MONTGOMERY ST
25TH FLOOR
SAN FRANCISCO CA 94111

RICK SCOTT GOVERNOR
ISSUED: 03/04/2013 SEQ # L130304000904
DISPLAY AS REQUIRED BY LAW
KEN LAWSON SECRETARY

Architecture

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

LICENSE NUMBER
LCC000034

The LANDSCAPE ARCHITECT BUSINESS
Named below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2015

URS CORPORATION SOUTHERN
600 MONTGOMERY ST
25TH FLOOR
SAN FRANCISCO CA 94111

RICK SCOTT GOVERNOR
ISSUED: 10/28/2013 SEQ # L1310230001870
DISPLAY AS REQUIRED BY LAW
KEN LAWSON SECRETARY

Landscape Architecture

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No.: LB6839
Expiration Date: February 28, 2013

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

URS CORPORATION SOUTHERN
600 MONTGOMERY ST FL 25
SAN FRANCISCO, CA 94111-2727

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

Surveying and Mapping

State of Florida Department of State

I certify from the records of this office that URS CORPORATION SOUTHERN is a California corporation authorized to transact business in the State of Florida, qualified on April 9, 1981.

The document number of this corporation is 848780.

I further certify that said corporation has paid all fees due this office through December 31, 2014, that its most recent annual report/uniform business report was filed on January 2, 2014, and its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Third day of January, 2014



Ken Detjen
Secretary of State

Authentication ID: CU2199175317

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.

<https://efile.sunbiz.org/certaindiver.html>

Corporate Certification

RICK SCOTT, GOVERNOR
KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS

LICENSE NUMBER
GB327

The GEOLOGY BUSINESS
Named below IS CERTIFIED
Under the provisions of Chapter 492 FS.
Expiration date: JUL 31, 2016

URS CORPORATION SOUTHERN
600 MONTGOMERY ST
25TH FLOOR
SAN FRANCISCO CA 94111-2727

ISSUED: 06/26/2014
DISPLAY AS REQUIRED BY LAW
SEQ # L1405260001442

Geology

4:21:42 PM 8/14/2014

Licensee Details

Licensee Information

Name: **KAMATH, VIVEK SANJIV (Primary Name)**
(DBA Name)
Main Address: **9554 NEWPORT ROAD**
BOCA RATON Florida 334342849
County: **PALM BEACH**
License Mailing:
LicenseLocation:

License Information

License Type: **Professional Engineer**
Rank: **Prof Engineer**
License Number: **42618**
Status: **Current,Active**
Licensure Date: **02/22/1990**
Expires: **02/28/2015**

Special Qualifications Qualification Effective

[View Related License Information](#)

[View License Complaint](#)

1940 North Monroe Street, Tallahassee FL 32399 :: Email: [Customer Contact Center](#) :: Customer Contact Center: 850.487.1395

The State of Florida is an AA/EEO employer. [Copyright 2007-2010 State of Florida. Privacy Statement](#)

Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S., must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. Please see our [Chapter 455](#) page to determine if you are affected by this change.

Indicate whether the proposing Firm has ever had a contract/agreement relationship terminated/cancelled/suspended. If so, what were the reasons, and what was the ultimate outcome?

The proposing firm has never had a contract/agreement or relationship terminated, cancelled or suspended.

Indicate whether proposing firm has ever filed an administrative or judicial action with any state agency or state court. If so, what were the grounds/reasons, and what was the ultimate outcome? List all legal proceedings your firm has been involved in over the past 10 years.

As with any national professional service organization the size of URS Corporation, from time to time it is involved in legal proceedings. URS has substantial liability insurance to protect itself from such proceedings. Additionally, the Company has substantial assets, including liquid assets of several million dollars. Various legal proceedings are pending against the Company or its subsidiaries alleging breaches of contract or negligence in connection with the performance of professional services. Although the outcome of these proceedings cannot be predicted with certainty and no assurances can be provided, based on the Company's previous experience in such matters, the Company's management does not believe that any of these proceedings, individually or collectively, are likely to exceed established reserves or insurance coverage. Therefore, the Company does not believe that the Company's legal proceedings are likely to have a material adverse effect on the Company's consolidated financial position, results of operations, or cash flows.

Conflict of Interest

See attached form

Insurance Certificates

URS Corporation Southern's Insurance Certificates are shown on the following pages.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/23/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER MARSH RISK & INSURANCE SERVICES 345 CALIFORNIA STREET, SUITE 1300 CALIFORNIA LICENSE NO. 0437153 SAN FRANCISCO, CA 94104		CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL: ADDRESS:		FAX (A/C, No):
URS-CORP-ALL-PROF-13-15 Tam FL Eviden Added		INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED URS Corporation Southern 7650 West Courtney Campbell Causeway Tampa, FL 33607-1462		INSURER A : National Union Fire Ins Co Pittsburgh PA		19445
		INSURER B : Zurich American Insurance Company		16535
		INSURER C : Illinois National Ins Co		23817
		INSURER D : Insurance Company Of The State Of PA		19429
		INSURER E : Lexington Insurance Company		19437
		INSURER F : Lloyd's Of London & British Companies		15792

COVERAGES		CERTIFICATE NUMBER:		SEA-002344463-02		REVISION NUMBER: 7	
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.							
INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY ☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ XCU, BFPD ☒ Contractual Liability GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PROJECT ☐ LOC			GL 5142592	09/01/2013	09/01/2014	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ☐ NON-OWNED AUTOS			BAP938521504	09/01/2013	09/01/2014	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB ☐ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED ☐ RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	SEE ATTACHED - ACORD 101	01/01/2014	01/01/2015	☒ WC STATU- TORY LIMITS ☐ OTH- ER E.L. EACH ACCIDENT \$ 2,000,000 E.L. DISEASE - EA EMPLOYEE \$ 2,000,000 E.L. DISEASE - POLICY LIMIT \$ 2,000,000
E	Prof. Lieb w/Lmt'd Contractual			015438088	09/01/2013	09/01/2014	Each Claim \$2,000,000
F	Claims Made / Retro 11-17-1938			PP1307135	09/01/2013	09/01/2014	Aggregate \$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Evidence of Insurance

CERTIFICATE HOLDER Specimen	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE of Marsh Risk & Insurance Services Lynne Harrington <i>Lynne Harrington</i>
---------------------------------------	--

AGENCY CUSTOMER ID: URSCOR

LOC #: San Francisco



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY MARSH RISK & INSURANCE SERVICES		NAMED INSURED URS Corporation Southern 7690 West Courtney Campbell Causeway Tampa, FL 33607-1462
POLICY NUMBER		
CARRIER	NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

The Workers' Compensation coverage shown does not apply in monopolistic states. In the States of ND, OH, WA and WY Workers' Compensation coverage is provided by the State Fund. In those States, the above-referenced policies provide Stop-Gap Employers' Liability only. Workers Compensation policies apply as indicated below:

Insurer A: National Union Fire Ins Co Pittsburgh, PA NAIC# 19445100
WC 015656173 - CA

Insurer D: Insurance Company Of The State Of PA NAIC# 19429100
WC 015656175 - MA, WI (Stop Gap - ND, OH, WA, WY)
WC 015656176 - AK, AL, AR, AZ, CO, DE, GA, ID, KS, KY, MD, MN, MO, MS, MT, NC, NH, NM, NY, NV, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WV
WC 015656178 - ME

Insurer C: Illinois National Ins Co NAIC# 23817001
WC 015656174 - FL
WC 015656177 - CT, DC, HI, IA, IL, IN, LA, MI, NE, NJ

**ACKNOWLEDGMENT AND SIGNATURE PAGE**

This form must be completed and submitted by the date and the time of bid opening.

Legal Company Name (include d/b/a if applicable): Federal Tax Identification Number:

If Corporation - Date Incorporated/Organized:

State Incorporated/Organized:

Company Operating Address:

City: State: Zip Code:

Remittance Address (if different from ordering address):

City: State: Zip Code:

Company Contact Person: Email Address:

Phone Number (include area code): Fax Number (include area code):

Company's Internet Web Address:

IT IS HEREBY CERTIFIED AND AFFIRMED THAT THE BIDDER/PROPOSER CERTIFIES ACCEPTANCE OF THE TERMS, CONDITIONS, SPECIFICATIONS, ATTACHMENTS AND ANY ADDENDA. THE BIDDER/PROPOSER SHALL ACCEPT ANY AWARDS MADE AS A RESULT OF THIS SOLICITATION. BIDDER/PROPOSER FURTHER AGREES THAT PRICES QUOTED WILL REMAIN FIXED FOR THE PERIOD OF TIME STATED IN THE SOLICITATION.

Bidder/Proposer's Authorized Representative's Signature:  Date:

Type or Print Name:

THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF BIDDER/PROPOSER TO BE BOUND BY THE TERMS OF ITS PROPOSAL. FAILURE TO SIGN THIS SOLICITATION WHERE INDICATED BY AN AUTHORIZED REPRESENTATIVE SHALL RENDER THE BID/PROPOSAL NON-RESPONSIVE. THE CITY MAY, HOWEVER, IN ITS SOLE DISCRETION, ACCEPT ANY BID/PROPOSAL THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE BIDDER/PROPOSER TO THE TERMS OF ITS OFFER.

Bid/RFP/RFQ Number: RFQ-4427-14-IS Title: Environment Engineering Services

W-9(Rev. August 2013)
Department of the Treasury
Internal Revenue Service**Request for Taxpayer
Identification Number and
Certification****Give to the
requester. Do not
send to the IRS.**Print or
type
See
Specific
Instructions
on page 2.

Name (as shown on your income tax return)

URS Corporation Southern

Business name/disregarded entity name, if different from above

Check appropriate box for federal tax classification:

☐ Individual/sole proprietor ☒ C Corporation ☐ S Corporation ☐ Partnership☐ Trust/estate☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation,

P=partnership) *

☐ Other (see instructions)

Exemptions (see instructions):

Exempt payee code (if any)

Exemption from FATCA
reporting code (if any)

Address (number, street, and apt. or suite no.)

7650 NW 19th St., Suite 400

Requester's name and address (optional)

City, state, and ZIP code

Miami, FL 33126

List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Social security number

Employer identification number

59-2087895

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below), and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other

Sign HereSignature of
U.S. person

Date: 8/19/2014

General Instructions

Section references are to the Internal Revenue Code unless

withholding tax on foreign partners' share of effectively
connected income, and

**SOURCE OF INFORMATION**

How did you find out about this solicitation? Check all that apply.

- | | |
|---|---|
| 1. www.hollywoodfl.org | ☒ |
| 2. www.bidsync.com | ☐ |
| 3. Daily Business Review | ☐ |
| 4. The Miami Herald | ☐ |
| 5. Referral/word- of mouth | ☐ Specify Source: <input type="text"/> |
| 6. Search Engine/Internet search | ☐ |
| 7. E-mail, newsgroup, online chat | ☐ Specify Source: <input type="text"/> |
| 8. Banner or Link on another website | ☐ |
| 9. Flyer, newsletter, direct mail | ☐ Specify Source: <input type="text"/> |
| Other | ☐ Specify Source: <input type="text"/> |

Bid/RFP/RFQ Number: RFQ-4427-14-IS Title: Environment Engineering Services

Procurement Services Division
2600 Hollywood Boulevard, Room 303
Hollywood, Florida 33020

G. EQUAL EMPLOYMENT OPPORTUNITY

Proposer shall provide a written statement that it does not and will not discriminate against any person, employee, or applicant for employment, because of race, creed, color, religion, sex, national origin, ancestry, age or disability.

H. ADA COMPLIANCE

Persons with disabilities who require reasonable accommodation to participate in City programs and/or services may call the Equal Opportunity Manager, Office of Human Resources and Risk Management at (954) 921-3218 (voice). If an individual is hearing or speech impaired, please call Florida Relay Service 1-800-955-8771.

I. PUBLIC ENTITY CRIMES

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with public entity for the construction or repair of a public building or public work; may not submit bids, submissions, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

J. FORMS TO BE INCLUDED IN THIS SUBMISSION**JI. DECLARATION**

The aforementioned, as Proposer (herein used in the masculine singular, irrespective of actual gender and number) declares, under oath that no other person has any interest in this Proposal or in any resulting agreement to which this Proposal pertains, that this Proposal is made without connection or arrangement with any other persons and without collusion or fraud.

The Proposer further declares that he has complied in every respect with all the instructions to Proposers, that he has read all addenda, if any, issued prior to the opening of Submissions, and that he has satisfied himself fully relative to all matters and conditions with respect to the general conditions of the agreement and all relevant information to which this proposal pertains.

URS Corporation Southern
Company Name



Authorized Signature

Daniel J. Levy, PG
Print Name

J2. DISCLOSURE OF CONFLICT OF INTEREST

Each Proposer shall disclose below, to the best of his or her knowledge, any City of Hollywood officer or employee, or any relative of any such officer or employee as defined in Section 112.3135, Florida Statutes, who is an officer, partner, director or proprietor of, or has a material interest in the Proposer's business or its parent company, any subsidiary, or affiliated company, whether such City official or employee is in a position to influence this procurement or not.

Failure of a Proposer to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City of Hollywood Purchasing Ordinance.

Name	Relationship
None	
_____	_____
_____	_____

In the event the Proposer does not indicate any name, the City shall interpret this to mean that no such relationship exists.

J3. HOLD HARMLESS AND INDEMNITY CLAUSE/INSURANCE REQUIREMENTS:

URS Corporation Southern		Daniel J. Levy, PG
Company Name	Authorized Signature	Print Name

The Proposer and his representatives shall indemnify, defend and hold harmless the City of Hollywood, its elected and appointed officials, employees and agents for any and all suits, actions, legal or administrative proceedings, claims, damage, liabilities, interest, attorney's fees, costs of any kind whether arising prior to the start of activities or following the completion or acceptance and in any manner directly or indirectly caused, occasioned or contributed to in whole or in part by reason of any act, error or omission, fault or negligence whether active or passive by the contractor, or anyone acting under its direction, control, or on its behalf in connection with or incident to its performance of the contract.

URS Corporation Southern		Daniel J. Levy, PG
Company Name	Authorized Signature	Print Name

INSURANCE REQUIREMENTS

Proposer shall maintain, at its sole expense, during the term of this agreement the following insurances:

- A. **Commercial General Liability Insurance naming the City as an additional insured** with not less than the following limits:

General Aggregate	\$10,000,000
Products-Comp/Op Aggregate	\$10,000,000
Personal and Advertising Injury	\$ 5,000,000
Each Occurrence	\$ 5,000,000
Fire Damage	\$ 5,000,000

Coverage shall include contractual liability assumed under this agreement, products and completed operations, personal injury, broad form property damage, and premises-operations.

- B. Commercial Automobile Liability Insurance naming the City as an additional insured with not less than the following limits:

Combined Single Limit \$1,000,000

Coverage shall include contractual liability assumed under this agreement, owned, hired and non-owned vehicles.

Workers' Compensation:

- C. Workers' compensation insurance covering the contractor and the Contractor's employees with not less than the following limits:

Workers' Compensation \$100,000/500,000/100,000 for coverage

Please Note: The Certificate shall contain a provision that coverage afforded under the policy will not be cancelled until at least thirty (30) days prior written notice has been given to the City. Certificates of insurance, reflecting evidence of the required insurance, shall be provided to the City. In the event the Certificate of Insurance provided indicates that the insurance shall terminate and lapse during the period of this Agreement, the vendor shall furnish, at least thirty (30) days prior to the expiration of the date of such insurance, a renewed Certificate of Insurance as proof that equal and like coverage for the balance of the period of the Agreement or extension thereunder is in effect.

The insurance policy shall not contain any exceptions that would exclude coverage for risks that can be directly or reasonably related to the scope of goods or services in this bid/proposal. A violation of this requirement at any time during the term, or any extension thereof shall be grounds for the immediate termination of any contract entered in to pursuant to this bid/proposal. In order to show that this requirement has been met, along with an insurance declaration sheet demonstrating the existence of a valid policy of insurance meeting the requirements of this bid/proposal, the successful proposer must submit a signed statement from insurance agency of record that the full policy contains no such exception.

The City reserves the right to require additional insurance in order to meet the full value of the contract.

The City reserves the right to require any other insurance coverage it deems necessary depending upon the exposures.

The Proposer further certifies that it will meet all insurance requirements of the City of Hollywood and agrees to produce valid, timely certificates of coverage.

J4. FINANCIAL DISCLOSURE AND PROFESSIONAL INFORMATION (Attach additional pages as necessary)

NOTE: It is the responsibility of each Proposer to redact all information (i.e., social security numbers and bank account numbers) that is not specifically required to be submitted and is not exempt from the mandatory disclosure requirements of the Public Records Law.

PROPOSER'S FINANCIAL DATA

Financial Statement

Proposer, owner-corporations of Proposer, and any person or business entity guaranteeing the performance of the Proposer must attach audited financial statements for the most recent Fiscal Year end, prepared in accordance with generally accepted accounting principles.

Surety Information

Has any surety or bonding company ever been required to perform upon Proposer's default or any entity previously owned or controlled by Proposer? Yes () No ()

If yes, attach a statement naming the surety or bonding company, date, amount of bond, and the circumstances surrounding said default and performance.

Bankruptcy Information

Has Proposer or any entity previously owned or controlled by Proposer ever been declared bankrupt? Yes () No (X)

If yes, state date, court jurisdiction, amount of liabilities, and amount of assets.

Pending Litigation

Provide on attached sheets detailed information regarding pending litigation, liens, or claims involving any participant in the proposal or any entity previously owned or controlled by Proposer.

PROPOSER'S REFERENCES

List four persons or firms with whom Proposer has conducted business transactions during the past three years. At least two of the references named are to have knowledge of Proposer's debt payment history. At least one reference must be a financial institution.

Reference No. 1

Name: Dan Tyner

Firm: Cannon USA

Title: Account Manager

Address: 3200 Regent Blvd, Irving, Texas 75063

Telephone: (828) 863-2709

Nature and magnitude of purchase, sale, loan, business association, etc.:

Photocopy equipment and maintenance

Reference No. 2

Name: Keith Askenas

Firm: FedEx

Title: Account Manager

Address: 3875 Airways, Module H3 Department 4634, Memphis, TN 38116

Telephone: (443) 904-7334

Nature and magnitude of purchase, sale, loan, business association, etc.:
CourierReference No. 3

Name: Brian Davis

Firm: Shaker Auto Lease

Title: Account Manager

Address: 26671 Renaissance Parkway, Warrensville Heights, Ohio 44128

Telephone: (216) 649-4016

Nature and magnitude of purchase, sale, loan, business association, etc.:

Reference No. 4

Name: David Humes

Firm: Wells Fargo Bank

Title:

Address: 1300 SW Fifth Avenue, Portland, OR 97201

Telephone: (503) 886-3750

Nature and magnitude of purchase, sale, loan, business association, etc.:

Reference No. 5

Name: Bill Bostwick

Firm: OfficeMax

Title: National Account Manager

Address: 4690 Geneva St., Denver, CO 80238

Telephone: (303) 513-6735

Nature and magnitude of purchase, sale, loan, business association, etc.:

PARTNERSHIP STATEMENT

If Proposer is a partnership, answer the following:

1. Date of Organization URS Corporation Southern is not a partnership
2. General Partnership ()
Limited Partnership ()

3. Statement of Partnership recorded? Yes () No ()

Date Book Page County State

4. Has the partnership done business in the State of Florida?

Yes () No () When? Where?

5. Name, address, and partnership share of each general and limited partner. (If partnership is a corporation, complete the Corporation Statement below for the corporation.)

<u>General/ Limited</u>	<u>Name</u>	<u>Address</u>	<u>Share</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

6. Attach a complete copy of the Partnership Agreement.

CORPORATION STATEMENT

If Proposer is incorporated, answer the following:

1. When incorporated? 1981
2. Where incorporated? California
3. Is the corporation authorized to do business in Florida? Yes (X) No ()
4. The corporation is held: Publicly () Privately (X)
5. If publicly held, how and where is the stock traded?.....
6. List the following:

K9. RFQ CHECKLIST

Please check each line item after the completion of the appropriate item.

- X I have submitted one (1) original, seven (7) copies, and one (1) electronic copy (either CD or disk) of the entire proposal with addendums, in a sealed package, in 8 1/2" x 11" format, inclusive of K1-K6, prior to the prescribed time and date specified.
- X I verify that the signature on page number one (1) is the signature of the person authorized to bind the agreement. (Preferably in blue ink)
- X I acknowledge reading and signing the Hold Harmless Statement.
- X I have included all information, certificates, licenses and additional documentation as required by the City in this RFQ document.
- X I have checked for any addendums to this RFQ, and will continue to check for any addendums up to the due date and time of this RFQ.
- X I have verified that the outside address label of my RFQ package is clearly marked to include my company's name, address, RFQ number and date of RFQ opening.
- X I have read and completed (if applicable) the "Disclosure of Conflict of Interest".
- X I am aware that a Notice of Intent to award this bid shall be posted on the City's website at www.hollywoodfl.org and on the Procurement Services bulletin board in room 303 at City Hall, and that it is my responsibility to check for this posting. Also, I have provided my email address, as the City, at its discretion, may provide me information by such means regarding this procurement process.

NAME OF COMPANY: URS Corporation Southern

PROPOSER'S NAME: Daniel J. Levy, PG

PROPOSER'S AUTHORIZED SIGNATURE: 

DATE: 8/18/2014



City of Hollywood, Florida

PROCUREMENT SERVICES RM. 303
P. O. Box 229045 ZIP 33022-9045

NOTICE TO PROPOSERS

NOTICE IS HEREBY GIVEN, that the City Commission of the City of Hollywood, Florida is advertising for Sealed Request for Qualifications, which will be received by the City Clerk of the City of Hollywood, Florida until **3:00 P.M., August 19, 2014**, at which time they will be opened and publicly read in the Procurement Services Division, Room 303, City Hall, 2600 Hollywood Boulevard, Hollywood, Florida. FOR: **Environment Engineering Services - RFQ-4427-14-IS.**

RFQ NO. 4427-14-IS
ADDENDUM NO. 2

Please make the following changes (additions, deletions or corrections) in the above named RFQ.

Questions submitted in regards to the above RFQ and corresponding answers:

Q1: Clarification regarding: A. Submission Requirements, Section 6: Related Experience and References, found on page 27 of the solicitation document. Do the five relevant projects have to have been completed in the last three years, or can we include ongoing projects?

A1: While a Proposer may submit a list of ongoing projects, it is in the best interest of the Proposer to provide examples of completed projects in order to demonstrate verifiable outcomes. The relevant projects do not have to have been completed in the last 3 (three) years.

Q2: Will the City please provide the link to the Environmental Assessment and other relevant reports?

A2: Environmental Assessment are available with the RFQ documents in BidSync, as addendum 1.

Q3: If a boundary survey and/or a topographical survey is available for the project area, will the City please provide?

A3: Topographical survey is available with the RFQ documents in BidSync as addendum 3 and 4.

Q4: Who is the City's project manager for this project?

A4: Vielka Quintero, Economic Development Representative.

Q5: For item J3 on page 33 of the RFP (Hold Harmless and Indemnity Clause/Insurance Requirements), can we replace that language with language we have successfully used on past City of Hollywood contracts and to be in compliance with Section 725.06 of the Florida Statutes?

A5: No, the language shall not be altered.

**RFQ NO. 4427-14-IS
ADDENDUM NO. 1**

Q6: Can we submit only the required hard copies instead of submitting via BidSync?

A6: Yes, you should submit as stated on page 5 of the RFQ documents.

Q7: In the outline of submission requirements, Section 3 is missing. Is information missing or should we just skip that section and renumber accordingly?

A7: There is no Section 3, this was a typographical error.

Q8: Does the City currently anticipate holding a pre-bid meeting for this solicitation? If so, when?

A8: No, there is no pre-bid meeting scheduled.

Q9: Section 6, page 27: The RFQ states the proposers are to submit up to 5 relevant projects. Please clarify if 5 will be the minimum, or if any number less than 5 will be accepted?

A9: Five (5) relevant projects is the minimum requirement.

Q10: Page 26, Section 3: Would the City like any information included within Section 3 of the response?

A10: There is no Section 3, this was a typographical error.

Q11: Item 4, page 30: The RFQ states that the projects completed for the City and other state or federal agencies will be considered. Will this also include other cities and counties?

A11: Yes, you may include other cities and counties projects.

Q12: What is the City's budget for this project?

A12: The project cost will be determined based upon the final approved scope of services.

All other specifications, terms & conditions remain the same.

MAILED RFQ'S

If you have already submitted your printed Request for Proposals, it will be retained in the City Clerk's Office until the Proposal opening time and date. If you wish to pick up your RFQ that has already been submitted, you can do so by showing proper identification, in the Office of the City Clerk, 2600 Hollywood Blvd, Room 221, Hollywood, Florida 33020.

Please sign and return with your RFQ.

COMPANY NAME: URS Corporation Southern - Daniel J. Levy, PG / Principal-in-Charge

PROPOSER'S SIGNATURE 

Dated this 14th day of August, 2014