HCR
HANDEX CONSULTING
& REMEDIATION, LLC

July 9, 2014

Mr. James Bouquet, P.E.
Director of Engineering
City of Key West
3140 Flagler Avenue
Key West, Florida 33040

RE: Request for Qualifications (RFQ) No. 14-004 – Environmental Engineering Services

Dear Mr. Bouquet:

Handex Consulting & Remediation – Southeast, LLC (HCR), a local, Florida-licensed environmental engineering, geology, and construction firm, is pleased to submit this qualifications package to the City of Key West for your consideration. HCR is a full-service environmental provider properly authorized and licensed to transact business in the State of Florida. We firmly believe that our diverse experience will provide cost effective and value-added services to the City of Key West projects. HCR has a legacy of successfully performing in the environmental arena for over 22 years in Florida and consists of industry experts that plan to become your long-term business partner.

HCR has extensive experience in site assessments, impact to construction investigations, groundwater/soil treatment system design and implementation, construction management/oversight, UST/AST/hydraulic lift removals, mold/lead/asbestos abatement, and hazardous/non-hazardous waste management. With our contracts with the Florida Department of Transportation and the Florida Turnpike Enterprise, we are accustomed to providing these services with a fast-tracked approach to address environmental concerns in a cost-effective, yet thorough manner. To round out our team to meet all the requirements of the RFQ, we have aligned with Buchart Horn, Inc. to provide the required coastal engineering services being requested in the RFQ . With HCR, the City of Key West will have access to a firm that has diverse experience in a variety of settings.

We look forward to providing our services to the City of Key West upon approval and acceptance of our qualifications. Thank you for your time and consideration and please let us know if you should require additional documentation.

Sincerely,

Handex Consulting & Remediation – Southeast, LLC

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The City of KEY WEST

Environmental Engineering Services
RFQ No. 14-004

July 9, 2014

Prepared for

The City of Key West

Submitted by

Handex Consulting & Remediation-SE, LLC

HCR
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Proposal Submittal

For
The City of Key West
Environmental Engineering Services
RFQ No. 14-004

Submitted by
Handex Consulting & Remediation-Southeast, LLC (HCR)

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1.0 EXECUTIVE SUMMARY

With HCR you will have a team that has extensive environmental experience, has proven management and technical skills, and will be responsive to the needs of the City of Key West – no matter the nature of the project.

HCR has been offering quality and responsive environmental assessment, remediation, environmental construction, and emergency response services for over 40 years. Founded in 1968, HCR initially performed dewatering activities and cleanup projects for major oil companies and smaller petroleum marketers in the northeastern United States. Since that time, we have expanded our in-house service lines to include environmental audits, risk assessments, tank pulls, hazardous material and waste handling, industrial sludge dewatering, remedial construction, emergency response projects, asbestos/lead/mold surveys and abatements, response to construction situations involving contaminated and/or hazardous materials, and construction and/or installation of transportation related structures and features in areas involving contaminated and/or hazardous materials. HCR is a full service environmental consulting and contracting firm that specializes in providing comprehensive solutions to our client's environmental projects.

HCR has also provided emergency response, environmental assessment, remedial design, waste transportation and disposal and construction services to government agencies and public sector clients for over 22 years. These projects have included assessments, engineering, emergency response, design, and construction activities necessary bring a contaminated site to regulatory closure.

Due to our considerable experience with large indefinite quantity contracts, HCR quickly adapted to the needs of our clients. We have achieved this by utilizing the same economically sound management style that has proven so successful for our long-standing clients. This management style has allowed HCR to reduce overall project costs during our work. The experienced personnel at the Fort Lauderdale office handle cost savings as a challenge, attempting to find alternate design strategies instead of costly remedial activities. HCR's project completion record and our constant efforts to excel are examples of how our management plan has allowed us to successfully meet our client's objectives. While we have sound management and consistent processes in place, HCR continues to seek efficient, innovative, and cost-effective approaches to any task at hand.

HCR provides our services to government agencies and is knowledgeable with Federal, State, and local regulatory requirements, as well as RCRA, CERCLA and all applicable laws under the Florida Administrative Code. We have a strong commitment to Florida and the protection of our natural resources. HCR currently provides environmental services under contracts with the following Florida agencies/companies:

- *Florida Department of Environmental Protection, Petroleum Restoration Program,* – Environmental Assessment & Remediation – Florida
- *Florida Department of Transportation* – Assessment/Remediation/Emergency Response Services – District Four

- *Florida Turnpike Enterprise* – Environmental Assessment/Remediation/Emergency Response Services – Florida Turnpike
- *Port Everglades Environmental Corporation* – Assessment/Remediation
- *Broward County Approved Vendor* – Environmental Services
- *Orlando Utilities Commission* – Environmental Support
- *Hillsborough County Sheriff's Department* – Environmental Remediation Services

HCR is licensed and experienced at providing the services required by the RFP to include environmental assessment, design, consulting, remediation, and compliance monitoring services. Our stringent insurance requirements, training programs and technically advanced equipment, as well as our ability to retain top professionals are obvious benefits of doing business with HCR.

HCR LICENSES AND CERTIFICATIONS	
Professional Engineer	✓
Professional Geologist	✓
Certified General Contractor	✓
Pollutant Storage Systems Contractor	✓
Water Well Contractor	✓
Stormwater Management Inspector	✓
Mold Assessor	✓
Mold Remediator	✓
Management of Traffic Certification	✓
TSA Transportation Worker Identification Credential	✓

While HCR has significant environmental experience in the State of Florida for local and state governments/agencies, we strive to provide a full, functioning team to meet all of the needs of our clients. As such, HCR has added Buchart Horn, Inc. (BH) to our team to be fully responsive to the scope of work providing coastal engineering services.

BH's marine and coastal engineering resources include comprehensive waterfront, marine, and coastal engineering services. Services include feasibility assessments, environmental assessments and remediation, planning, coastal modeling, marine structural engineering, marine geotechnical engineering, waterfront facilities design, threat and vulnerability assessment, and program and construction management for a myriad of waterfront, marine, and coastal projects worldwide. Each project is customized to the client's unique needs.

From waterfront amenities and recreational marinas, to industrial and commercial port facilities, to military coastal structures and floodwall protection systems, BH projects incorporate the most advanced designs, sustainable solutions, and practices.

BH can address all environmental facets associated with the complexities of marine and coastal projects. Additionally, BH professionals are well versed and experienced in regulatory compliance for facilities of all types, with lessons learned from a diverse array of projects across the United States and beyond.

HCR offers a strong, stable and growing organization where decisions can be made and proposals prepared without going through multiple layers of corporate structure and approval resulting in responsive solutions. You can trust that we will be here throughout the term of this contract and if selected we guarantee that the City of Key West will receive the highest level of priority, quality, reliability and responsiveness under this contract.

2.0 SPECIALIZED EXPERIENCE AND TECHNICAL COMPETENCE

2.1 Environmental Engineering Services

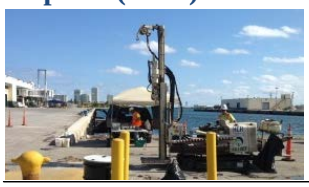
HCR has significant environmental experience in a variety of settings to include the transportation arena, ports, retail facilities, and privately owned property. We specialize in integrating our industry experience in Environmental Assessment and Engineering Services, Remedial & Construction, Remedial Technologies and Civil Construction to provide our customers with a proven, safe and financially strong partner they need.

HCRs' core competencies and capabilities are vast - a summary is as follows:

Assessment & Engineering Services	***Remedial & Construction Services***	***Environmental Management***
Field Sampling and Analysis	Construction Management	Groundwater Containment
Direct Push Technology – In-house	Permitting	Free Product Recovery
Fast tracked/streamlined assessments	Traffic Control (MOT)	Dewatering
Contamination Assessment and Reports	Drainage Structure & System Installation	Sludge Dewatering & Drying
Phase 1 & II Environmental Assessments	Site Excavation, Grading, and Backfill	Soil Vapor Extraction
Remedial Design/Engineering	Site Dewatering and Effluent Treatment	Stabilization
Remedial Options Evaluation & Selection	Plume Capture and Control	UST Closure
Innovative Technology/Pilot Studies	Sheeting/Shoring/Excavation Bracing	Decontamination/Demolition
Permitting	Lagoon Closure	LNAPL/DNAPL Recovery
Preparation of Plans and Bid Documents	Groundwater Cutoff Walls	Treatment System Operation & Maintenance
Bridge and Structural Steel Sampling	Site Restoration	NPDES Permitting & Compliance
Lead & Asbestos Abatement	Contractor Oversight	Indoor Air Quality

The HCR offices are fully staffed with multi-disciplinary professionals with extensive experience which gives HCR the flexibility to meet the various needs of the City of Key West The HCR staff, along with our team members and a complete equipment inventory, facilitate in-house staffing (project reviews, environmental management, liaison activities, and plan reviews), Phase I/II environmental assessment assessments, contaminated area management planning, site assessment reports, design and implementation of various forms of remediation, source and tank removals, asbestos/lead/mold surveys and abatements, dewatering treatment, and various construction support/management services. HCR has available staff and dedicated facility capabilities and equipment to perform the services under this contract. A high level summary of HCRs experience and understanding of the services required under this contract are provided below.

HCR Services	The HCR Advantage
In-House Services (Project, EM, and Plans Reviews) 	HCR currently provides in-house/staff augmentation to FDOT District 4 Planning and Environmental Management (PL&EM) systems and procedures to assist with project reviews, EM, and NEPA compliance. Tools include Project Suite (NEPA compliance, ERC Comments, and ETS Status) and Primavera. Primavera lists activities and timelines for project initiation to production. Primavera tasks include: identify environmental features, environmental activity coordination meetings, initial environmental impact review, constructability environmental impact review, environmental final impact review, environmental certification, and the environmental compliance handoff meeting. The in-house services also include maintaining the Bridge Inventory List for lead based paint and asbestos containing materials testing. In addition, our in-house staffing personnel provide beneficial intra/interdepartmental support including acting as the environmental liaison between PL&EM and the Office of Modal Development and supporting ROW for surplus, lease, and permit requests.

HCR Services	The HCR Advantage
Phase I Environmental Site Assessment 	HCR performs site reconnaissance and database review to assign each site a risk assessment rating of No, Low, Medium, or High. Findings are provided in a Phase I environmental site assessment (ESA) which identifies and evaluates known or potential contamination problems, presents recommendations concerning these problems, and discusses possible impacts to the proposed project. When a significant time period has elapsed since the generation of the initial ESA, ESAs are often updated through an ESA Addendum.
Phase II Environmental Site Assessment 	When potential conditions are identified during a Phase I evaluation that could impact the City's projects, HCR conducts a Phase II ESA to confirm and delineate contaminants and identify potential impacts to the proposed project. HCR provides detailed reports with clear conclusions and more than one option whenever possible based on project goals and expectations to minimize cost and liability to the City. The reports include recommendations with regards to worker exposure issues and impacts to construction activities and/or future use of the impacted property. The goal is to identify and evaluate the potential contamination impacts as early as possible in the planning process.
Contaminated Area Management Plans (CAMP) 	When contaminated media (soil, sediment, and/or groundwater) are documented a CAMP is developed to manage the contaminated media. For Design-Build projects, the CAMP is completed in conjunction with the Design-Build Team members (engineering firm, CEI firm, and primary contractor). The CAMP describes each contamination zone, the health and safety measures to be employed, the procedures for management and/or disposal of impacted media, assignment of construction activity responsibilities in the contaminated zones, and construction phase coordination.
Site Assessment Reports (SAR) / Contamination Assessment Reports (CAR) 	SARs are an even more comprehensive assessment which may be required by certain projects and may involve additional analytical sampling, monitor wells, plume delineation, and geophysical surveys. SARs for contaminated sites are prepared in accordance with Chapter 62-780, FAC. SARs for sites contaminated by other contaminants are prepared in accordance with applicable local, state, and federal guidelines. HCR provides detailed and comprehensive SARs supporting all conclusions and recommendations of the assessment activities.
Remedial Design/Remedial Action Plans (RAP) 	In cases where the assessment activities and project requirements dictate remediation of an area impacted with contamination, such as in advance of planned construction activities, HCR will prepare a RAP proposing a plan to remediate the impacted soils and/or groundwater to levels determined by applicable regulations. HCR's maintains consistent communications with our clients to provide our geologists, engineers, and environmental construction specialists with the required and detailed information vital to the development of the most efficient and cost effective remedial approaches to ensure cleanup or treatment goals are met with minimal impact to the City's projects and schedules.
Environmental Construction and Remedial Implementation 	HCR has extensive experience providing remedial, environmental, and civil construction services while working concurrently with all interested parties and others to ensure adherence to project schedules. HCR's Remediation/Construction Project Managers manage an extensive crew of OSHA HAZWOPER certified environmental and civil construction specialists including foremen, heavy equipment operators and laborers.

HCR Services	The HCR Advantage
Remedial System Construction and OM&M 	HCR has installed hundreds of remedial systems, including the massive Florida's Turnpike Enterprise Ft. Drum Service Plaza system. Operation, Maintenance and Monitoring (OM&M) assistance, required throughout the life of remediation projects, includes periodic site inspections, preventative maintenance, data collection, sampling, and the preparation of reports with recommendations for additional actions to speed up closure if required.
Transportation Related Construction Services 	Through our work with FDOT District 4 and Florida's Turnpike Enterprise, HCR has established a significant track record of exceptional performance relating to removal and/or replacement of existing asphalt or concrete pavement; removal, relocation, or replacement of underground utilities; and installation of sheet pile and other barrier technologies ensuring timely completion of transportation related projects.
Underground and Aboveground Storage Tank Closures 	HCR routinely conducts the closure of out-of-use or leaking aboveground or underground storage tanks (ASTs or USTs) as required due to roadway expansions, discovery during construction, regulatory agency requirements, or site upgrading. Two methods, excavation and removal or closure in place (filling the tank with an inert material), can accomplish closure of USTs. All AST and UST closures are conducted and reports prepared in conjunction with FDEP, local municipality, and fire department regulations under the direction of our licensed PSSC.
Source Removals (SR) 	HCR fully understands and incorporates all regulations to the eventual site cleanup where free product or excessive soil contamination is present, including Chapter 62-780.500, FAC pertaining to contaminated sites. Prior to the disposal of any material, proper profiling is completed through appropriate sampling and laboratory analysis to ensure segregation of materials - resulting in lower disposal costs.
Hazardous Waste Characterization / Transportation and Disposal (T&D) 	HCR has extensive experience coordinating the T&D of hazardous and non-hazardous waste and is up to date in all disposal regulations which include 49 CFR Parts 171 through 180 (DOT Hazardous Material Regulations), 40 CFR Part 261 (RCRA), and 40 CFR Part 761 (TSCA). HCR always evaluates the most cost effective means of disposal, taking into account liability concerns, to present options to the City for approval. HCR focuses on the segregation of unknown materials into groups that have similar physical and chemical qualities by running a series of compatibility tests. Upon receipt of the compatibility information, bulk testing can be performed to determine which waste streams can be bulked together. Upon review of the analytical results, our material handlers evaluate each particular waste and prepare profiles for appropriate disposal.
Dewatering and Treatment 	Hundreds of HCR projects require groundwater depression, via the installation of well points or incidental excavation seepage water evacuation/removal, to complete certain tasks. Examples include subsurface activities such as roadway construction, utility line installation, and UST removal. HCR has extensive experience installing well point dewatering systems, managing excavation seepage water and providing mobile treatment equipment to treat the groundwater prior to discharge. HCR completes discharge permitting and compliance sampling to maintain project schedules. In addition, HCR also understands the benefits of minimizing water withdrawal and associated handling/management.

HCR Services	The HCR Advantage
Lead Paint Testing and Abatement 	HCR has screened, sampled, and managed remediation services on hundreds of bridges on an expedited basis for FDOT District 4. Lead paint screening, sampling, analytical testing, and abatement are performed using up to date Standard Industry Practices and utilizing FM 5-564, Sampling of Structural Steel Existing Coatings System.
Asbestos Containing Materials (ACM) Testing and Abatement 	HCR routinely performs bridge asbestos inspections and abatement projects according to FDOT procedure (Topic #625-020-020-c) relating to asbestos on bridges (facilities), complying with EPA NESHAP and all other regulations during renovation or demolition. HCR also manages other ACM testing and abatement projects such as the recent removal of transite pipe in accordance with 40 CFR Part 61, Subpart M, National Emission Standards for Asbestos.
Indoor Air Quality - Mold Testing and Abatement 	HCR provides all of the elements of an effective mold program including: inspection and detection; site analysis; mold remediation; post remediation monitoring; prevention and mitigation; and exposure assessment. HCR has experience monitoring and sampling other indoor air pollutants including formaldehyde, carbon monoxide, carbon dioxide, and hydrogen sulfide.

HCR's value added and specialty services include:

- Use of Innovative Technology to save time and money
- In house staffing support services – Project reviews, NEPA compliance, Project Management
- Coordination with the City
- Coordination with FDEP and other regulatory agencies
- Regulatory & Expert Witnesses
- Advanced Maintenance of Traffic
- Value Engineering
- Field methods to prevent subsurface utility impacts through the use of GPR, line locators, and hand clearing (robust internal utility locate and excavation SOPs)
- Sample collection and analytical methodology that minimizes false positive results from naturally occurring compounds, matrix interference, and artifacts
- Erosion and sedimentation control / Stormwater management
- SPCCP/SWPPPs
- Risk Management Strategies
- Preparation of materials and schedules for City use at internal meetings and conferences
- Support of Sustainability Initiatives

2.1.a Contaminated Site Investigations and Remediation Services

Contamination/Site Assessments

HCR has extensive experience performing more than 10,000 Contamination/Site assessments (CA/SA) nationwide involving a variety of site conditions, contaminants, and contaminated media. The purpose of a CA/SA is to determine if contamination is present above regulatory standards and to define the horizontal and vertical extent of any free product, contaminated soil, or contaminated groundwater. Following an initial site visit, a Work Plan outlining the proposed assessment methodology will be submitted to the City for approval. At large sites, the Work Plan may include a CAP for approval by FDEP.

HCR focuses on economical techniques to expedite assessment and improve characterization. We have utilized various tools and technologies to streamline and minimize cost impact to assessment activities, including: microwells, temporary wells, direct push technology (DPT) soil sampling, Geographic Information System (GIS)/Global Positioning System (GPS) field data collection, Cone Penetrometer Testing/Membrane Interface Probe/conductivity logging, Laser Induced Fluorescence (for Stoddard Solvents), passive soil gas sampling (Gore-Sorber™), Rotosonic™ drilling, amino assay field screening, aquifer pump tests, and test trenching. Field chemistry kits for obtaining screening-level results for most contaminants of concern now exist. Use of these kits will be evaluated on a case-by case basis depending on the data quality required and the number of screening samples needed; however, significant cost and time savings may be realized on appropriate sites. HCR traditionally utilizes direct push drill rigs which, when combined with a mobile laboratory, expedite the CA/SA process by providing real time data in the field and also minimize the generation of investigation derived wastes (IDW). The goal of the field activities is to execute the assessment in one mobilization, thereby reducing time to complete and minimizing costs normally associated with multiple mobilizations. Tank and line testing may also be used to assist in determining the contamination source if storage tanks are present. The two common threads running through this list approaches are speed and cost-effectiveness. By quickly acquiring data, organizing it, and electronically presenting data, HCR aims to accelerate decision-making steps in the assessment process while maintaining full quality standards.

Following completion of the CA/SA activities, a CAR or SAR, is prepared in accordance with the requirements listed in Chapter 62-780, FAC and FDEP "Guidelines for the Preparation of CARs for Petroleum Contamination Sites" or other applicable regulations. The CAR/SAR presents the findings of the CA/SA in a detailed format. The CAR/SAR is concluded with a recommendation for No Further Action, Natural Attenuation, or Remedial Action, as justified by the CA/SA data.

HCR personnel are experienced in performing all phases of the site assessment. Our sampling personnel complete an in-house training program under the supervision of qualified technical supervisory personnel. Additionally, we offer a fully trained staff knowledgeable in FDEP site assessment requirements and the FDEP SOPs for Field Sampling Activities (DEP-SOP-001/01). Many of our staff (field) scientists have attended outside

We've Done It!

Florida Turnpike Okahumpka Service Plaza

- Fast tracked design/implementation in conjunction with planned construction activities
- Prepared a RAP under FDEP guidelines
- Installed 157 Air Sparge Wells; 120 Soil Vapor Extraction Wells
- Design/Build process conducted in 39 weeks
- Facilitated ongoing activities at Service Plaza during plaza renovation activities

courses conducted by the FDEP on these proper field data collection and sampling practices. HCR offers ***local*** Florida registered Professional Geologists and Engineers on staff to supervise assessments and seal reports. We integrate their knowledge throughout our performance of the assessment activities, giving us a clear advantage in streamlining data collection and developing accurate assessments *focused on expediting projects*.

Remedial Action Plans

One of the primary elements of HCR's success in site restoration is the focus on a successful "up front" assessment and delineation of the contamination plume. Continuous communication with the owner allows for input on assessment and remedial action approach and timing. This forward thinking approach facilitates successful design and implementation which brings sites to closure. HCR has successfully implemented pilot test plans for selected technologies and prepared remedial action plans and remedial action modification plans with alternative evaluations for remedial action construction designs and specifications. HCR's professional staff is experienced with obtaining Underground Injection Control (UIC) and NPDES permits in compliance with regulations. Comprehensive planning allows protection of potential sensitive receptors through a risk-based approach.

HCR has extensive experience in selecting the appropriate remedy. We take every aspect of the specific site into consideration when developing our remedial approaches to include: contaminant concentrations; subsurface conditions; constructability (i.e. access to source zones, traffic – public and vehicular); noise concerns; interruptions to construction schedules; cost; duration of planned activities and business impacts; client goals; and the use innovative technologies to reduce or expedite remedial efforts. We evaluate the ability to focus remedial efforts on first addressing the source area if possible. Our engineers are well versed at designing remedial solutions using standard remediation technologies, ranging from active technologies such as SVE and air-sparging to in-situ remediation technologies such as zero-valent iron, chemical oxidation, and bioremediation technologies. The designs generated by HCR tend to be more practical and constructible because we are a true design/build contractor. We design and install our own active remediation systems, perform soil stabilization, self-perform chemical oxidant injections and design our own testing procedures for evaluating biotechnologies. Feedback from our construction personnel keep our engineers closely in touch with the "real world," while frequently offering elegant solutions to engineering problems.

Active Remediation Methods

- Soil excavation
- In-situ chemical oxidation
- In-situ and ex-situ bioremediation
- Fixation and stabilization
- Soil vapor extraction
- Dual phase extraction,
- Pump and treat
- Air sparging

A RAP will be developed following the site investigation/delineation phase and designed to address Site conditions documented in the Affected Property Assessment (APAR) and based on discussions with the client to gain a full understanding of goals/expectations for each site. To ensure an effective design and selection of the appropriate remedial technology, it is critical that feasibility studies and/or pilot studies be conducted. It is preferable to have supporting data collected during the assessment phase to streamline the design phase. The design will provide an analysis of applicable technologies, pros and cons, cost efficiency, and will provide a final recommendation for an operable and effective remedy for the site. The RAP will present a detailed engineering design capable of achieving the

desired site rehabilitation levels or client goals and will fully specify all components of the proposed remedial system. Engineering calculations are computerized in Microsoft Excel software as appropriate to facilitate regulatory review. HCR specializes in design/build projects, so we are very experienced in developing design packages which include plans, specifications, a detailed engineer's cost estimate and an implementation schedule. As-built drawings are prepared following system installation to document the completed construction.

2.1.b Industrial Hygiene Services

Health & Safety

HCR's commitment to an aggressive Health & Safety program results in HCR maintaining one of the best safety records in the industry. With a professionally trained Health and Safety team, HCR is available to provide health and safety training and services to companies and subcontractors too small to employ their own in-house safety program, and to larger companies looking to improve their existing programs.

HCR brings real-world health and safety experience to your company with safety personnel that are trained to collaborate daily with regulators to minimize safety concerns. HCR offers customized safety seminar series with over twenty 1-hour courses, including monthly "brown-bag" meetings, as well as three levels of OSHA HAZWOPPER training.

HCR has adopted the prestigious Loss Prevention System (LPS) which is a safety system designed to prevent or reduce incidents that are defined either as a loss or near loss, using behavior-based tools and proven management techniques. LPS training, required for all HCR personnel and subcontractors, "provides direction and enjoys senior management support from the top down, while solving problems from the bottom up".

Industrial Hygiene

HCR provides onsite industrial hygiene services to evaluate and compare exposure to government regulations. These services include personnel and area sampling, exposure monitoring, and identification and implementation of appropriate corrective actions.

Indoor Air Quality (IAQ) is an important component of a healthy and productive living and working environment. HCR provides the following IAQ services:

- Assessment and prevention
- Design and installation of remediation systems
- Operation and maintenance services
- Prevention mitigation

Asbestos and Lead Abatement Management Services

HCR manages the assessment and abatement of structures (bridges, piping, buildings) with known asbestos containing materials (ACM) and/or lead based paint (LBP). HCR has conducted surveys at over 100 bridges under contract with the Florida Department of Transportation in multiple districts. As part of the surveys, representative samples of

HCR working on ACM

suspect materials were obtained and analyzed for lead and/or ACM. Lead paint screening, sampling, analytical testing, and abatement were performed using up to date Standard Industry Practices and utilizing FM 5-564, Sampling of Structural Steel Existing Coatings System. ACM abatement typically included the wet removal of the existing Class V finish and the application of a new Class V finish. HCR utilized a project scientist/ field health and safety officer to monitor site activities, coordinate abatement subcontractors, and to oversee and ensure proper Maintenance of Traffic. In addition, HCR conducted ACM removal of several bridges and removed up to 6 miles of 24" diameter steel abandoned gas lines wrapped in ACM insulation along the Turnpike shoulder in Broward County. Reports were submitted detailing the findings which facilitated evaluation of the potential impacts associated with planned renovation activities.

Other - Mold Assessment and Remediation

HCR conducted mold abatement and restoration activities at the FDOT Broward Operations Building allowing resumed use of the office space. HCR began the assessment by conducting a thorough visual inspection and infrared thermography scan of areas of observed and potential moisture intrusion. Once the moisture impacted dry wall was removed and properly disposed, antimicrobial solutions were used to sterilize the remaining surfaces. Post remediation microbiological samples were collected to determine the species, presence, and number of fungi present within the building. Additional material was removed as required, and the dry wall was replaced. Upon completion, a mold remediation activity report was prepared documenting the activities performed.

2.1.c Underground Storage Tank Site Services

HCR has complete knowledge and understanding of all federal, state and local laws and regulations governing fueling facilities. All site work is performed in accordance with the American Petroleum Institute (API) Recommended Procedure 1604 (RP 1604), "Removal and Disposal of Used Underground Storage Tanks," HCR SOPs, Chapters 62-761 and 62-770, FAC, National Fire Protection Association (NFPA) 30 and 30A and other applicable industry standards. All tank removal activities are conducted under the direct supervision of our Pollutant Storage System Contractor (PSSC) license holder. HCR has removed hundreds of storage tanks in Florida.

We've Done It!

Extensive UST Removal Experience

- In-house licensed PSSC
- Proper removal of over 200 USTs in Florida
- Tanks ranging in size from 500 -gallons to 50,000-gallons
- Tank construction includes steel, fiberglass, and fiberglass -reinforced steel

HCR fully understands the all the necessary measures necessary for underground storage tank services. With our extensive site assessment experience, we are equipped to conduct investigations within the storage tank environment. Further, being a combination consulting, professional engineering and geology firm, Certified General Contractor and a licensed Pollutant Storage Systems Contractor, HCR has extensive experience in self-performing tank closures and all of the necessary requirements for providing these services. Our typical UST closure approach includes the following:

- ✓ Permitting with the appropriate local city and county environmental divisions and fire department;
- ✓ Proper removal and disposal of fuel dispensers;

- ✓ Cap each end of all underground piping runs and fill with concrete;
- ✓ Fill all lines to alleviate voids in the ground;
- ✓ Flushing and proper removal of all associated product lines;
- ✓ Cleaning and preparing tanks for removal;
- ✓ Collection and disposal of impacted water generated during the cleaning of the tanks;
- ✓ Removal of concrete/asphalt as construction debris prior to the removal;
- ✓ Removal of tank; if underground tank removal is involved the excavation will be backfilled and left to the existing pavement grade;
- ✓ Performing post-excavation assessment, which includes soil screening and confirmation soil sample collection for laboratory analyses prior to backfilling and compaction; and
- ✓ Preparing the closure assessment report to the applicable agencies within 30 days of completion.

HCR has conducted integrated assessment, tank closure, and remedial activities associated with fueling facilities in complex environments as evidenced by our experience with the Florida Department of Transportation and Florida Turnpike Enterprise contracts. These contracts, by nature, require a streamlined approach to efficiently conduct assessments, remove storage systems, and implement remediation to avoid delays associated with construction projects. This experience has also afforded HCR the opportunity to provide construction management services associated with impacted areas in conjunction with planned construction project – whether the impacted are were known prior to construction or discovered during the construction phase. Our diverse experience in this area is further detailed in project profiles provided in **Appendix C**.

2.1.d Real Estate Development Support Services

HCR has considerable experience in successfully performing environmental site assessments associated with real estate development project. In fact, one of HCR's majority owners is a real estate developer with a vast presence in Florida. This has afforded us the opportunity to work hand-in-hand with the developer to fast track environmental assessments with a full knowledge of the future end use of property acquisitions and project goals. We have worked in a full range of environmental regulatory areas, including CERCLA, RCRA, TSCA, and other Federal programs, as well as under State of Florida environmental regulations and ordinances.

We've Done It!

Hernando & Citrus Counties, Florida Turnpike Enterprise

- Phase I ESAs along proposed pathway associated with Suncoast Parkway expansion project
- Multiple parcels including retail and undeveloped properties
- Streamlined reporting to support construction schedule

HCR is experienced in conducting Environmental Site Assessments of a property (in a variety of settings – forested/rural, etc.) in accordance with standards and practices for All Appropriate Inquires (AAI), ASTM E 1527-05, ASTM E 2247-08, and the FDEP Division of State Lands standards for conducting Phase I ESA reports. Additional tasks may include updates/revisions to previously completed ESAs. Updates will comply with all ASTM and FDEP standards. If Phase II ESAs are deemed necessary, they will be conducted in accordance with FDEP DSL's Standards for Conducting Phase II Environmental Site Assessments. HCR has conducted ESAs on rural properties, large

acreage tracts, industrial facilities, and within in urban settings with an end goal of redevelopment/reuse.

2.1.e HCR Innovative Concepts/Cost Savings Measures

HCR continually strives to develop and explore new and emerging technologies, as well as utilize existing technologies and concepts in creative ways to provide innovative, cost effective and cost saving solutions. Several examples are provided below.

Low Scored Site Initiative

The state of Florida Department of Environmental Protection (FDEP) has initiated a program called the Low Score Site Initiative (LSSI) through the Petroleum Restoration Program. The LSSI expedites assessment and potential closure of sites that are less likely (based on priority ranking score) to impact human health or the environment. The LSSI program benefits site owners in a number of ways. A site may achieve closure much earlier than it would have otherwise due to its low score. Even if a site does not currently qualify for closure, owners can gather valuable information regarding the condition of their site at no cost. The co-payment under the Petroleum Cleanup Participation Program (PCPP) is waived for participation under the LSSI and the deductibles under the Petroleum Liability and Insurance Restoration Program (PLIRP) and Abandoned Tank Restoration Program (ATRP) do not apply to expenditures under the LSSI. Additionally, owners can choose to withdraw from the LSSI program at any time. Cleanup activities will continue after the site becomes eligible for funding based on priority ranking score.

EXAMPLE - LSSI Participation by MDAD

HCR is currently meeting with Mr. Gustavo Leal of the Miami-Dade County Aviation Department (MDAD) to consider enrolling up to 13 sites into the LSSI program. HCR performed research at no cost to MDAD and identified 13 sites that appeared to be good candidates. Mr. Leal is coordinating the potential participation with Ms. Julie Balogh of Regulatory and Economic Resources (RER). **This represents a potential cost savings of $390,000 to Miami-Dade County.** The criteria used to evaluate the sites included a review of the most recent assessment data to determine if the site assessment and follow-up well abandonment could be completed within the $30,000 budget.

Since this program's inception in early 2011, HCR has conducted more than 150 site assessments under the LSSI. Under LSSI, HCR and has helped owners achieve closure for 25% of the more than 150 projects that have been completed. **This translates into potential cost savings to the City of Key West because HCR will utilize state funding instead of city funding to close out program eligible discharges where the City is the property owner or the responsible party.**

When the Florida Department of Environmental Protection, the Florida Legislature and the cleanup industry work together, good things get done. The Low-Scored Site Initiative has been a success and is working as designed. It was created via a joint effort between industry and FDEP, and passed unanimously in the House and Senate in 2010. Despite being vetoed by the governor, it came roaring back to life with a unanimous veto override during special session. In the last three years, the LSSI program has closed 24% of the site put in the program within the $30,000 cost cap. It has also changed the way the consultants and FDEP perform the site assessments.

Injectable Barriers

District 4 of the FDOT, in conjunction with HCR, has pioneered the use of injectable polyurethane grout as a groundwater barrier and as a key strategic tool to minimize the management of contaminated groundwater. This technology, when properly applied, can be used to prevent migration of contaminated groundwater during construction dewatering activities. The FDOT won a Prudential Davis Productivity Award ("Avoided Groundwater Contamination Plume through Innovative Construction Methodology") for a "first in State" use of this technology for the Riviera Beach Project. In addition, it was shown on a recent FDOT District 4 Project (Okeechobee Road) that the deployment of the technology prevented the exacerbation of the adjacent contaminant plume, allowing for swift performance of the structure and piping installation, repairing previously unknown cracks in the existing concrete stormwater piping, and also accelerating the cleanup of the adjacent property with an active groundwater treatment system being operated by the FDEP.

Packaging of Sites

HCR implements a cost savings strategy for our clients during the performance of field work at various sites. The strategy involves grouping the sites together by location for performance of the fieldwork. This resulted in cost savings through reduced field mobilizations and scheduling labor hours and time savings by being able to conduct more site activities per day. These measures promote efficiency while cutting costs.

Ingenuity with Existing Technology and Regulations

HCR completed a project for Florida's Turnpike Enterprise which required the removal and relocation of a portion of an abandoned, un-permitted landfill. To minimize transportation and disposal costs, HCR utilized Power Screen units to separate the construction debris material from the soil, which was hauled off site and relocated to a permitted C&D landfill. Screened soil was left on site and used as a "cap" for the remaining landfill outside the proposed roadway. HCR processed over 40,000 cubic yards of material and disposed of over 24,000 tons of C&D waste from the site. Due to the high cost of waste disposal, the screening process saved the FDOT over $400,000. HCR was able to gain the FDEP's approval to use the screened usable fill as a cap over the remaining area of the landfill outside the roadway, saving on T&D costs and future landfill cap charges.

HCR is proud to develop and participate in the implementation of innovative concepts and cost savings measures. Examples of current, past, and future innovative concept implementations are summarized in **Exhibit 2-1**. These projects or initiatives have or will result in a higher quality product or time/cost savings to The City of Key West.

Exhibit 2-1
HCR Implementation of Innovative Concepts/Cost Savings Measures

Currrent/Past Projects or Initiatives	Time Savings	Cost Savings	Improve Quality
SR80 – Use of remediation trailers and angled wells to achieve cleanup within one year (2007 Prudential Davis Productivity Award).	X	X	X
Development of lead based paint and asbestos database (testing results). Building efficiency and effectiveness.	X	X	X
Standardization of reports, Maps/Figures – Layout and color coding for quick review and interpretation.	X	X	X
LSSI Participation - Using FDEP funding to perform site assessment at low-scored sites.	X	X	X
SR716 – Short turnaround discharge system design and permitting for contingency water flow handling and disposal capability.	X	X	
Belle Glade – Design-Build – Worked closely with design engineers pre-letting and design build team after award for work execution, materials handling, worker exposure management, and management of contaminated area issues with designers and installers (locations/materials for drainage system and water main tie-ins).	X	X	X
Electronic submittal of reports. Lab data on disk rather than paper copies.	X	X	X
Standardized determination of no-dewatering extents and provided backup to contractors and regulatory agencies for expedited permit review.	X	X	X
Developed Construction Project Contamination Coordination Process Improvement Plan.	X	X	X
Innovative use of existing technology (injectable polyurethane resin grout) to construct in-situ groundwater barriers (2013 Prudential Davis Productivity Award for concept).	X	X	

Future Projects or Initiatives	Time Savings	Cost Savings	Improve Quality
Sustainable Sites Brownfield Redevelopment		X	X
Potential re-use of thermally treated soil or onsite treatment of soil for backfill - diverts waste from landfills. (Material re-use).		X	
LSSI participation by The City of Key West	X	X	X
Green Initiatives - energy and emissions carbon footprint analysis, LEED support.		X	X
Use of Greener soil/groundwater remediation technologies when applicable.	X	X	
Facilitate greater cooperation between HCR and FDEP and support Fast-Tack Remediation in yielding mutually beneficial cost sharing/cost savings.		X	

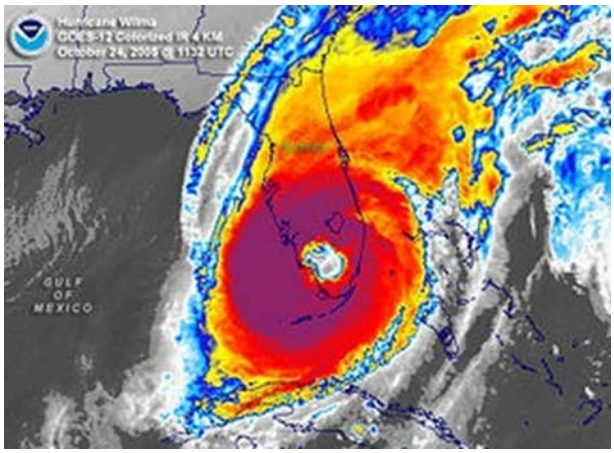
HCR has been recognized for its innovative and cost savings initiatives.

FDOT, with HCR's direct support, received FIVE FloridaTax Watch/Prudential Davis Productivity Awards from 2007 to 2013 for saving the FDOT $6.1M dollars on contamination assessment and remediation projects.

2.2 Coastal Engineering Services

Per the scope of services provided in the RFP, the City of Key West is requesting coastal engineering services to include full-scale engineering, design, surveying, permit preparation, preparation of contract specifications, bid and proposal documentation and assisting the City with technical review and ranking of procured services associated with coastal engineering. As HCR strives to provide the full range of services requested by our clients, we have aligned with Buchart Horn (BH) to provide these specialty services. BH's experience and knowledge of these specialty services are highlighted in this section.

2.2.a Coastal Modeling and Hydrodynamic Engineering



The BH marine and coastal team has extensive experience on a wide variety of waterfront and coastal development projects in regions exposed to some of the most difficult environments in the world. Our team has used the most advanced coastal modeling software available to understand the coastal processes at work in these environments and assure robust designs capable of withstanding hurricanes and other powerful weather events such as nor'easter winter storms and tsunami events.

BH's coastal and hydrodynamic engineering services include inlet analysis and design, coastal analysis, tidal and wave action studies, breakwater structures, shore protection, beach re-nourishment programs, dredging studies and design, navigation issues, environmental permitting assistance, and hydrographic studies.

BH's highly experienced coastal engineering team understands the nature and complexity of coastal problems and considers all advantageous and detrimental physical and environmental effects, while comparing the overall cost and benefits to the project.

2.2.b Marine Structural Engineering

BH's marine structural engineering services reach a broad market. Specialty services include heavy industrial waterfront facilities such as vessel berthing piers, recreational marinas, vessel mooring fields, bulkheads and seawalls, and shoreline flood protection structures, as well as structural investigations and restorations for storm-damaged structures. Frequently these marine/coastal structures are accompanied by upland structures.

The BH team also provides professional design services for boat dry rack storage buildings, clubhouses and harbormaster buildings, ship's retail store, and a wide array of luxury resort amenities. Our team has vast experience in the marine structural arena and is always looking to improve the safety, comfort, quality, and life cycles of structure designs, while looking for ways to minimize costs to the client.

2.2.c Small Craft Harbors and Marinas

With a team-based approach including the developer, upland architecture, and local and environmental agencies, the BH marina design team succeeds in combining the desired aesthetics, operational effectiveness, cost control, and creative solutions to the challenges of the environment and local marine habitat. Our team brings a vast array of experience and disciplines to marina design including comprehensive master plans to create the right relationship between land and water based structures. Our team has successfully administered these key marina planning and design services for more than 75 marinas worldwide just in the past decade alone for a large diversity of clients.

Most recently, BH was retained to provide professional design services for a second five-year contract to the US Navy Commander, Navy Installations Command, in which BH was the only firm awarded multi-year contracts for both Project Validation Assessments (market and engineering feasibility studies), and Request for Proposal Development for both design-bid-build and design-build projects.

BH's **Waterfront Engineering** services include:

- Pre-development services
- Feasibility assessments
- Regulatory compliance
- Environmental assessments
- Site evaluations and due diligence
- Waterfront programming and planning
- Support facilities

BH's **Marine Engineering** services include:

- Seaport facilities
- Marina facilities
- Waterfront recreation structures
- Piers and wharves
- Mooring analysis and structures
- Bulkheads, seawalls, and quay walls
- Shoreline protection and stabilization
- Structural condition assessments
- Flood protection
- Navigation structures
- Dry rack boat storage facilities
- Corrosion technologies

BH's **Coastal Engineering** services include:

- Coastal processes analysis
- Tidal and wave action studies
- Climate change and sea level rise studies
- Inlet analysis and design
- Breakwater structures
- Shore protection
- Beach re-nourishment programs
- Dredging studies and design
- Navigation issues
- Regulatory permitting
- Hydrographic surveys

3.0 PROFESSIONAL QUALIFICATIONS OF STAFF PERSONNEL/CAPACITY OF ASSIGNED AND IDENTIFIED STAFF TO ACCOMPLISH WORK

3.1 Qualifications of HCR Individuals

The following section presents to the City of Key West our key personnel selected for this contract. Due to the variety in scope of work, HCR has assembled experts with a diverse, varied experience capable or responding to the needs of the City of Key West. HCR offers the City of Key West a dedicated, highly qualified core contract team that will perform and manage all projects under this contract. Our commitment of a dedicated core team will promote high quality services by ensuring consistency and continuity of all operations performed under the contract. The quality of HCR personnel is the key to our consistent success in the work we do and has been pivotal to working within the State of Florida for over 22 years. Each member of the dedicated core team has been selected based on proven experience and qualifications in their area of technical or operational responsibility, as well as, availability to be dedicated to the City of Key West.

With HCR, the city of Key West will access the strong support of an established local team with resources already focused on providing the required Scope of Services to many governmental agencies within the State of Florida. HCR is strongly committed to being responsive to your every need and we provide a staff of sufficient size and appropriate qualifications to complete all work under this contract. Our proposed core team is not just a list of names with resumes, but a highly qualified, hand-picked group that is available to be devoted to the City of Key West.

The HCR staff, along with our team members and a complete equipment inventory, facilitate in-house staffing (project reviews, environmental management, liaison activities, and plan reviews), Phase I/II environmental assessment assessments, contaminated area management planning, site assessment reports, design and implementation of various forms of remediation, source and tank removals, asbestos/lead/mold surveys and abatements, dewatering treatment, and various construction support/management services. HCR brings an unmatched value to The City of Key West.

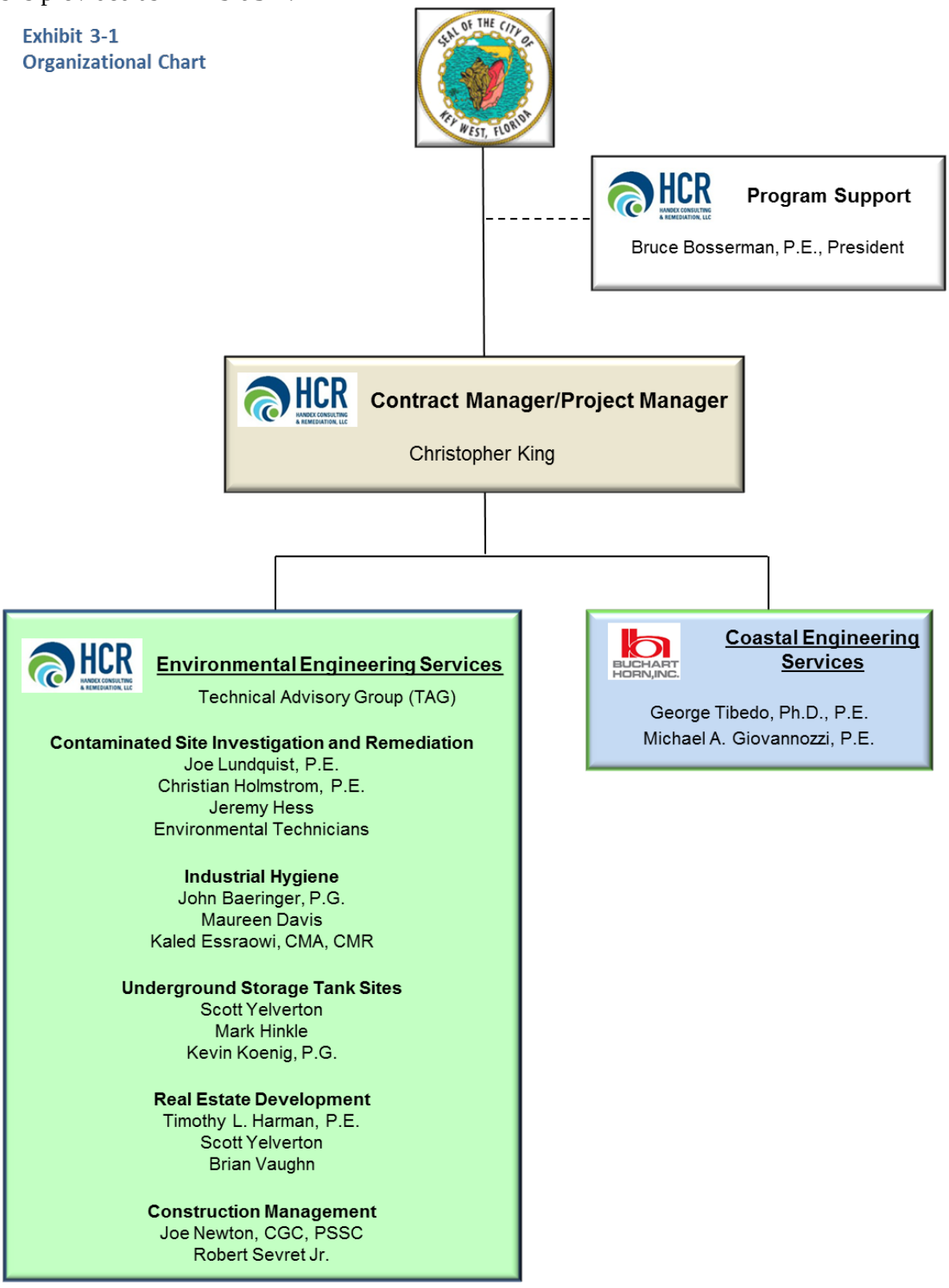
Our management approach is designed to provide a depth of resources while offering clear lines of responsibility and decision making authority that facilitate efficiency, responsiveness, and quality control. This organization does not restrict the resources that can be brought to bear for the City, but establishes a framework in which those resources can be most effective. We have customized our organization to fit the current and future service needs and approach desired by the city. We are committed to providing an organizational structure that:

- Understands the importance of protecting sensitive receptors and restoring Florida's natural resources to beneficial use and will collaborate and communicate with all stakeholders;
- Utilizes risk-based corrective action approaches which will meet the high standard of protection of human health and the environment under actual circumstances of exposure while achieving site goals;
- Has the experience and resources needed to comply with federal, state, and local regulatory requirements;

- Self-performs most work in a professional, efficient manner resulting in cost savings to the City ; and
- Supplies innovative, technical, and flexible solutions to save the City time and money.

Our proposed team to support the City of Key West with their environmental and coastal engineering needs is provided as **Exhibit 3-1**.

Exhibit 3-1
Organizational Chart



HCR is pleased to present Christopher King as Contract/Project Manager. Mr. King has significant experience with contamination assessments, remediation, storage tank removal and installation, and infrastructure/construction activities within contaminated areas. As the Contract Manager, Mr. King will be responsible for the day-to-day management of the contract, including administration, contract management, technical review/ implementation, and budget and cost control functions.

Mr. King is a senior project manager with over 18 years of environmental consulting experience and currently serves as General Manager for the HCR office in Fort Lauderdale. He has extensive experience in Program/Project Management and maintaining client relationships. Mr. King is experienced in scope and budget development, Quality Assurance & Quality Control (QA/QC), report generation/review and schedule/budget management for numerous petroleum and non-petroleum sites throughout the State of Florida. He has completed/managed large-scale Phase I/II environmental assessments, petroleum and non-petroleum contamination assessments, Underground Storage Tank (UST) and source removal, waste handling and disposal, construction oversight and coordination, pilot testing, operation and maintenance (O&M) of remediation systems, health and safety management, regulatory permitting and coordination, and emergency response. Mr. King is very knowledgeable with FDEP regulations and has evaluated conditional closure/risk based options through alternative cleanup target levels for retail gasoline stations, dry cleaning sites, industrial manufacturing facilities, and cattle dipping vats utilizing deed restrictions, current site conditions, and future site usage. Mr. King has also served as a program manager for major oil companies, rental car companies as well as other private sector clients throughout Florida and the U.S. Mr. King's expertise in consulting and client/regulatory relations has resulted in fast track remediation prior to construction/redevelopment activities, amounting to substantial cost savings on numerous projects. With his proven track record of successful project management and performance, Mr. King will be an important member of our partnership with the City of Key West.

Technical Advisory Group

HCR is fortunate and remarkable in its ability to assemble a team of highly educated and experienced experts in the areas of advanced technologies and sciences. The Technical Advisory Group (TAG) consists of experts in environmental regulatory compliance, wetlands impacts/NEPA compliance, risk management, stormwater, industrial hygiene, sustainable remediation, and innovative technologies (barriers, fast-track chemical injections). The goal of the TAG is to provide knowledgeable, value-added service to save The City of Key West time and money and to enhance effective project delivery and completion.

Detailed resumes of our personnel proposed for this opportunity are provided in **Appendix B**.

3.2 Workload Availability and Personnel Capacity

The HCR Contract Manager will coordinate resource needs for the contract. He has full authority to obligate HCR and/or subcontractor resources necessary to implement project requirements. HCR guarantees that we will deliver, within required time constraints, all resources necessary to handle any task assigned. The resources will be drawn primarily from our strategically located Ft. Lauderdale facility, with back-up resources provided from our other State-wide facilities.

The City will have immediate access to our staff at all times. Our Contract Manager Christopher King will serve as our lead contact and be in direct contact with the City. The City will be able to communicate directly with anyone on our staff as needed as well. HCR is available for response on a

24-hour basis, 7-days per week. We guarantee that we will respond with the appropriate personnel, equipment and materials within the requested time frames.

Exhibit 3-2 summarizes our current workload now and in 12 months for our Florida offices.

Exhibit 3-2
Current Workload Summary

Client	Current Authorized Dollars	Scope of Services	Lead Office	Estimated Completion Date of Tasked Projects
FDEP-Petroleum Contractor - Central Region	$ 65,809.00	Assessment & Remediation	Tampa & Orlando	7/1/2014
FDEP-Petroleum Contractor - South Region	$ 70,000.00	Assessment & Remediation	Ft. Lauderdale	12/31/2014
Florida Turnpike Enterprise	$ 787,000.00	Assessment & Remediation	Orlando	6/30/2014
Florida Department of Transportation, District 4	$ 1,000,000.00	Assessment & Remediation	Ft. Lauderdale	10/28/2014
LSSI Sites - North	$ 345,176.00	Limited Assessments	Tallahassee	04/30/2014-9/1/2014
LSSI Sites - Central	$ 35,600.00	Limited Assessments	Tampa & Orlando	5/30/2014
LSSI Sites - South	$ 215,000.00	Limited Assessments	Ft. Lauderdale	10/31/2014
Hillsborough County Sheriff's Office	$ 30,662.00	Shooting Range Remediation	Tampa	5/30/2014
PEECO	$ 312,000.00	Assessment & Remediation	Ft. Lauderdale	6/30/2014
Private (Cash) Sector South Region	$ 60,000.00	Assessment & Remediation	Ft. Lauderdale	12/31/2014
Miami-Dade Aviation Department (MDAD)	$ 71,000.00	Tennant Audits	Ft. Lauderdale	12/31/2015

4.0 PAST WORK EXPERIENCE

HCR and our coastal engineering partner, Buchart Horn, Inc., have extensive experience in the scope of services that may be required by the City of Key West. **Appendix C** includes detailed project profiles showcasing our diverse technical capabilities.

- ✓ Florida Department of Transportation Local Agency Program (LAP), Glynn Archer Dr./14th St. - Reconstruction - Roosevelt Blvd. to Flagler Ave., Key West, Florida
- ✓ Port Everglades Environmental Corporation, Environmental Assessment, Design, Installation, Operation and Maintenance of Free Product Recovery System, Tidal Studies, Exfiltration Tests, Environmental Liability Management
- ✓ Spill Prevention, Control, and Countermeasure (SPCC) Plans, Palm Beach County, Florida
- ✓ Okahumpka Service Plaza Remedial Action Plan and Implementation, Florida's Turnpike Enterprise
- ✓ E. Blue Heron Blvd& SR-5 (US-1) Subsurface Groundwater Cut-off Wall Installation
- ✓ Site Assessments at Multiple Water and Sewer Pump Stations, Miami-Dade Water and Sewer Department
- ✓ Florida's Turnpike Enterprise, Comprehensive Contamination, Assessment, and Remediation Services
- ✓ Hialeah Rail Yard Emergency Response, Sampling and Analytical Testing, Hazardous Materials Handling, and Environmental Assessment, and Environmental Training
- ✓ Asbestos, Lead, and Mold Surveys and Abatement, Multiple Structures and Facilities in FDOT District Four
- ✓ Former Pharmaceutical Lab Decommissioning
- ✓ In-House Technical Support, Roadway Plan and Project Review and NEPA Support
- ✓ Environmental Compliance Audits, Multiple Tenants within Miami-Dade International Airport
- ✓ Lead Removal, Hillsborough County Firing Range
- ✓ Canal Dock and Long Wharf Redevelopment Connecticut Department of Transportation, New Haven, CT
- ✓ Fronting Protection for Jefferson Parish Pumping Stations USACE New Orleans District, Louisiana
- ✓ Mulberry Cove Marina Expansion Jacksonville Naval Air Station, Jacksonville, Florida

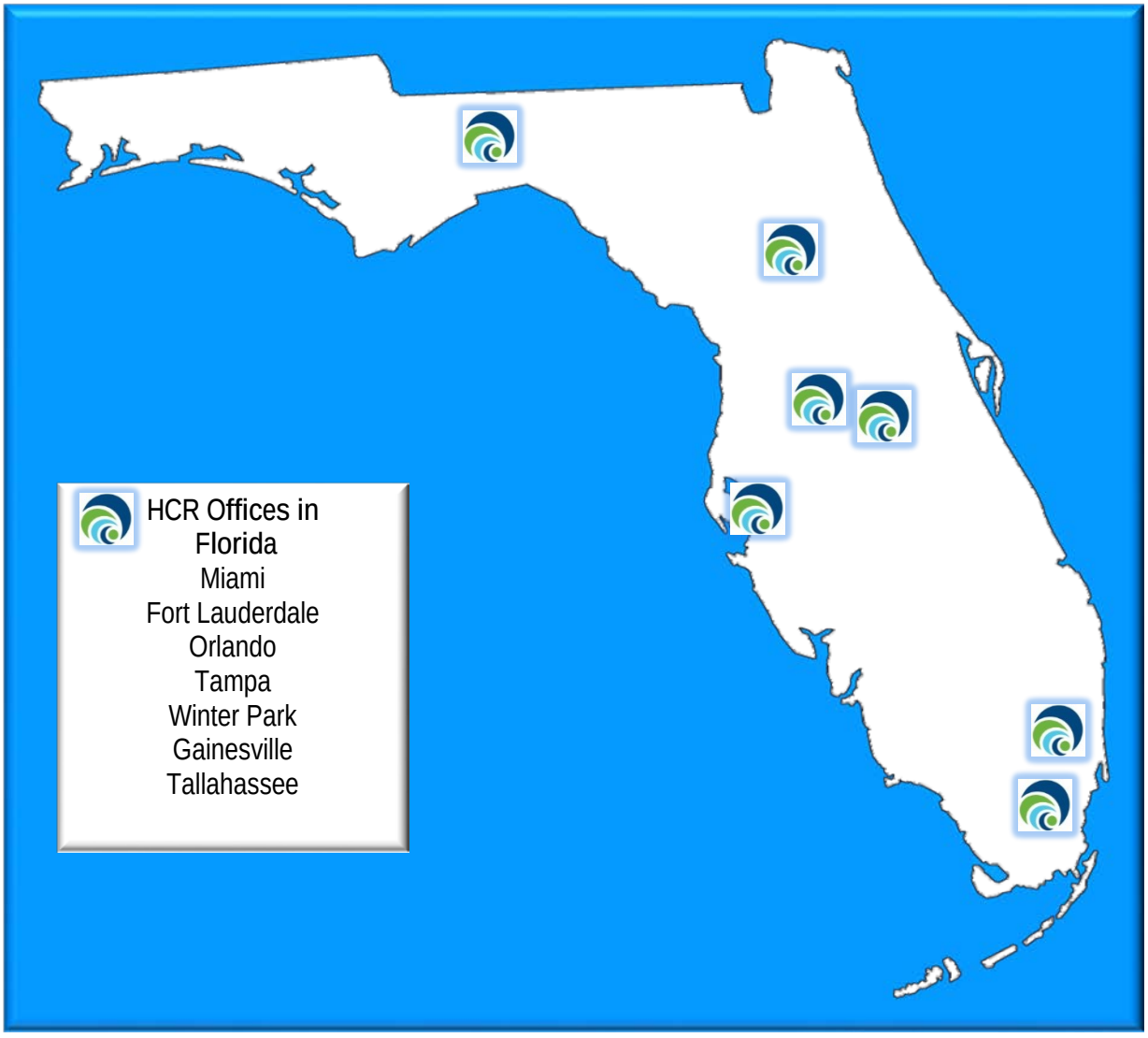
5.0 ABILITY TO PERFORM THE SERVICES EXPEDITIOUSLY/LOCATION AND AVAILABILITY OF TECHNICAL SUPPORT PEOPLE AND CONTRACT MANAGER

5.1 Availability & Location

HCR offers the City a dedicated, highly qualified core contract team that will perform and manage all projects under this contract. Our commitment of a dedicated core team will promote high quality services by ensuring consistency and continuity of all operations performed under the contract. HCR guarantees the availability of all personnel or equipment that City may require to meet the demands of this contract. In addition to the dedicated core team, HCR offers the services of 70 additional employees in our established Florida facilities and 55 from outside the State of Florida.

A key benefit of the HCR Ft. Lauderdale location is its convenient position relative to the City of Key West with easy access to in less than 3.5 hours. The HCR Florida facility locations and are shown in **Figure 1**.

Figure 1. HCR Florida Facility Locations

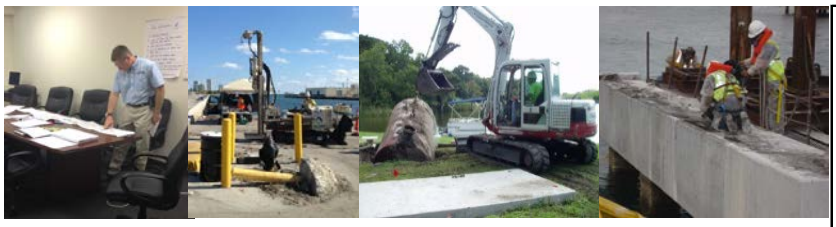


Our proposed Contract Manager, as well as much of the technical staff, is located in our Ft Lauderdale office. If a needed resource cannot be provided within the required time frame from our Ft. Lauderdale facility, we will mobilize it from another Florida facility. The tracking, allocation, and mobilization of resources to job sites is a routine part of our business, and we have in place well-defined procedures to ensure that all required resources are delivered in a timely and cost-effective manner.

Whether for planned or expedited response, HCR strongly commits to providing the City with all necessary personnel, equipment, and supplies within the specified time frame.

Key Personnel experience, location, and dedication commitments to the City of Key West are provided in **Exhibit 5-1**.

Exhibit 5-1 Company Experience and Key Personnel Experience, Education, and Dedication



	Environmental Investigation or Rehabilitation	UST Site Services	Construction Management	Environmental Construction	Real Estate Development	Permitting	Other (General Environmental)	Coastal Engineering
Projects Performed	>1000	>1000	>1000	>600	>300	>900	>100	>100

Proposed Key Personnel Contract Assignment Experience

Personnel	Contract Role	Years Exp.	Location	Availability based on workload	Experience Level of personnel shown as H-High, M-Moderate, L-Low							
C. King	Contract/Project Management	18	Ft. Lauderdale	100%	H	H	H	M	H	H	H	L
T. Harman, PE	Technical Support - Engineering & Real Estate	20	Ft. Lauderdale	50%	H	H	H	H	H	H	H	M
K. Koenig, PG	Technical Support - Assessment	15	Ft. Lauderdale	80%	H	H	M	M	H	H	H	L
S. Yelverton	Technical Support - Assessment	13	Ft. Lauderdale	80%	H	H	H	H	H	H	H	L
J. Baeringer, PG	Technical Support - Assessment, Permitting, Regulatory	28	Ft. Lauderdale	50%	H	H	H	H	H	H	H	L
C. Holmstom, PE	Technical Support - Engineering	15	Tampa	75%	H	H	H	H	H	H	H	L
J. Lundquist, PE	Technical Support - Engineering	19	Tampa	75%	H	H	H	H	H	H	H	L
K. Essraowi, CMA, CMR	Technical Support - Assessment	10	Ft. Lauderdale	50%	H	H	H	H	H	H	H	L
J. Hess	Technical Support - Engineering	6	Tampa	75%	H	H	H	H	H	H	H	L
M. Hinkle	Site Rehabilitation/ Construction	30	Ft. Lauderdale	100%	M	M	M	H	H	H	H	L
J. Newton, GC & PSSC	Construction Management	>30	Tampa	50%	M	M	M	H	H	H	H	L
R. Sevret	Construction Management	15	Orlando	25%	H	H	H	H	H	H	H	M
G. Tibedo, PE	Coastal Engineering	26	Lake Placid	35%	H	M	H	H	H	H	H	H
M. Giovannozzi, PE	Coastal Engineering	14	Lake Placid	50%	H	M	H	H	H	H	H	H
M. Davis	Health & Safety Manager	19	Orlando	50%	H	H	H	M	H	H	H	L

5.2 Management Approach

HCR knows that accurate and responsive communications, planning, estimating, tracking, reporting and invoicing are all part of managing a safe and effective project. Our dedicated management

structure will ensure projects meet or exceed project schedules and budgets in a safe and effective manner through:

- ✓ Empowered, experienced key personnel;
- ✓ Dedicated, experienced support personnel;
- ✓ Established, reliable, and responsive lines of communication;
- ✓ Readily available, up-to-date and reliable equipment;
- ✓ Depth of available resources to manage all planned and unforeseen projects.

5.3 Coordination and Communication Between HCR and The City of Key West

HCR knows that effective coordination and communication with you are critical to the success of this contract. Our standard for clear and timely communications, both formal and informal, is an integral part of our operations and contributes greatly to the quality and responsiveness of our services. This section highlights our methods and tools for communication throughout the contract and for each project.

City/HCR Interface

HCR has several methods to maintain extremely efficient communication with our clients. We fully understand the value of personal working relationships in our business and, despite the advent of powerful tools for electronic communication, verbal communication is still an important part of our service. We will report to you through formal and informal face-to-face meetings, email, and telephone conversations. HCR will also utilize various technologies to ensure effective communication and document management, as applicable. These include, but are not limited to, the following:

- ➢ Use of GoToMeetings/JoinMe software to facilitate quick and easy review of documents (analyticals, Work Plans & Cost Estimates, plans, etc.). This system facilitates communication via a conference call and concurrent review of the document under review.
- ➢ Use of Sharepoint™ site as a depository for all project documents ensuring access to involved parties
- ➢ Use of project-specific, secure web pages, as applicable, with production and pertinent information posted daily.

These options allow for anytime access to project information and relevant data. Our systems will always be available and accessible.

City personnel will have direct access to our Contract Manager and other key personnel at all times via our 24 hour toll free phone number. A call from any of City's authorized representatives will be treated as a priority. To supplement this system, HCR will provide City personnel with a call list that provides the home, office and cellular numbers of all key contract personnel. Additionally, we will provide detailed weekly project updates via email which has been utilized successfully in the past for project communications.

Program coordination and interaction are also simplified by electronic communication. Project Managers have lap top computers with wireless internet access for immediate connection to the HCR

network. This allows field daily report forms to be completed in the field and transmitted each day directly into the HCR system, which allows for regular schedule updates and cost tracking.

5.4 Subcontractor Management

HCR will perform the vast majority of the services required using HCR personnel, facilities, and equipment. A limited portion of the work will be completed by qualified subcontractors who will be retained on a project-specific basis. Subcontracted services will include certain "specialty" tasks, such as laboratory analytical services, drilling services, waste transportation, and off-site treatment and disposal. As previously stated, BH will provide coastal engineering services.

HCR guarantees that all subcontractors will provide a plan of action to maintain required schedules to provide an acceptable safety and quality assurance plan that aligns with HCR and Agency requirements. We will ensure that only the required industry groups appear on site and that subcontractor cross-over does not result in delays.

5.5 Quality Control Program

The objective of the HCR Core Team is to provide "best value" to the City. The ability to offer "best value" project delivery speaks directly to the very spirit of our company. We define best value services as those which assure that project requirements are met with high quality, within design specifications, guaranteed safety, and reasonable cost within the time constraints of the established schedule. But best value can only be acceptable if the quality assurance and control features are in line with corporate, client, regulatory and project requirements.

HCR is committed to quality assurance in the performance of all our work. HCR maintains a structured Quality Assurance (QA) program. The major goal of a QA program is to confirm that all work performed, materials supplied, and data generated for a project are of known quality. The QA is designed to use monitoring, audit, and surveillance functions as tools of management to confirm that all project operations are executed in a manner that will protect public health and safety, ensure data quality objectives are met, meet design specifications and meet or exceed contract requirements. Project level audits are conducted monthly by each project or contract manager. These audits include a site visit (if applicable) to evaluate compliance with regulatory standards, project specifications, and operating procedures. All audit results are reviewed by the entire project team and recommendations and process improvements are implemented immediately. Corporate audits are conducted on a selected basis.

HCR' plan for ensuring quality control throughout our organizational structure focuses on two primary areas: internal quality control and external (subcontractor) quality control. Internal quality control encompasses all field work, regulatory compliance, documentation, and deliverables. External quality control encompasses our commitment to ensuring that all HCR subcontractors provide the highest quality products and services.

Internal Quality Control

Planning

HCR understands that data collected and documentation from the field must be accurate, in compliance with standard operating procedures, and be reliable. It is this data that facilitates an overall understanding of site conditions, and serves as the basis for our analysis, recommendations and restoration approaches. In an effort to ensure appropriate field activity methodologies and accurate collection of applicable data, HCR utilizes several approaches to ensure this is obtained consisting of but not limited to:

- ✓ Field project kickoff meetings prior to mobilization to the field. Participants include the contract manager, project manager, task leader, and the field personnel (as appropriate based on scope of work). The project kickoff meeting consists of a thorough review of the scope of work to be conducted, contact information (internal and external), budget, schedule, etc.
- ✓ Formalized training programs consisting of mentorship programs. All field efforts are conducted with a lead scientist/construction manager (as applicable) with proven knowledge/experience to ensure the scope of work is properly executed and that all activities are completed within SOPs and/or drawings and specifications (as applicable). These include, but are not limited to: analytical laboratory sample procedures; equipment calibration; proper equipment decontamination; chain of custody; compaction requirements, etc.
- ✓ Field audits conducted by senior technical personnel. Our senior technical personnel are required to conduct un-announced field audits to ensure compliance with the health & safety plans, FDEP SOPs, documentation and field logging, sampling and analysis plans, etc. This audit is documented and a "findings" report is submitted to the appropriate contract/project manager and the field staff. Any deficiencies are documented with a specified date for correction.

Execution (Documentation, Data Collection, Compliance)

Execution of field work must comply with the approved scope of work, plans and specifications, and conducted within all applicable state and local requirements. Documentation of how the field activities were executed is critical in ensuring that all work elements were conducted appropriately. HCR' QA program consists of reviews/audits consisting of, but not limited to, the following key components:

- ➢ Safety Plan compliance and logs
- ➢ Field documentation (log book, as-built drawings, daily reports, etc.)
- ➢ Laboratory QA/QC documentation
- ➢ Plan and specification compliance/as-built documents (POs, material specification sheets, vendor receipts, field test results, etc.)
- ➢ Budget and schedule

Reporting / Deliverables

HCR mandates a strict peer review and final technical review process to ensure the data reported is accurate and to maintain HCR' internal quality control objectives. All figures and tables are checked by other technical support staff before being forwarded to the Contract Manager and appropriate registered professionals for review, signature, and seal. HCR understands that our quality assurance procedures must be implemented without interfering with the task assignment schedule.

External Quality Control

External quality control, or control of the quality of our subcontractor's work, is a critical component of successful project management. HCR minimizes this potential problem by self-performing most work and only using subcontractors that have a demonstrated track record of successful performance for HCR where possible. Procurement of quality subcontractors and subsequent management of their work are the two keys to successful subcontractor performance. Subcontract administration is also the responsibility of the HCR Contract Manager or his designated management personnel. Subcontract administration functions include, but are not limited to, the following:

- ✓ Conducting pre-performance/post-award conferences and issuing notices to proceed
- ✓ Receiving and processing submittals, including requests for payment
- ✓ Monitoring progress to ensure compliance with subcontract requirements, including quality control and safety standards
- ✓ Assisting in the preparation of findings of fact in regard to disputes
- ✓ Identifying, negotiating, and documenting subcontract changes
- ✓ Maintaining detailed documentation of the subcontract files

HCR controls subcontractor performance through direct supervision and monitoring, implementation of subcontractor quality control requirements, and development of progress schedules and progress reports. We require each subcontractor to implement a quality control plan sufficient to ensure compliance with the subcontract requirements and all federal, state, and local environmental laws and regulations. The plan must address field-testing, laboratory testing, submittal of materials for approval, reporting and other requirements necessary to ensure compliance. In addition, all subcontractor personnel must comply with the requirements of the HCR Health and Safety Plan and be appropriately licensed and certified in their service area.

For large projects, HCR requires each subcontractor to participate in the development of a progress schedule as a baseline for completion of the subcontracted work within the established performance period. Progress against the schedule is monitored through performance meetings and regular progress reports prepared by both the subcontractor and HCR. Any discrepancies in performance, schedule or other areas are identified and addressed expeditiously. No payments are made until the subcontracted work is satisfactorily completed. Any unauthorized subcontractor activities are not reimbursed. Penalty clauses for delay are typically included in HCR's subcontractor contracts.

Permitting and Licensing

HCR follows all applicable rules and regulations of EPA, FDEP and other pertinent federal, state, and/or local authorities. The following subsections outline our understanding of the federal, state and local laws, rules, regulations and codes that will govern activities performed under this contract. HCR is a veteran in the industry has formed relationships with many regulators throughout the state and nationwide. Throughout the life of this contract HCR will obtain and maintain all permits and licenses required to execute the work.

Federal Regulations

We offer an intimate knowledge of federal regulations governing the assessment, remediation, and disposal of hazardous wastes. These regulations include the Clean Water Act; the Clean Air Act; the NEPA; the RCRA, as amended by the 1984 Hazardous and Solid Waste Amendments (HSWA); the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund); the Hazardous Materials Transportation Uniform Safety Act of 1990; the Toxic Substance Control Act (TSCA), and the land disposal requirements of Title 40, Chapter 1, Subchapter 1, Part 268 of the Code of Federal Regulations (40 CFR Part 268).

State Regulations

HCR is extremely familiar with Florida environmental regulations contained in Chapter 62 of the FAC, and we maintain close working relationships with FDEP at the district and central office levels. With our direct experience with contracts with the FDEP and in our experience with FDOT contracts, many of the projects involve petroleum products and are, therefore, regulated under Chapter 62-770, FAC. As part of our service offering we will provide all documentation to comply with Petroleum Contamination Site Cleanup Requirements; Reimbursement for Petroleum Contamination Site Cleanup Requirements; and, Hazardous Materials Cleanup Requirements.

In addition to the guidelines governing petroleum contamination, HCR is intimately familiar with guidelines set by the state regulatory agencies regarding chlorinated solvents, pesticides, lead, and other contaminants.

Our understanding of state environmental regulations, unique working relationships with FDEP personnel and familiarity with procedures enable HCR to better represent the City in all work performed under this contract, particularly when work is under strict time and budget constraints.

Local Regulations

HCR is also experienced in dealing with local regulatory agencies, including the Water Management Districts, county agencies, and city departments. HCR routinely interacts with these agencies with respect to water quality, permitting, site rehabilitation standards and wetlands mitigation to minimize impacts to projects.

HCR commits to providing all the necessary resources to execute all projects on time, on schedule, and on budget. We offer a diverse technical staff with an expansive background in providing environmental services in a variety of settings. As described through our project references, personnel resumes, and our management approach, HCR is takes great pride in working in a partnership with our clients to proactively and cost effectively address their environmental challenges.

6.0 OTHER CERTIFICATIONS

HCR is pleased to provide the following certifications as additional evidence of HCR's qualifications, abilities, and licensing to perform the scope of services required by The City of Key West.

State of Florida Secretary of State Certification
Florida Department of Business Professional Regulation Certificate of Authorization
State of Florida Board of Professional Engineering Company
State of Florida Professional Geology Company
State of Florida Certified General Contractor Company
State of Florida Pollutant Storage Systems Contractor Company
Certificate of Liability Insurance

Individual staff licenses and certifications are provided as further evidence of HCR's qualifications and abilities with their individual resumes in **Appendix B**.

State of Florida
Department of State

I certify from the records of this office that HANDEX CONSULTING AND REMEDIATION - SOUTHEAST, LLC, is a limited liability company organized under the laws of the State of Florida, filed on December 5, 2005.

The document number of this company is L05000116305.

I further certify that said company has paid all fees due this office through December 31, 2013, that its most recent annual report was filed on April 23, 2013, and its status is active.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twenty-fourth day of February, 2014

Ken Detzner

Secretary of State

Authentication ID: CU5172479501

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

https://efile.sunbiz.org/certauthver.html

Florida Department of Business & Professional Regulation

DBPR ONLINE SERVICES

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- Search for a Licensee
- Apply for a License
- View Application Status
- Find Exam Information
- File a Complaint
- AB&T Delinquent Invoice & Activity List Search

Licensee Details

Licensee Information

Name:	**Handex Consulting and Remediation - Southeast, LLC (Primary Name)**
	(DBA Name)
Main Address:	**1350 ORANGE AVENUE** **STE. 101** **WINTER PARK Florida 32789**
County:	**ORANGE**
License Mailing:	
LicenseLocation:	

License Information

License Type:	**Certificate of Authorization**
Rank:	**Cert of Auth**
License Number:	**26812**
Status:	**Current**
Licensure Date:	**02/14/2006**
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

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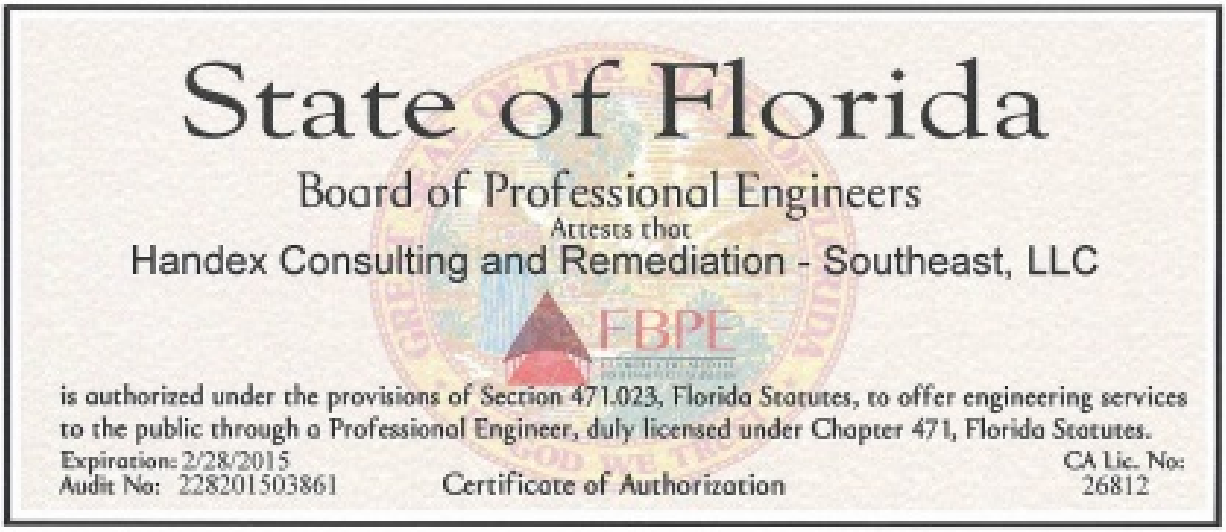
Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *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.



State of Florida

Board of Professional Engineers

Attests that

Handex Consulting and Remediation - Southeast, LLC

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: 228201503861

Certificate of Authorization

CA Lic. No: 26812

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL GEOLOGISTS (850) 487-1395
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

HANDEX CONSULTING AND REMEDIATION SOUTHEAST LLC
1350 ORANGE AVENUE
SUITE 101
WINTER PARK FL 32789

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto **www.myfloridalicense.com**. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!

STATE OF FLORIDA AC# 6124743
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

GB522 05/10/12 118183279

GEOLOGY BUSINESS
HANDEX CONSULTING AND REMEDIATIO

IS CERTIFIED under the provisions of Ch.492 FS
Expiration date: JUL 31, 2014 L12051001354

DETACH HERE

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AC# 6124743

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

SEQ# L12051001354

DATE	BATCH NUMBER	LICENSE NBR
05/10/2012	118183279	GB522

The GEOLOGY BUSINESS
Named below IS CERTIFIED
Under the provisions of Chapter 492 FS.
Expiration date: JUL 31, 2014

HANDEX CONSULTING AND REMEDIATION SOUTHEAST LLC
1350 ORANGE AVENUE
SUITE 101
WINTER PARK FL 32789

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD (850) 487-1395
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATION - SOUTHEAST LLC
6756 EDGEWATER COMMERCE PKWY
SUITE 200
ORLANDO FL 32810

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Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!

STATE OF FLORIDA AC# 6192434
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CGC062681 07/09/12 128005365

CERTIFIED GENERAL CONTRACTOR
NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATIO

IS CERTIFIED under the provisions of Ch.489 FS
Expiration date: AUG 31, 2014 L12070901050

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STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L12070901050

DATE	BATCH NUMBER	LICENSE NBR
07/09/2012	128005365	CGC062681

The GENERAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2014

NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATION - SOUTHEAST LLC
6756 EDGEWATER COMMERCE PKWY
SUITE 200
ORLANDO FL 32810

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD (850) 487-1395
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATION - SOUTHEAST LLC
6756 EDGEWATER COMMERCE PKWY
SUITE 200
ORLANDO FL 32810

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STATE OF FLORIDA AC# 6192562
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

PCC055742 07/09/12 128005365

CERT POLLUTANT STORAGE SYS CONTR
NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATIO

IS CERTIFIED under the provisions of Ch.489 FS
Expiration date: AUG 31, 2014 L12070901178

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STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L12070901178

DATE	BATCH NUMBER	LICENSE NBR
07/09/2012	128005365	PCC055742

The POLLUTANT STORAGE SYSTEMS CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2014

NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATION - SOUTHEAST LLC
6756 EDGEWATER COMMERCE PKWY
SUITE 200
ORLANDO FL 32810

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 9/30/2013

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	CONTACT NAME: Rachel Dobbs
SIHLE INSURANCE GROUP, INC. P.O. BOX 160398 Allen Foster ALTAMONTE SPRINGS FL 32716	PHONE (A/C, No, Ext): 407-389-8482 FAX (A/C, No): 407-389-8462 E-MAIL ADDRESS: rdobbs@sihle.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Steadfast Insurance Company	26387
INSURER B : Zurich-American Ins. Group	16535
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED	HANDE-2
Handex Consulting & Remediation, LLC Handex Consulting & Remediation - Southeast, LLC 1350 Orange Ave., Suite 101 Winter Park FL 32789	

COVERAGES **CERTIFICATE NUMBER:** 639646976 **REVISION NUMBER:**

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	
B	GENERAL LIABILITY			GLO9319112-01	10/1/2013	10/1/2014	EACH OCCURRENCE	$1,000,000
	X COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$100,000
	CLAIMS-MADE X OCCUR						MED EXP (Any one person)	$5,000
	X XCU Included						PERSONAL & ADV INJURY	$1,000,000
	X Contractual Liab						GENERAL AGGREGATE	$2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG	$2,000,000
	POLICY X PRO-JECT LOC							$
B	AUTOMOBILE LIABILITY			BAP9326212-03	10/1/2013	10/1/2014	COMBINED SINGLE LIMIT (Ea accident)	$1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	ALL OWNED AUTOS / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS / X NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
								$
A	X UMBRELLA LIAB X OCCUR			AUC6553980-03	10/1/2013	10/1/2014	EACH OCCURRENCE	$5,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$5,000,000
	DED X RETENTION $ -0-							$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N	N / A		WC9326214-03	10/1/2013	10/1/2014	X WC STATU-TORY LIMITS / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E.L. EACH ACCIDENT	$1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$1,000,000
							E.L. DISEASE - POLICY LIMIT	$1,000,000
A	Professional Liability Pollution Liability			PEC6553977-03	10/1/2013	10/1/2014	Occurrence Aggregate Deductible	$7,000,000 $7,000,000 $25,000

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

NAMED INSURED: HANDEX CONSULTING & REMEDIATION - SOUTHEAST, LLC
1350 Orange Ave. #101, Winter Park, FL 32789
6756 Edgewater Drive, Orlando, FL 32810
6555 North Powerline Road, Suites 309 & 310, Fort Lauderdale, FL 33309
1202 Tech Blvd., Suite 204, Tampa, FL 33619
3031 Eliza Road, Suite 2, Tallahassee, FL 32308
See Attached...

CERTIFICATE HOLDER

FOR INFORMATION ONLY
PLEASE FAX ALL CERTIFICATE HOLDER INFORMATION
& REQUESTS TO 407-389-3580 OR SEND EMAIL TO CERTIFICATES@SIHLE.COM FL 32716

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

AGENCY CUSTOMER ID: HANDE-2

LOC #:

ACORD

ADDITIONAL REMARKS SCHEDULE

Page 1 of 1

AGENCY	NAMED INSURED
SIHLE INSURANCE GROUP, INC.	Handex Consulting & Remediation, LLC Handex Consulting & Remediation - Southeast, LLC 1350 Orange Ave., Suite 101 Winter Park FL 32789
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

RENTED/LEASED EQUIPMENT COVERAGE:
Zurich American Insurance Company
Policy #CPP6554402 Effective 10/1/13 - 10/1/14
$1,000,000 Limit - $5,000 Deductible

*30 Days Notice of Cancellation, *10 Days Notice of Cancellation for Non-Payment of Premium.

"Blanket" Additional Insured Including Completed Operations, Primary and Non-Contributory Coverage, and "Blanket" Waiver of Subrogation Endorsements apply to the General Liability when required by written contract.

"Blanket" Waiver of Subrogation Endorsement applies to Workers Compensation when required by written contract.

Excess Liability is Following Form in excess of the underlying General Liability, Automobile Liability and Workers Compensation/Employers Liability.

Explosion, Collapse, and Underground Hazards Coverage included.
* For Bid and/or Informational Purposes Only *

ACORD 101 (2008/01)

APPENDIX A

REQUIRED FORMS

The following forms are provided in this Appendix as required by the Request for Qualification documents.

Anti-Kickback Affidavit
Public Entity Crimes Certification
Equal Benefits for Domestic Partners Affidavit
Cone of Silence Affidavit
Addendum 1 Acknowledgement

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
: SS
COUNTY OF Orange)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: Bruce Bosserman

Bruce Bosserman, President
Handex Consulting &
Remediation - Southeast, LLC

Sworn and subscribed before me this

1st Day of July, 2014.

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 9/8/15

ANITA V. THOMAS
MY COMMISSION # EE128727
EXPIRES: September 08, 2015
1-800-3-NOTARY Fl. Notary Discount Assoc. Co.

SWORN STATEMENT UNDER SECTION 287.133(3)(a)
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid, Bid or Contract No. RFQ No. 14-004 for Environmental Engineering Services

2. This sworn statement is submitted by Handex Consulting & Remediation - Southeast, LLC
(Name of entity submitting sworn statement)

whose business address is 1350 Orange Avenue, Suite 101, Winter Park, FL 32789

and (if applicable) its Federal Employer Identification Number (FEIN) is 20-3908156 (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement.)

3. My name is Bruce Bosserman and my relationship to
(Please print name of individual signing)

the entity named above is President.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(l)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means

   1. A predecessor or successor of a person convicted of a public entity crime: or

   2. An entity under the control of any natural person who is active in the management of t entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural

person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

X Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

___There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

___The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

___The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of Environmental Services.)

Bruce Bosserman
(Signature)

7/1/14
(Date)

STATE OF Florida

COUNTY OF Orange

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

Bruce Bosserman who, after first being sworn by me, affixed his/her signature in the
(Name of individual signing)

space provided above on this 1st day of July, 2014.

My commission expires: 9-8-15
NOTARY PUBLIC

ANITA V. THOMAS
MY COMMISSION # EE128727
EXPIRES: September 08, 2015
1-800-3-NOTARY Fl. Notary Discount Assoc. Co.

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF FLORIDA)
: SS
COUNTY OF Orange)

I, the undersigned hereby duly sworn, depose and say that the firm of Handex Consulting & Remediation - Southeast, LLC provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

By: Bruce Bosserman
Bruce Bosserman, President

Sworn and subscribed before me this

1st Day of July, 2014.

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 9-8-15

ANITA V. THOMAS
MY COMMISSION # EE128727
EXPIRES: September 08, 2015
1-800-3-NOTARY Fl. Notary Discount Assoc. Co.

CONE OF SILENCE AFFIDAVIT

STATE OF Florida)
: SS
COUNTY OF Orange)

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of Handex Consulting & Remediation - Southeast, LLC have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence (attached).

Bruce Bosserman

Bruce Bosserman, President

Sworn and subscribed before me this

1st Day of July, 2014.

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 9/8/15

ANITA V. THOMAS
MY COMMISSION # EE128727
EXPIRES: September 08, 2015
Fl. Notary Discount Assoc. Co.
1-800-3-NOTARY

Sec. 2-773. Cone of Silence

(a) Definitions. For purposes of this section, reference to one gender shall include the other, use of the plural shall include the singular, and use of the singular shall include the plural. The following definitions apply unless the context in which the word or phrase is used requires a different definition:

1) *Competitive Solicitation* means a formal process by the City of Key West relating to the acquisition of goods or services, which process is intended to provide an equal and open opportunity to qualified persons and entities to be selected to provide the goods or services. Completive Solicitation shall include request for proposals ("RFP"), request for qualifications ("RFQ"), request for letters of interest ("RFLI"), invitation to bid ("ITB") or any other advertised solicitation.

2) *Cone of Silence* means a period of time during which there is a prohibition on communication regarding a particular Competitive Solicitation.

3) *Evaluation or Selection Committee* means a group of persons appointed or designated by the City to evaluate, rank, select, or make a recommendation regarding a Vendor or the Vendor's response to the Competitive Solicitation. A member of such a committee shall be deemed a city official for the purposes of subsection (c) below.

4) *Vendor* means a person or entity that has entered into or that desires to enter into a contract with the City of Key West or that seeks an award from the City to provide goods, perform a service, render an opinion or advice, or make a recommendation related to a Competitive Solicitation for compensation or other consideration.

5) *Vendor's Representative* means an owner, individual, employee, partner, officer, or member of the board of directors of a Vendor, or a consultant, lobbyist, or actual or potential subcontractor or sub consultant who acts at the behest of a Vendor in communicating regarding a Competitive Solicitation.

(b) Prohibited Communications: A Cone of Silence shall be in effect during the course of a Competitive Solicitation and prohibit:

1) Any communication regarding a particular Competitive Solicitation between a potential Vendor or Vendor's Representative and the City's administrative staff including, but not limited to, the city manager and his or her staff;

2) Any communication regarding a particular Competitive Solicitation between a potential Vendor or Vendor's Representative and the Mayor, City Commissioners, or their respective staff;

3) Any communication regarding a particular Competitive Solicitation between a potential Vendor or Vendor's Representative and any member of a City evaluation and/or selection committee therefore; and

4) Any communication regarding a particular Competitive Solicitation between the Mayor, City Commissioners, or their respective staff, and a member of a City evaluation and/or selection committee therefore.

(c) Permitted Communications: Notwithstanding the foregoing, nothing contained herein shall prohibit:

1) Communication between members of the public who are not Vendors or a Vendor's representative and any city employee, official or member of the City Commission;

2) Communications in writing at any time with any city employee, official or member of the City Commission, unless specifically prohibited by the applicable Competitive Solicitation.

(A) However, any written communication must be filed with the City Clerk. Any City employee, official or member of the City Commission receiving or making any written communication must immediately file it with the City Clerk.

(B) The City Clerk shall include all written communication as part of the agenda item when publishing information related to a particular Competitive Solicitation.

3) Oral communications at duly noticed pre-bid conferences;

4) Oral presentations before publically noticed evaluation and/or selection committees;

5) Contract discussions during any duly noticed public meeting;

6) Public presentations made to the City Commission or advisory body thereof during any duly noticed public meeting;

7) Contract negotiations with city staff following the award of a Competitive Solicitation by the City Commission; or

8) Purchases exempt from the competitive process pursuant to section 2-797 of these Code of Ordinances.

(d) Procedure

1) The Cone of Silence shall be imposed upon each Competitive Solicitation at the time of Public Notice of such solicitation as provided by section 2-826 of this Code. Public notice of the Cone of Silence shall be included in the notice of the Competitive Solicitation. The city manager shall issue a written notice of the release of each Competitive Solicitation to the affected departments, with a copy thereof to each Commission member, and shall include in any public solicitation for goods and services a statement disclosing the requirements of this ordinance.

2) The Cone of Silence shall terminate at the time the City Commission or other authorized body makes final award or gives final approval of a contract, rejects all bids or responses to the Competitive Solicitation, or takes other action which ends the Competitive Solicitation.

3) Any City employee, official or member of the City Commission that is approached concerning a Competitive Solicitation while the Cone of Silence is in effect shall notify such individual of the prohibitions contained in this section. While the Cone of Silence is in effect, any City employee, official or member of the City Commission who is the recipient of any oral communication by a potential Vendor or Vendor's Representative in violation of this section shall create a written record of the event. The record shall indicate the date of such communication, the persons with whom such communication occurred, and a general summation of the communication.

(e) Violations/penalties and procedures.

1) A sworn complaint alleging a violation of this ordinance may be filed with the City Attorney's office. In each such instance, an initial investigation shall be performed to determine the existence of a violation. If a violation is found to exist, the penalties and process shall be as provided in section 1-15 of this Code.

2) In addition to the penalties described herein and otherwise provided by law, a violation of this ordinance shall render the Competitive Solicitation void at the discretion of the City Commission.

3) Any person who violates a provision of this section shall be prohibited from serving on a City of Key West advisory board, evaluation and/or selection committee.

4) In addition to any other penalty provided by law, violation of any provision of this ordinance by a City of Key West employee shall subject said employee to disciplinary action up to and including dismissal.

5) If a Vendor is determined to have violated the provisions of this section on two more occasions it shall constitute evidence under City Code section 2-834 that the Vendor is not properly qualified to carry out the obligations or to complete the work contemplated by any new Competitive Solicitation. The City's Purchasing Agent shall also commence any available debarment from city work proceeding that may be available upon a finding of two or more violations by a Vendor of this section.

CITY OF KEY WEST
3126 Flagler Avenue
Key West, FL 33040

ADDENDUM NO. 1 – RFQ Environmental Engineering/ ITB 14-004

This addendum is issued as supplemental information to the bid package for clarification of certain matters of both a general and a technical nature. The referenced bid package is hereby addended in accordance with the following items:

RFI Questions Submitted:

1.) Does the bid require that respondents be a licensed PE?

Yes, you should include a Licensed PE on your team.

2.) Can a Prime submit as a sub to another firm? Also, can a sub-contractor submit with more than one firm?

Yes.

3.) Please confirm the attached (46 pages) is the complete PDF for the subject submittal. Page 1 of the PDF states that the document is 47 pages in length. It also states that the "Request for Qualifications" section is 10 pages in length. However, per the attached, the section is 8 pages. I just want to be sure there are no missing pages.

Yes there are 46 pages and there are only 8 pages in the RFQ section.

4.) Under the "Scope of Work" section on page 7 of the RFQ, services from a Resident Project Representative would be required. Would a RPR differ from the Engineer of Record in this instance?

Yes, the RPR is the on-site staff providing daily (or other agreed on frequency) oversight (e.g., inspection)

5.) May firms only submit for one discipline or would a sub-consultant be needed to satisfy all service requirements per submission?

Must submit for all, using a sub-consultant as necessary.

6.) Will there be any page number limitations for any part of the qualification package?

Unless otherwise so stated in the RFQ, no limit

7.) Is there an incumbent? If so, can you provide the company name?

There is not an "incumbent" relative to an Environmental-specific General Services RFQ.

8.) Just to clarify the RFQ instructions, please advise: Put COPY Response and CD-ROM in envelope, seal it, mark it COPY and place inside of Envelope with ORIGINAL Response and CD-ROM, then seal that envelope? One envelope inside of another, correct?

Correct.

9.) Signed certifications are required by prime and subs, or just prime?

Just prime

10.) Please confirm that the required forms (Anti-Kickback Affidavit, Public Entity Crimes Certification, Equal Benefits for Domestic Partners Affidavit, and Cone of Silence Affidavit) are to be completed by the prime consultant only.

Correct.

11.) Are insurance certificates required to be provided at the time qualifications packages are submitted?

Yes

12.) Is a "description of the contractor's employee benefits plan" (page 17 of the RFQ) required to be included with the executed Equal Benefits for Domestic Partners Affidavit?

No

13.) Please confirm that electronic signatures are acceptable as originals.

Electronic signatures are acceptable

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 1 by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Bruce Bosserman, President
Signature

Handex Consulting & Remediation - Southeast, LLC
Name of Business

APPENDIX B

RESUMES

The following key staff member's professional resumes, with applicable licenses and certifications, are provided in this Appendix alphabetically.

John Baeringer, P.G.
Bruce Bosserman, P.E.
Maureen Davis
Kaled Essraowi, CMA, CMR
Michael Giovannozi, P.E.
Timothy L. Harman, P.E.
Jeremy Hess
Mark Hinkle
Christian Holmstrom, P.E.
Christopher King
Kevin Koenig, P.G.
Joseph Lundquist, P.E.
Joseph Newton, CGC, PSSC
Robert Sevret, Jr.
George Tibedo, P.E.
Brian Vaughn
Scott Yelverton

JOHN C. BAERINGER, P.G.

INDUSTRIAL HYGIENE SERVICES/SENIOR GEOLOGIST, P.G.

HANDEX CONSULTING & REMEDIATION - SOUTHEAST, LLC

Years of Experience: 28

Experience Highlights:

- ✓ Senior Program Manager for several Petroleum Jobbers
- ✓ Expert in Environmental Regulations and Regulatory Liaison
- ✓ Experienced off-site access coordinator

Education:

Bachelor of Science, Geology, East Carolina University

Registrations and Certifications:

- ✓ Florida Licensed Professional Geologist (P.G. No. 1208)
- ✓ Florida Licensed Water Well Contractor (No. 11184)
- ✓ OSHA 40-Hour Hazardous Materials Health and Safety Certification and 8-Hour Refresher yearly
- ✓ Loss Prevention System Training Certification and 8-hour Refresher yearly
- ✓ Seaport Security Identification Card
- ✓ Transportation Worker Identification Credential (TWIC)

Mr. Baeringer, based out of our Fort Lauderdale office, is a licensed Professional Geologist and has over 28 years of transportation consulting experience including emergency response, petroleum and non-petroleum contamination assessments, underground storage tank removals, construction oversight, source removal, waste handling and disposal, and regulatory coordination. Mr. Baeringer has strong communication skills that have been particularly useful in obtaining off-site access and coordinating off-site work. He has proven organizational and project management skills, which have resulted in the timely completion of transportation projects. Mr. Baeringer is familiar with FDEP regulations and has vast experience with contamination assessment and property evaluation studies. Mr. Baeringer is also available for expert witness testimony for litigation cases.

Relevant Experience

Program Management – Mr. Baeringer has performed program management for Dion Oil Company, Twin Oil Company, Victory Petroleum, and Floval Oil Company. His duties encompassed many phases of petroleum impacted site portfolio management including regulatory liaison, regulation applicability, technical review, proposal preparation, project tracking, insurance claim coordination and communication, and off-site access.

Tenant Audits – Mr. Baeringer performed single facility environmental regulatory compliance audits for seven tenants of the Miami-Dade Aviation Department (MDAD). The audits were completed by HCR under the Miami-Dade County Equitable Distribution Program (EDP), Resolution R-631-01. The objective of these audits was to identify the compliance status of the subject facilities with respect to selected regulatory requirements set forth in applicable federal, state, and county environmental regulations, to recommend suggested corrective actions for any identified deficiencies, and to assign a priority score to each observed point of non-compliance in accordance with the potential risks and liabilities posed by the compliance deficiency.

Contamination Assessment – Mr. Baeringer was involved in the performance of a Limited Contamination Assessment Report (LCAR) for MDAD as a requirement to participate in the Petroleum Cleanup Participation Program (PCPP). The site was located on the eastern side of Concourse H at the Miami International Airport in the City of Miami, Miami-Dade County, Florida. Mr. Baeringer performed oversight of soil borings and obtained historical information required by DERM. In addition, Mr. Baeringer coordinated the badging of HCR employees and obtained airside access decals for a fleet of HCR trucks.

Expert Witness Testimony - Mr. Baeringer performed expert witness testimony on behalf of Dryclean-USA for a chlorinated solvent site located in a shopping center in Kendale Lakes, Florida. The testimony allowed for favorable settlement of a lawsuit with the shopping center developer, which resulted in significant cost savings.

Corridor Study / Property Evaluation – Mr. Baeringer performed numerous Phase I / Phase II assessments for Dion Oil Company for sites located in Miami-Dade and Monroe Counties. Site inspections and rapid assessment techniques (Geoprobe with grab samples) allowed Dion Oil to evaluate contamination issues prior to a real estate transaction deadline.

Underground Storage Tank Removal – Mr. Baeringer participated in the removal of underground storage tanks (USTs) at numerous facilities throughout Florida. Mr. Baeringer provided oversight of the UST excavations, vapor purging, removal, cutting, cleaning, and disposal of the USTs. Tank closure assessments were also performed to characterize the soil and groundwater quality conditions. All UST removal activities were expedited to reduce construction delays during road construction activities.

Source Removal - Mr. Baeringer led a team that excavated petroleum impacted soil next to State Road 9 (I-95) near Jupiter. The work included obtaining a General Use permit from FDOT, setting up a proper Maintenance of Traffic (MOT), and performing the Source Removal. By aggressively removing the impacted soil in advance of the arrival of the construction crews in this area FDOT was able to avoid construction delay claims.

Waste Disposal / Handling – Mr. Baeringer profiled a stockpile of soil generated during a tank removal at a gas station site along U.S. Highway 1 in Key West, Florida. Laboratory analysis of composite soil samples were below State soil cleanup target levels, allowing the property owner to dispose of the soil to a local concrete company, resulting in a cost savings of thousands of dollars.

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL GEOLOGISTS (850) 487-1395
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

BAERINGER, JOHN C
1350 NE 23RD PLACE
POMPANO BEACH FL 33064

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto **www.myfloridalicense.com**. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

PG1208 ISSUED: 06/08/2014

PROFESSIONAL GEOLOGIST
BAERINGER, JOHN C

IS LICENSED under the provisions of Ch.492 FS.
Expiration date : JUL 31, 2016 L1406080002134

DETACH HERE

RICK SCOTT, GOVERNOR KEN LAWSON, SECRETARY

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

LICENSE NUMBER
PG1208

The PROFESSIONAL GEOLOGIST
Named below IS LICENSED
Under the provisions of Chapter 492 FS.
Expiration date: JUL 31, 2016

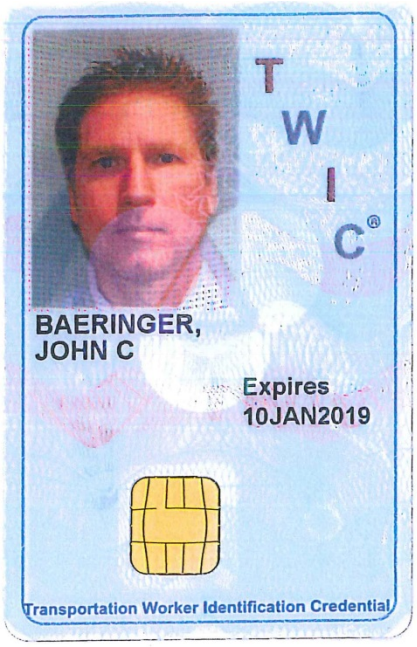
BAERINGER, JOHN C
1350 NE 23RD PLACE
POMPANO BEACH FL 33064

ISSUED: 06/08/2014 DISPLAY AS REQUIRED BY LAW SEQ # L1406080002134

STATE OF FLORIDA
WATER WELL CONTRACTOR LICENSE
Issued to
JOHN C. BAERINGER

License No. 11184 Expires 7/31/2015

DISTRICT CERTIFICATION OFFICER



Years of Experience: 36

Experience Highlights:

- ✓ Handex Consulting & Remediation, LLC; President
- ✓ Former Chief Financial Officer, previous employment
- ✓ Various oil exploration and production companies
- ✓ U.S. Department of Transportation, Former Project Manager
- ✓ Proven leader in establishing strong, ongoing relationships with clients at all organizational levels
- ✓ Proficient in all phases of contamination assessment and remediation services
- ✓ Reduction of contamination impact prior to construction

Education:

Bachelor of Science in Civil Engineering, University of Connecticut

Masters in Civil Engineering, University of South Florida

Registration and Certifications:

- ✓ Florida Professional Engineer License No. 47142
- ✓ South Carolina Professional Engineer License No. 17407
- ✓ Tennessee Professional Engineer License No. 103196
- ✓ OSHA 40-Hour Hazardous Materials Health and Safety Certification and 8-Hour Refresher yearly
- ✓ Loss Prevention System Training Certification and 8-hour Refresher yearly

Mr. Bosserman, MS is a licensed Professional Engineer (PE) in good standing with the Florida, South Carolina, and Tennessee Boards of Professional Engineers and is currently the President of HCR. He has over 36 years of professional experience in environmental, civil, and petroleum engineering and management. He is a hands-on manager with proven skills in growing businesses and leading teams of all sizes to success. Mr. Bosserman is skilled in establishing strong, ongoing relationships with clients at all organizational levels. He's a respected team leader, able to recruit top candidates for specific positions, train and mentor young professionals, and foster cohesiveness in achieving results. Mr. Bosserman also has significant expertise in the following areas: finance, accounting, health and safety, business development, human resources, and information technology. Having served as State Cleanup Contract Manager for a period four years with his previous employer and prior to that, three years with HCR, Mr. Bosserman brings vast experience with regulatory liaison to the contract.

With Mr. Bosserman's years of experience and effective set of management skills, combined with HCR's experienced staff, HCR is able to perform site work in a proficient and timely manner, while providing a safe working environment for HCR personnel and contractors. Mr. Bosserman's years of experience further aid in providing engineering support to difficult projects along with risk management approaches to specific site problems. While building a sense of trust with the HCR team, he is responsible for creating a climate where meeting our client's goals and expectations is a top priority in order to fast track remediation work in the future.

Relevant Experience

Environmental Investigation and Rehabilitation –

St. Marks Refinery, St. Marks/Wakulla, FL - Mr. Bosserman was the Project Director for various tasks associated with the St, Marks Refinery decommissioning. Tasks included preparation of a dioxin assessment plan, various site assessment activities, project planning and oversight, preparation of a Remedial Action Plan to address pipeline contamination, source removal, and emergency actions in preparation for landfall of Tropical Storm Bonnie.

Environmental Design Professional –

- Contract BDD45, Ft. Drum Service Plaza, MP 184, Ft. Drum, Okeechobee County. Mr. Bosserman was the Project Director for Florida Turnpike Enterprise Fort Drum Service Plaza remediation design project. Funding for the remediation activities was provided by FDEP. The remediation system consisted of two AS/SVE trailers with 272 AS points and 82 SVE points and thermal treatment of vapors by a 1,500 cfm electric catalytic oxidizer. The operation of the system removed contaminants in advance of the future construction activities on site.

Environmental Construction Management –

- Project Manager for Orange County Landfill, Orlando, Orange County, FL which included construction of landfill gas and leachate recovery system.

Environmental Construction –

- Contract BDD45, Canoe Creek Service Plaza, MP 229, St. Cloud, Osceola County. Mr. Bosserman was the Project Director for the Florida Turnpike Enterprise Canoe Creek Service Plaza. Funding for the remediation activities was provided by the FDEP. The remediation system consisted of an AS/SVE trailer with 70 AS points and 57 SVE points and thermal treatment of vapors by a 1,000 cubic feet per minute (cfm) electric catalytic oxidizer. As part of the Turnpike plaza renovations, the remediation system was decommissioned in 2009. During all phases of construction, HCR maintained open roadways to keep traffic moving on the plaza.
- Rafferty's Texaco, Islamorada, Monroe County. Mr. Bosserman was the Project Director for remediation system construction and operation and maintenance. The scope of work included tying into 48 air sparge wells and 26 SVE wells aligned along both rights of way of US Highway 1. The remedial equipment was comprised of two remediation system trailers with carbon absorption for off gas treatment. During all phases of construction, HCR maintained open roadways to keep traffic moving on US Highway 1 and the site.

Other Relevant Experience –

- Project Manager for construction of drilling platform and over 20 miles of access roads in Salar de Atacama and Salar de Pedernales, Chile. The salars are salt lakes composed of a salt surface crust overlying brine saturated sediments with random voids. Variable bearing capacity dictates complex road designs and strict construction specifications.
- Project Engineer for oil pipeline installation from Yemen desert oil field production facility through the central mountain range to a Red Sea floating export terminal. The pipeline was 270 miles long with pipe diameters of 24 and 36 inches, and a capacity of 200,000 barrels of oil per day with three pump stations and three pressure reducing stations.
- Experiment Manager for USDOT Facility for Accelerated Service Testing (FAST). Managed research directed at improving design and construction techniques for railroad ballast and subgrade.
- Technical monitor providing oversight of USDOT research contracts for mass transit tunneling. Specific topics included excavated materials handling techniques and tunnel liner design.

State of Florida

Board of Professional Engineers

Attests that

Bruce Newton Bosserman, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015

P.E. Lic. No: 47142

Audit No: 228201511454

MAUREEN DAVIS

INDUSTRIAL HYGIENE/HEALTH & SAFETY MANAGER

HANDEX CONSULTING & REMEDIATION - SOUTHEAST, LLC

Years of Experience: 20

Experience Highlights:

- ✓ Corporate HSE Manager
- ✓ Risk and Claims Manager
- ✓ OSHA Compliance Officer
- ✓ Primary Trainer for HAZWOPER, LPS, and additional required training
- ✓ Regulatory review & updates

Education:

Columbia Southern University
Environmental Management

Registration and Certifications:

- ✓ OSHA 501 Outreach Trainer For General Industry
- ✓ Hazardous Waste Operations and Emergency Response
- ✓ FDOT Advanced MOT
- ✓ 30 Hour Outreach for Construction Industry
- ✓ LPS Train the Trainer
- ✓ OSHA 8 Hour HAZWOPER Trainer
- ✓ Smith System Driving Trainer

Ms. Davis is an experienced Safety and Health Professional with more than 15 years experience in Occupational and Public Safety and Health in the environmental and construction industries, as well as law enforcement. She is an Authorized OSHA Trainer in the Outreach Program for General Industry. Her experience includes managing health and safety (H&S) programs, program development and implementation, risk reduction, loss control, OSHA training, and compliance with federal and state regulations.

Ms. Davis's background of experience includes developing and implementing H&S programs and policies including Traffic Safety, Defensive Driving, Back Injury Prevention, and Compliance Audits.

As the Health and Safety Manager, duties include management of the Health and Safety Program for all HCR Operating Divisions, including: Provide safety training and review for staff; Incident reporting to management, insurance, and clients; Investigate incidents for root causes and design and implement corrective action plans; Manage health and safety on large and complex projects; Develop health and safety policies and procedures; Write and review Health and Safety Plans; Review and implement changes in or new OSHA regulations; Supervision of local office safety professionals; Review of work scopes, bid proposals and audit of project sites for compliance with Handex Health and Safety Policies.

Relevant Experience

Former pharmaceutical R&D laboratory, Hollywood, FL
Provided H&S Oversight for a hazardous waste facility decontamination project in Broward County. Services included health and safety plan development, management of PPE including Level B and Level C protection, site inspections.

St Marks Refinery, St. Marks, FL
Provide health and safety management services in support of HCR's remediation project at the St. Marks refinery in St. Marks, FL. The former bulk petroleum storage facility was impacted with various light and heavy grade petroleum products, heavy metals, and dioxin. Assessment and remediation services were conducted in Level B PPE to prevent worker exposer to contaminants of concern above permissible exposure limits and reducing contamination impact to construction.

Health and Safety Training, Locations throughout the US
Present training courses to hundreds of employees and subcontractors on such topics as Hazwoper, confined space entry, hazard communication, health and safety plans, emergency action planning, incident reporting and record keeping, back injury prevention, and defensive driving, Loss Prevention System.

Fort Drum Service Plaza, Florida Turnpike
Provided H&S Oversight during system decomitioning. Services included development of health and safety plan, management of PPE, site inspections, OSHA regulatory compliance.

Fort Pierce Service Plaza, Florida Turnpike
Provided H&S Oversight during remediation activities. Services included development of health and safety plan, management of PPE including Level B and Level C, excavation safety, site inspections, OSHA regulatory compliance.

Canoe Creek Service Plaza
Provided H&S Oversight during remediation activities. Services included development of health and safety plan, management of PPE including Level B and Level C, excavation safety, site inspections, OSHA regulatory compliance.

Former Lake Highland Water Treatment Plant
Provided H&S Oversight during remediation activities. Services included development of health and safety plan, management of PPE including, site inspections, OSHA regulatory compliance.

Years of Experience: 12

Experience Highlights:

- ✓ FDOT District 4 Project Manager since 2008
- ✓ Proficient in all phases of contamination assessment and remediation services
- ✓ Reduces contamination impact to construction

Education:

Bachelor of Science in Electrical Engineering, Florida Atlantic University

Registrations and Certifications:

- ✓ Florida Licensed Mold Assessor (MRSA533)
- ✓ Florida Licensed Mold Remediator (MRSR562)
- ✓ Allan-Bradley Certified PLC System Programmer
- ✓ OSHA 40-Hour Hazardous Materials Health and Safety Certification and 8-Hour Refresher yearly
- ✓ Loss Prevention System Training Certification and 8-hour Refresher yearly
- ✓ Florida Department of Transportation Advanced Maintenance of Traffic
- ✓ Transportation Worker Identification Card (TWIC)
- ✓ CSX Roadway Worker Protection

Mr. Essraowi has approximately 12 years of engineering experience including more than 11 years in the environmental field. As a Project Engineer and a Project Manager for the HCR Fort Lauderdale office and as a Project Manager for the FDOT Contamination Assessment and Remediation 2006 and 2011 Contracts, he has managed multiple projects including Phase II/Level II Assessments, Contamination Assessment and Remediation Projects, Emergency Responses, Remediation Action Plans, Pilot Tests, Mold Assessment and Remediation, and Environmental Construction Projects. Mr. Essraowi is experienced in project management, client communications, cost estimating, emergency response, site assessments, source removals, engineering design, remediation system installations, construction oversight, underground storage tank removals, waste handling and disposal, maintenance of traffic (MOT), Mold Assessments and Inspections, report preparation, and personnel management. Mr. Essraowi's expertise in Engineering and problem solving has resulted in quick solutions and cost savings on numerous projects.

Relevant Experience

Environmental Investigation and Rehabilitation

Mr. Essraowi has managed and performed numerous phases of assessment projects for the Florida Department of Transportation (FDOT), Florida's Turnpike Enterprise (FTE), ExxonMobil Oil Corporation (EMOC), Dion Oil, Twin Oil, Florida Department of Environmental Protection (FDEP), and Miami-Dade County. Responsibilities included project management, subcontractor coordination, soil boring and temporary well installations, regulatory reviews, field documentation, client communications, report writing, project coordination, and proposal preparation. Key examples are listed below:

- Mr. Essraowi is currently involved in the I-595 Mobility Hub Facility for the Contamination Assessment (CAR) management during the facility construction. Developed work scope and management plan for the installation of proposed drainage structures within Arsenic impacted soil and groundwater. Actively participating in progress and coordination meeting with the FDOT PM, Construction Engineering and Inspection (CEI) Team, Prime Contractor and I-595 Express Team to manage construction work through contaminated areas and minimize contamination impacts through the drainage construction phase.

- Mr. Essraowi was involved in the Eller Drive Roadway Modification Project under for the CAR management during the roadway project. Mr. Essraowi was involved in the various Level II contamination assessments of the different Right-of-Way (ROW) areas within the roadway improvement project, including the assessment for the acquisition of Parcel 160. This parcel will serve as the extension that will unify current Eller Drive with SE 6th Ave which will become the new Eller Drive.

Underground and Aboveground Storage Systems Services - Mr. Essraowi assisted in the coordination of Underground Storage Tank Removals at ExxonMobil Divested Retail Fuel Stations and the Florida Turnpike properties in Palm Beach, Broward, and Miami-Dade counties, Florida. Responsibilities included subcontractor coordination, equipment coordination, MOT, contamination assessment, regulatory reviews, field documentation, client communications, report writing, and project management.

Environmental Construction Management - Mr. Essraowi has performed numerous types of construction oversight and remediation for the FDOT, FTE, EMOC, Motiva, FDEP, and Miami-Dade County. Responsibilities included system concept and design, system programming/testing/implementation, subcontractor coordination, equipment coordination, soil boring and well installations, equipment installation, MOT, regulatory reviews, field documentation, client communications, report writing, project management, and proposal preparation.

- Mr. Essraowi oversaw the construction and installation of a FDEP approved remediation system that included 50+ nested sparge well and soil vapor extraction wells with double trailers, carbon vessels and Catalytic Oxidizer in Pompano Beach, Florida.

- Mr. Essraowi managed a large source removal project for Miami-Dade Department of Environmental Resources Management (DERM) which was classified as an Imminent Threat (IT) Site due to its proximity to a Miami Dade Public Elementary School. Mr. Essraowi's efficient management and coordination combined with our experienced southeast construction group, enabled HCR to perform the source removal in a systematic and smooth approach which eliminated the direct exposure threat and in turn declassified the site from the IT list.

- Mr. Essraowi has constructed, managed, operated, and maintained numerous remediation systems throughout south Florida, including Miami-Dade County. These remediation systems were trailer mounted, constructed in mobile buildings, and constructed on permanent fenced areas. These systems ranged in sizes from small (4 air sparge and 2 vapor extraction systems) to large system (50+ air sparge and 25+ vapor extraction systems). Additionally Mr. Essraowi assisted other engineers with remediation system design due to his background in system controls and PLC design.

Other Relevant Experience

Mr. Essraowi has supervised and managed Asbestos Containing Materials and Lead Based Paint (ACB/LBP) abatement activities at various FDOT D4/D6 facilities and Bridges. Some of these facilities and bridges included various Train Station Facilities and Bridges within Palm Beach, Broward, and Miami-Dade County. Responsibilities included project management, subcontractor coordination, soil boring and temporary well installations, regulatory reviews, field documentation, client communications, report writing, project coordination, and proposal preparation.

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AC# 6169952

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
MOLD-RELATED SERVICES LICENSING PROGRAM

SEQ# L12062100908

DATE	BATCH NUMBER	LICENSE NBR
06/21/2012	110439952	MRSA533

The MOLD ASSESSOR
Named below IS CERTIFIED
Under the provisions of Chapter 468 FS.
Expiration date: JUL 31, 2014

ESSRAOWI ARIAS, KALED
5520 NW 61ST STREET UNIT 208
COCONUT CREEK FL 33073

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

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AC# 6169966

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
MOLD-RELATED SERVICES LICENSING PROGRAM

SEQ# L12062100922

DATE	BATCH NUMBER	LICENSE NBR
06/21/2012	110439949	MRSR562

The MOLD REMEDIATOR
Named below IS CERTIFIED
Under the provisions of Chapter 468 FS.
Expiration date: JUL 31, 2014

ESSRAOWI ARIAS, KALED
5520 NW 61ST STREET UNIT 208
COCONUT CREEK FL 33073

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

KEY PERSONNEL

Michael A Giovannozzi, PE

Senior Coastal Engineer

Education:

Master of Engineering
Civil (Coastal) Engineering
University of Delaware

Bachelor of Engineering
Civil Engineering
University of Delaware

Registrations/Certifications:

Professional Engineer: FL, AL, TX, GA, SC, MD, NJ

Years' Experience:

14

Professional Affiliations:

American Society of Civil Engineers

PIANC

Association of Coastal Engineers

Mr. Giovannozzi is a senior coastal engineer with more than 14 years of experience in coastal and waterfront development projects including project management, marina planning and design, environmental assessments, beach nourishments, and coastal engineering design. His expertise includes wave and hydrodynamic studies, beach nourishments, physical and numerical modeling, feasibility studies, coastal and marine structures, and innovative shore protection structures. His field experience includes data collection, coastal damage assessments, and construction inspections/oversight. He is highly capable in an array of numerical modeling techniques and is well-versed in the latest coastal design manuals such as CEM, SPM, and CIRIA Rock Manual. He has also managed multi-discipline teams in the planning and design of high-profile international waterfront development projects.

Guyana Sea Defence, Ministry of Public Works, Georgetown, Guyana. Coastal Engineer responsible for the rehabilitation/replacement of degraded coastal defense sea walls along the Atlantic Coast and riverine shorelines in Guyana. Performed wave and hydraulic stability calculations, wave runup and overtopping, scour assessment and the detailed designs sheet pile bulkheads and armor stone revetments.

Mangrove Restoration Program, Ministry of Agriculture, Geogetown, Guyana. Coastal Engineer responsible for the design of low-cost, innovative coastal structures to protect mangrove reforestation projects along the Atlantic Coast of Guyana.

Shoalwater Flood Damage Reduction Project, Tokeland, WA. Coastal Engineer responsible for the design and construction of a beach nourishment and sand dune placement for the protection of a sensitive marine habitat and flood damage reduction to upland infrastructure. Performed wave and hydraulic modeling, evaluated shoreline erosion, and designed the construction sequencing and temporary berm design for dewatering of hydraulically dredge sand material for the construction of a beach fill and dune creation.

Wind Wave and Hydrodynamic Study at Canal Dock Park, New Haven, CT. Coastal Engineer responsible for a pier, boathouse, and marina facility at Long Wharf in New Haven's waterfront. Performed detailed wind-wave and hydrodynamic numerical modeling and provided environmental loadings (storm surge, wave heights, and currents) to support the design of a pile-supported structure and small boat marina facility for the City of New Haven and Connecticut Department of Transportation.

Coastal Structure Inspections, PacNW Coast and Puget Sound, WA. Led team of engineers for annual inspections of coastal and maritime structures for the Seattle District Corps of Engineers including rubble mound revetments, breakwaters, and jetties; concrete and timber bulkheads, training walls, and piers; and floating concrete wave attenuators. Provided assessment of current conditions, prioritized repairs, and provided recommended repair plans and cost estimates.

State of Florida

Board of Professional Engineers

Attests that

Michael A. Giovannozzi, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015

Audit No: 228201506710

P.E. Lic. No: 62563

TIMOTHY L. HARMAN, P.E., M. ASCE

REAL ESTATE DEVELOPMENT

HANDEX CONSULTING & REMEDIATION - SOUTHEAST, LLC

Years of Experience: 20+

Experience Highlights:

- ✓ Eller Drive - facilitated engineering design changes during construction to avoid contamination and minimize impacts - Two Prudential Davis Productivity Awards for FDOT PL&EM - over $1.2M in cost savings.
- ✓ Riviera Beach - innovative use of existing technology to avoid exacerbation of a dissolved contamination plume. Fast track solution saved time and money and resulted in accelerating the construction schedule by two months. Prudential Davis Productivity Award for FDOT – PL&EM.

Education:

BSE, Environmental Engineering, University of Florida

Registration and Certifications:

- ✓ Registered Professional Engineer (Environmental), FL Lic. No. 51960
- ✓ Registered Professional Engineer, NC License No. 030591
- ✓ FDEP Qualified Stormwater Mngmnt Inspector, FL Lic. No. 20687
- ✓ Transportation Worker Identification Credential (TWIC®), Transportation Security Agency
- ✓ Port Everglades Seaport Security Identification Card, Broward County
- ✓ 40-Hour OSHA Health and Safety Cert.
- ✓ 8-Hour OSHA Health & Safety Refresher Training (annually)
- ✓ 8-Hour OSHA Site Supervisor Training
- ✓ Loss Prevention System Training Certification, 3-day Train-the-Trainer
- ✓ Visual MODFLOW GW Flow/Fate and Transport Modeling, NGWA
- ✓ Air Pollution Dispersion Modeling
- ✓ ADaPT Supplementary Training, LDC FL, 2007
- ✓ Low Impact Development Practices for Florida: Stormwater, UF IFAS, 2007

Mr. Harman is a General Manager/Contract Manager with over 20 years' experience in petroleum and industrial environmental program/client/contract management. Mr. Harman currently serves as the Contract Manager for the FDOT, District 4 Districtwide Contamination Assessment & Remediation Services contracts (BDS12 and BDH24). Services include emergency response; contamination assessment; property evaluations; construction project contamination impact analysis and solution development; construction oversight, worker exposure monitoring and management, health & safety, source removal, hazardous materials management; remediation system design, construction, operation & management and performance evaluation; regulatory permitting and liaison; ACM and LBP assessment and abatement; mold assessment and remediation; waste disposal and handling, maintenance of traffic, and in-house staffing/personnel management.

Mr. Harman has previously assisted with the management of the Turnpike-Wide Hazardous Materials Response Services Contract with the Florida Department of Transportation (FDOT), Florida's Turnpike Enterprise (FTE) including QA/QC, coordination of 24-hour emergency response activities, hydrocarbon and hazardous waste contamination assessments, source removals, remediation system design, and installation, asbestos abatements and surveys, operation & maintenance, construction management services, and dewatering.

Mr. Harman has extensive and comprehensive experience with the transportation sector, petroleum terminal and retail station facilities, drycleaner facilities, and large industrial and agricultural facility assessments, remediation and closure, Phase I and II environmental audits, soil, groundwater, and air evaluations, underground storage tank investigations, and environmental and human health risk assessments. This experience has included managing a retail petroleum assessment and remediation group, and a hazardous waste design and engineering group.

Mr. Harman has conducted and managed a wide variety of environmental engineering projects, including site assessments and investigations, hazardous waste management and disposal, air permitting, environmental permit acquisition, post closure permit monitoring, and remediation involving conventional and innovative strategies. He has also served as the engineer of record for Superfund and large industrial site cleanup projects, developed engineering designs, designed groundwater and soil remediation systems, prepared storm water pollution prevention plans/erosion control plans (including the requisite inspections and reporting), implemented remedial action plans, directed underground tank removals and installations, conducted contamination assessments, performed environmental assessments, and performed risk assessment evaluations.

Environmental Investigation and Rehabilitation

- Mr. Harman developed, implemented and managed an environmental compliance programs for numerous clients in south Florida and throughout the US. He provided environmental compliance services to national industrial clients, reporting directly to senior client management. He managed and provided stormwater pollution prevention plans and spill prevention, control, and countermeasure plans, asbestos surveys and abatement, Phase I and Phase II environmental assessments, environmental and storage tank permitting, tank closures, site closure, site remediation, dye tracer studies and subsurface camera investigations, and site compliance investigations.

Environmental Design Professional/ Construction and Management

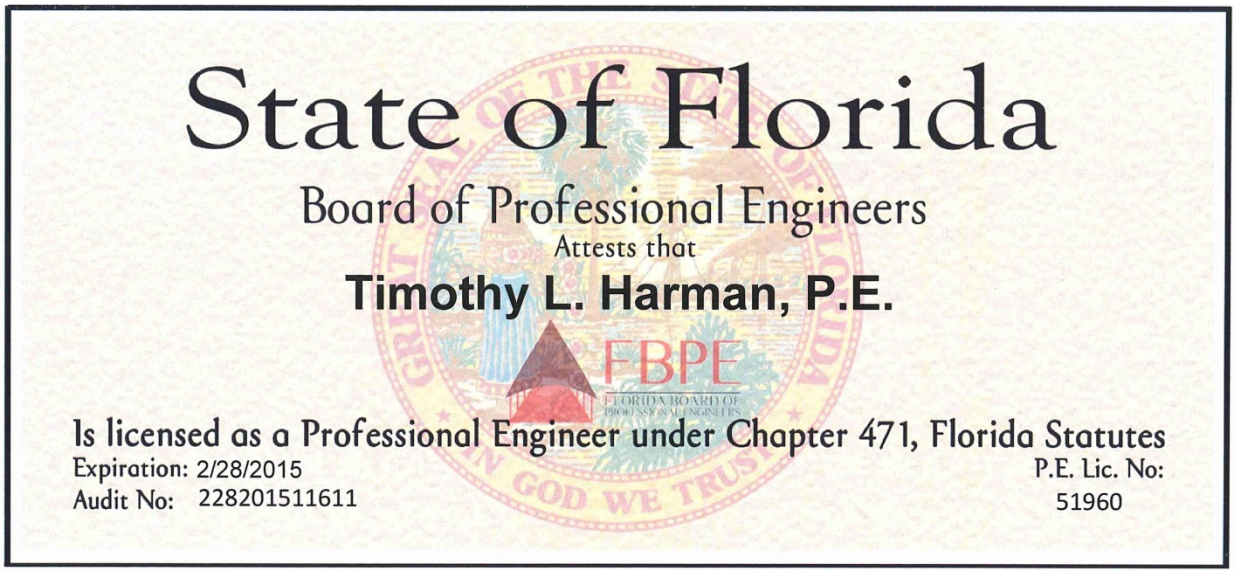
- Managed investigation and on-going remediation at more than 200+ Exxon Company USA, EMRO Marketing Company, and BP Oil Company underground storage tank sites throughout Palm Beach, Broward, and Miami-Dade counties. Developed and implemented limited and full-scope contamination assessment, development of remedial action plans, oversight/management of construction activities, and served as Engineer of Record for all sites. Also addressed general environmental compliance issues.

Other Relevant Experience

- Initiated a risk-based corrective action evaluation program for 46 former petroleum sites in Florida, in accordance with a major oil company's internal risk-based corrective action policy. Mr. Harman implemented RBCA evaluations using the client's proprietary guidance manual and standard practices and procedures for site characterization, exposure assessments, and risk assessment evaluations, which required a thorough knowledge of the ASTM tiered risk assessment approach, EPA Risk Assessment Guidance for Superfund Sites, and the FDEP Risk-Based Corrective Action Program.

- Designed, implemented, and maintained a sentinel groundwater monitoring system around the perimeter of two closed Class I landfills to monitor for unlicensed dewatering, assess the impacts of permitted dewatering adjacent to the landfill, provide a record of static water table elevations during the wet and dry seasons, and assist with post-closure permit monitoring requirements.

- Provided litigation support for redevelopment of a former unregulated landfill site. Evaluations included a review of all assessment, permitting issues, permitting processes, regulatory meetings and reviews, and remedies. Remedies included installation of a vapor control system around the perimeter of the installed building and the redesign of onsite stormwater systems to include lining of the existing stormwater detention areas and offsite conveyance of stormwater.



State of Florida

Board of Professional Engineers

Attests that

Timothy L. Harman, P.E.

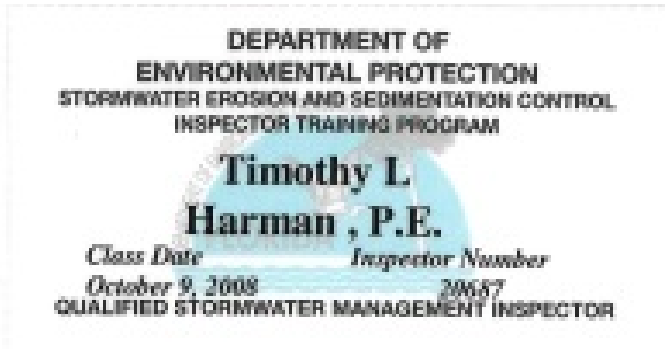
FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015

Audit No: 228201511611

P.E. Lic. No: 51960



DEPARTMENT OF ENVIRONMENTAL PROTECTION

STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM

Timothy L Harman , P.E.

Class Date *October 9, 2008*

Inspector Number *20687*

QUALIFIED STORMWATER MANAGEMENT INSPECTOR

JEREMY HESS

CONTAMINATED SITE INVESTIGATION/REMEDIATION

HANDEX CONSULTING & REMEDIATION - SOUTHEAST, LLC

Years of Experience: 6.5

Experience Highlights:

- ✓ Fast track remediation
- ✓ Petroleum and hazardous waste remediation expert
- ✓ Utilizes innovative and cost effective approaches

Education:

BS, Environmental Science, University of Florida, Gainesville, FL

BS, Civil Engineering, University of South Florida, Tampa, FL

Registrations and Certifications:

- ✓ 40-Hour OSHA Health and Safety Training
- ✓ 8-Hour OSHA Health & Safety Refresher Training (annually)
- ✓ LPS Training 8-Hour
- ✓ LPS Training Annual Refresher
- ✓ Transportation Worker Identification Credential

Mr. Hess has 6.5 years of environmental consulting experience involving environmental assessment and remediation at petroleum cleanup sites throughout the State of Florida. He has managed and otherwise been involved in a wide variety of site assessments, source removals, soil excavations, pilot tests, and implementation of Air Sparging (AS), Soil Vapor Extraction (SVE), Multi-phase Extraction (MPX), and other innovative remediation approaches such as biological/chemical injection technologies. He is experienced in the preparation of remedial action construction (RAC) proposals, right-of-way (ROW) access and NPDES discharge permitting, waste handling and disposal, and hydrologic monitoring for determination of hydraulic gradient and contaminant transport. Mr. Hess has also aided in the preparation of remediation action (RA) system designs and emergency response reporting.

Relevant Experience

Environmental Investigation and Rehabilitation

- Mr. Hess has extensive experience with environmental assessments across the State of Florida in accordance with Chapter 62-780, FAC. Clients include, but are not limited to, the Florida Department of Transportation (FDOT), Florida's Turnpike Enterprise (FTE), Port Everglades Environmental Corporation (PEECO), ExxonMobil Oil Corporation (EMOC), Quality Petroleum Corporation (Quality), and the Florida Department of Environmental Protection (FDEP). Responsibilities include cost proposals, permitting, installation of soil borings and monitoring wells for soil and dissolved-phase impact assessment, soil and groundwater sampling, subcontractor coordination, regulatory and client correspondence, field documentation, elevation surveying, and report writing.

Environmental Design Professional

- Mr. Hess has relevant experience with remediation system design, startup, and operation & maintenance (O&M). Has assisted with the preparation and design of Remedial Action Plans (RAPs) and Remedial Action Plan Modifications (RAPMs) for AS/SVE systems, chemical and oxygen releasing compound (ORC) injections, and pilot testing. Project involvement of active O&M sites includes over thirty remediation systems including project management of large scale O&M systems at the Okahumpka (MP 299) and Canoe Creek (MP 229) Service Plazas along Florida's Turnpike. Mr. Hess has also assisted in the design of contamination assessments including soil boring and monitoring well installation locations for the Port Everglades Authority.

Environmental Construction Management

- Mr. Hess has managed and supervised the installation of AS/SVE systems as well as modifications to existing AS/SVE systems. Mr. Hess has provided engineering assistance in the preparation of construction drawings and bid package solicitations. Has also prepared remedial system installation and system modification cost proposals through coordination with the in-house construction division. Budgeted construction projects to ensure timeliness of completion and maximization of profitability.

Environmental Construction

- Mr. Hess has provided oversight of environmental construction activities including underground and above ground remediation system installation, soil excavations, well installations, in-situ chemical oxidation (ISCO) injections, and system decommissioning activities. Mr. Hess maintained coordination of in-house personnel, subcontracted personnel, clients, and regulatory agencies during construction activities. Was also responsible for documenting field activities, preparing and submitting reports summarizing construction activities, and assisting in the revision of as-built drawings.

Other Relevant Experience

- Has aided in the completion of emergency response reports from fact-tracked remediation efforts involving vehicular accidents along Florida's Turnpike.
- Completed multiple feasibility studies for the installation of geothermal HVAC systems by conducting research into regional lithology, groundwater flow, and stratigraphy.
- Assisted in performing Phase I and Phase II site assessments and the completion of reporting to clients.
- Has permitting experience including NPDES, well construction and abandonment, and ROW access along FDOT, county, and local roadways.

Years of Experience: 28

Experience Highlights:

- ✓ Experienced Construction Manager with emphasis on reducing contamination impact to construction
- ✓ Manages worker exposure to contaminants
- ✓ Efficient emergency responder allowing FDOT to re-open roads and keep traffic moving
- ✓ Strong Health & Safety background provides a safe work area for HCR, roadway contractors, and the public

Education:

Three years course work, Michigan State University

Registrations and Certifications:

- ✓ Stormwater Management Inspector
- ✓ OSHA 10-Hour Occupational Safety and Health Training - Construction
- ✓ FDOT Advanced Maintenance of Traffic (MOT)
- ✓ OSHA 40-Hour Hazardous Materials Health and Safety Certification and 8-Hour Refresher
- ✓ Loss Prevention System Training Certification and 8-hour Refresher
- ✓ CSX Roadway Worker Certification
- ✓ Zurich HAZCOM Communication Certification

Mr. Hinkle brings more than 28 years' experience in Petroleum Construction, Project Management, Construction Inspections, Maintenance Management, Occupational Safety and Health, Estimating, Employee Development & Training, and Quality Control & Assurance. Mr. Hinkle's background of experience includes Construction of Service Stations for Major Oil Companies, UST Closures and Removal, Site Assessments, Maintenance Manager for Major Oil Companies, Installations, Construction Oversight, Remediation System Installation, and Emergency Response. He is Certified by National Safety Council for both CPR and First Aid training, Certified Loss Prevention System (LPS) Trained, and is MOT certified for FDOT. His experience includes assessment, planning, and implementation of Design-build construction projects. He has managed health and safety (H&S) programs, and also is skilled in plan review, estimating, scheduling, bidding, development and implementation of small and large projects. He is based in our Fort Lauderdale office.

Relevant Experience

Emergency Response – Mr. Hinkle assisted with and participated in numerous Emergency Response (ER) incidents throughout south Florida major highways (I-95 and Florida Turnpike). A Key example is listed below:

- Florida Turnpike Mainline, Mile Post 108 NB, Palm Beach Gardens, FL (FTE Contract BDD-45) - October 18, 2013, ER call was received in regards to a vehicular accident with motor oil and other vehicular fluids discharged to an area 41 feet long by 8 feet wide on the northbound shoulder of the mainline Turnpike. Mr. Hinkle was responsible for field project management, source removal oversight/coordination, waste handling/disposal, soil disposal manifesting and maintenance of traffic.

Construction Oversight and Remediation - Mr. Hinkle has performed numerous types of construction oversight for the FDOT, FTE, and FDEP. Responsibilities included system programming/testing/implementation, subcontractor coordination, equipment coordination, equipment installation, MOT, field documentation, client communications, project management, and proposal preparation.

- Eller Drive / Overpass road work for FDOT District 4 Broward Operations. Services included dewatering and providing assistance to the roadway contractor, site inspections, safety

inspections, meetings with the client and contractors, coordinating subcontractors, and reviewing site plans and documents. Recommended changes to the project plan have resulted in an approximate $300,000 reduction in total project cost.

- Air sparge system operation for Twin Oil in Lauderdale Lakes, FL. Created drawings and ensure the proper permits were obtained, maintained contact with the client, coordinated subcontractors, conducted site safety audits, including inspection of equipment and site work, and operation of Air Sparge equipment. Ensured safe removal and disposal of three 12,000 gallon USTs.

- Project Manager/Developmental Manager for ExxonMobil including oversight of new construction and remodeling projects for all construction performed in the state of Florida. Over an eighteen month period, provided management for over ten million dollars of new construction. Duties included creating scope of work documents, processing bids, negotiating contracts, ordering and dispersing materials, budget management, on-site tank installation certification, conducting weekly on-site job and safety inspections, creating and processing change orders, and processing of project closing documents.

- Project Manager for Circle K projects including new construction and remodeling programs. Within a two year period, provided project management for new construction totaling more than seven million dollars, and remodeling projects worth more than one million dollars. Responsibilities included oversight of new station construction and remodeling of existing stations, including creation of scope of work documents, bids processing, contract negotiations, material acquisition and disbursement, budgetary creation and management, on-site inspections during every phase of the project, weekly safety inspections, change order creation, and processing of project closure documentation.

Construction Estimating – Mr. Hinkle performed estimating for various State of Florida "Petroleum Cleanup Preapproved Program" projects located throughout Florida. Projects included several ExxonMobil sites, an Amoco site, Days Inn, Twin Oil, Orlando Utilities Commission, Ideal Foods, Fina, and Southland Corporation (7-11). The projects ranged from small A/G tank replacement and remodeling projects to large scale installation projects covering price ranges up to two million dollars. Services provided included take off of plans, received quotes from vendors, preparation of RAC (Remedial Action Construction) proposals, and submittal of proposals.

Asbestos/Lead Based Paint Survey/Abatement – Mr. Hinkle performed oversight of asbestos and lead based paint survey and abatement projects for the FDOT and FTE. Select projects included:

- Asbestos/Lead-based Paint Abatement CSX/Amtrak Train Station, Fort Lauderdale, Broward County, Florida (FM#429946-1, Contract BDS12) – Performed oversight of asbestos containing materials and lead-based paint abatement and disposal in preparation for the train station building and platform canopy renovation project. Scheduled abatement subcontractors and coordinated field activities in conjunction with the Prime Contractor. Performed oversight of the air monitoring and follow-up wipe/air clearance testing. Prepared the summary of field activities report.

QUALIFIED
STORMWATER MANAGEMENT
INSPECTOR

The undersigned hereby acknowledges that

Mark Hinkle

has successfully met all requirements necessary to be fully qualified through the Florida Department of Environmental Protection Stormwater Erosion and Sedimentation Control Inspector Training Program

March 15, 2013

Hal Lunsford

Inspector Number 28457

Lee Marchman, P.E.

ATSSA AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

SAFER ROADS SAVE LIVES

This is to affirm that ID #37

Mark Hinkle

has satisfactorily completed the

Florida Advanced Work Zone Traffic Control Course

Date Complete: 08/09/2011 Status: PASS

Location: West Palm Beach Instructor: Mr. Edward Kant

Date Refresher Course Required: 08/09/2015

Years of Experience: 16

Experience Highlights:

- ✓ Professional Engineer since 2003
- ✓ Proficient in all phases of contamination assessment, remediation design, installation, O&M services, and closure strategies
- ✓ ROW, NPDES, UIC, and landfill permitting experience
- ✓ Fast-track remediation
- ✓ Innovative, cost-effective design approaches

Education:

Bachelor of Science in Environmental Engineering, University of Florida

Registrations and Certifications:

- ✓ Engineer of Record for the HCR Florida offices
- ✓ NCEES Record Certificate No. 53643
- ✓ Florida Professional Engineer License No. 60115
- ✓ Maryland Professional Engineer License No. 45024
- ✓ Georgia Professional Engineer License No. 38655
- ✓ OSHA 40-Hour Hazardous Materials Health and Safety Certification and 8-Hour Refresher yearly
- ✓ Loss Prevention System Training Certification and 8-hour Refresher yearly
- ✓ Smith Driver Training Certification

Mr. Holmström is a licensed Professional Engineer (PE) in good standing with the Florida, Georgia, and Maryland Boards of Professional Engineers and is currently the Engineer of Record for the HCR offices in Florida. He has over 16 years (11 years as a registered Professional Engineer in the State of Florida) of consulting experience in performing environmental and remediation engineering at petroleum cleanup sites throughout the State of Florida.

He has excellent project management skills which has resulted in the completion and management a of wide variety of Phase I's, petroleum site assessments, pilot testing and implementation of AS, SVE, MPE, and biological/chemical injections technologies, remediation action system designs, remedial action construction proposals, contaminated soil removal, waste handling and disposal, construction and oversight, permitting along City, County, and FDOT roads, UIC permitting, NPDES discharge permitting, regulatory coordination, operation and maintenance of remediation systems, site closures, and emergency response. Mr. Holmström possesses strong communication skills that have been particularly useful in dealing with regulatory agencies and clients with right-of-way and off-site access issues. In addition, he has successfully managed performance based cleanup, cost-share agreements, and contractual arrangements with private clients in Florida. Mr. Holmström's expertise in Environmental Design Engineering and innovative problem solving design has resulted in cost-effective, fast-track rehabilitation solutions on numerous projects with a focus on the safe, continuous movement of traffic and pedestrians.

Relevant Experience

Environmental Investigation and Rehabilitation

- Mr. Holmström has experience in all phases of Environmental Investigations for the Florida Department of Environmental Protection (FDEP) and the Florida Turnpike Enterprises (FTE) in accordance with Chapter 62-780, FAC. Responsibilities included project management, proposal preparation, subcontractor coordination, soil boring and well installations for vertical and horizontal soil and dissolved-phase investigation and delineation, elevation surveying, regulatory reviews, field documentation, client communications, laboratory data analysis, report writing, project coordination, and development of Site Rehabilitation Closure strategies, including No Further Action (NFA) without Controls and NFA with Controls (institutional and engineering).

Environmental Design Professional

- Mr. Holmström has performed numerous types of remediation system designs. Responsibilities included site-specific pilot testing, data analysis, system concept and design, cost analyses, constructability reviews with in-house construction department, regulatory reviews, client communications, and Remedial Action Plan preparation. The remediation systems have varied between skid, trailer, and building mounted type remediation systems specifically suited to the property. Remediation system technologies have included ISCO, Bio injection, AS, SVE, and MPE. These systems ranged in sizes from small (4 air sparge and 2 vapor extraction systems) to large system (100+ air sparge and 75+ vapor extraction systems).

Environmental Construction Management

- Mr. Holmström has supervised the installation of many remediation technologies, including air sparge/soil vapor extraction, pump-and-treat (of impacted groundwater and free products), in-situ chemical/biological injections, oxygen injection, and soil excavation via conventional means. Mr. Holmström has prepared detailed Bid Specifications and Construction Drawings and conducted constructability reviews with the in-house construction department. Performed installation cost proposals, capital equipment procurement, MOT planning, project management, and client communications for pre-construction input and guidance. Mr. Holmström has aided in providing safe work areas for HCR staff and contractors on site while keeping roadways open and traffic moving on site during construction activities. Site construction activities are coordinated with onsite contractors to minimize delays and maintain work schedules. Utilizing Mr. Holmström's effective management skills, combined with HCR's experienced southeast construction group, HCR is able to perform construction activities in a proficient and smooth approach, as approved by the client, while remaining compliant with all applicable rules and regulations that govern the construction activities.

Environmental Construction

- Mr. Holmström provided Professional Engineer oversight during the underground and aboveground installation of many remediation technologies as listed in the "Environmental Construction Management" section. During construction Mr. Holmström was also responsible for subcontractor coordination, coordination with the in-house construction manager and onsite foreman, setup and maintaining MOT, remediation well installations, field construction documentation including redlining construction drawings for as-built preparation, client communications for progress and change orders, and report writing. During construction activities, Mr. Holmström verifies that the work being performed, as approved by the client, remains compliant with all applicable rules and regulations that govern the construction.

Other Relevant Experience

- Mr. Holmström has managed and completed numerous permits associated with FDOT, County, and City ROWs, NPDES discharges for source removals and system operations, UICs, and landfill permit modifications and renewals. Responsibilities included permit preparations, management, regulatory reviews, documentations, client communications, and reporting.

State of Florida

Board of Professional Engineers

Attests that

Christian Jan Holmstrom, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015 P.E. Lic. No: 60115

Audit No: 228201511870

NCEES
advancing licensure for engineers and surveyors

Record Certificate

presented to

Christian J. Holmstrom, P.E.

in recognition of the verification of your engineering record by NCEES and of your engineering license by a jurisdiction based on meeting the qualifications of that board.

In witness whereof, this certificate NO. 53643
has been issued this
19th day of June 2013

President

Executive Director

CHRISTOPHER P. KING

CONTRACT MANAGER/PROJECT MANAGER

HANDEX CONSULTING & REMEDIATION - SOUTHEAST, LLC

Years of Experience: 18

Experience Highlights:

- ✓ Program/Project Management of major oil companies
- ✓ Nationwide Program Manager of major car rental company
- ✓ Operations Manager for SFWMD Everglades Restoration Program
- ✓ Proficient in all phases of contamination assessment and source removal

Education:

Bachelor of Science in Environmental Science, University of West Florida

Registration and Certifications:

- ✓ OSHA 40-Hour Hazardous Materials Health and Safety Certification and 8-Hour Refresher yearly
- ✓ Loss Prevention System Training Certification
- ✓ API Worksafe Safety Training
- ✓ Smith Driver Safety Training
- ✓ Fatigue Management Training

Mr. King is a senior project manager with over 18 years of environmental consulting experience and currently serves as General Manager for the HCR office in Fort Lauderdale. He has extensive experience in Program/Project Management and maintaining client relationships. Mr. King is experienced in scope and budget development, Quality Assurance & Quality Control (QA/QC), report generation/review and schedule/budget management for numerous petroleum and non-petroleum sites throughout the State of Florida. He has completed/managed large-scale Phase I/II environmental assessments, petroleum and non-petroleum contamination assessments, Underground Storage Tank (UST) and source removal, waste handling and disposal, construction oversight and coordination, pilot testing, operation and maintenance (O&M) of remediation systems, health and safety management, regulatory permitting and coordination, and emergency response. Mr. King is very knowledgeable with FDEP regulations and has evaluated conditional closure/risk based options through alternative cleanup target levels for retail gasoline stations, dry cleaning sites, industrial manufacturing facilities, and cattle dipping vats utilizing deed restrictions, current site conditions, and future site usage. Mr. King has also served as a program manager for major oil companies, rental car companies as well as other private sector clients throughout Florida and the U.S. Mr. King's expertise in consulting and client/regulatory relations has resulted in fast track remediation prior to construction/redevelopment activities, amounting to substantial cost savings on numerous projects.

Relevant Experience

Program Management – Mr. King has served as Program Manager for two major oil companies within the State of Florida and a car rental company throughout the U.S. Responsibilities included project management, maintaining client relationships, scope and budget development, QA/QC activities, administering a health and safety training program, project scheduling, budget management, and financial management leadership initiatives.

- BP Remediation Management Atlantic Richfield Company (BP) and Shell Oil Company (Shell) – Managed two specific cost centers structured to serve BP and Shell in an alliance relationship for more than 275 sites and remotely managed technical and staff members within six different offices throughout the State of Florida. Maintained a comprehensive behavior-based Health, Safety, Security, and Environmental (HSSE) management training program for all employees and associated subcontractors. Responsible for overall financial management/milestones, leadership initiatives, and managing potential marketing opportunities. Assisted BP and/or

Shell's marketing and maintenance groups in Florida with site acquisitions, facility maintenance oversight, raze and rebuild assessments, environmental services support, and facility abandonment and divestment.

- Dollar Rent A Car Company (Dollar) – Served as the National Program Manager responsible for turnkey environmental consulting services for Dollar's U.S. portfolio. Coordinated all environmental due diligence, soil/groundwater contamination assessment, UST/AST removal/replacement/upgrades, source removal and remedial corrective actions, indoor air quality, mold and asbestos investigations/abatement/operation and maintenance plan development, permitting, and regulatory correspondence throughout the U.S. Assisted Dollar's maintenance groups with site acquisitions, facility maintenance oversight, raze assessments and environmental services support, and facility abandonment and divestment.

Contamination Assessment - Mr. King has managed and performed numerous phases of assessment projects for BP, Shell, Dollar, South Florida Water Management District (SFWMD), and the Florida Department of Environmental Protection (FDEP). Responsibilities included proposal preparation, project management, project/subcontractor coordination, soil boring and monitor well installations, regulatory reviews, field documentation, client communications, and report preparation. A key example is included below.

- SFWMD Acquisition of Agricultural Parcel of Land, Palm Beach County, Florida. Served as Operations Field Manager of an environmental site assessment and subsequent contamination assessment (CA) of >54,000 agricultural acres in western Palm Beach County. As part of the investigation, a comprehensive work plan was developed and submitted to FDEP, US Fish & Wildlife Services (USFWS), and SFWMD. Components of the investigation included interviews with farm personnel, historical record review, soil and groundwater, sediment, and hydrologic dynamics evaluations and assessments. In conjunction with the CA, an ecological evaluation and risk assessment was conducted in which site specific "cleanup goals" were established and approved by the FDEP and USFWS. Significant areas of investigation included an airstrip and associated mix and load area, two large maintenance areas, multiple burn areas, numerous pump stations and canals, and an extensive evaluation of residual pesticide and metals concentrations in the cultivated fields.

Construction Oversight and Remediation - Mr. King has performed numerous types construction oversight and remedial activities for BP, Shell, Dollar, SFWMD, FDEP as well as other private clients in Florida. Responsibilities included assisting with system concept and design, proposal preparation, subcontractor coordination, equipment coordination, equipment installation, operation & maintenance (O&M), regulatory reviews, field documentation, client communications, report writing, and project management.

- Former L3 Communications Facility (Brownfield Site), Sarasota County, Florida. Served as field manager of on-going remediation activities of a 60-acre chlorinated solvent plume located within the 90-acre Brownfield property. The property utilized two typical "pump and treat" remediation systems with over 175 recovery points and associated sprayfield. Upon taking control of the site, an evaluation to determine additional remedial options that have enhanced cleanup activities at the site was conducted. Following the evaluation, the construction and installation of an additional AS/SVE remediation system within the suspected source area was installed. The system consisted of more than 60 recovery points each with the ability to be shut-off from remedial activities to enhance remediation. In addition, more than 130 groundwater

monitoring wells were installed throughout the site to monitor groundwater quality and effectiveness of remedial activities. Responsibilities included subcontractor management, weekly O&M of all remediation systems, semi-annual groundwater monitoring, regulatory correspondence between FDEP, Environmental Protection Agency, and Sarasota County, semi-annual RCRA inspections, and report generation.

- Characterization and Removal of 12 Historical Cattle Dipping Vats (CDV's), SFWMD Land Acquisitions; Osceola, Highlands, Polk, Okeechobee, Martin, and Palm Beach Counties, Florida. Served as Operations Field Manager for Environmental Site Characterization and subsequent removal of 12 CDV's located within SFWMD boundaries as part of the Kissimmee River Restoration Program, Save our Rivers Program, and Everglades Restoration Program. As part of the investigation, a comprehensive work plan was developed and submitted to FDEP and SFWMD for approval. Components of the investigation included interviews with farm personnel, historical records review, soil and groundwater, sediment, and hydrologic dynamics evaluations and assessments. Site assessment activities included site characterization, determining hydrogeologic characteristics by surveying, transmissivity tests, and evaluated risk-based corrective actions based upon detected levels of arsenic, DDT, and other chlorinated pesticides associated with historical CDV operations. Corrective actions included the excavation and removal of the CDV structure and removal/treatment of impacted soils and groundwater. Ecological evaluation, risk assessment and detailed institutional controls were also developed and initiated to gain regulatory closure for the appropriate governing agencies.

Underground Storage Tank (UST) and Source Removal, Waste Disposal, and Handling – Mr. King has coordinated and completed numerous types of source removal field oversight activities during tank UST upgrades at BP, Shell, and Dollar facilities, as well as other private clients throughout Florida and the southeast U.S. Responsibilities included subcontractor coordination, delineation of the impacted soils, completed site characterization, soil and groundwater closure assessment, and ensured that the impacted soils were removed from the site with no impact to the project time schedule. Coordinated waste profiling and waste manifest documentation for impacted soils with a licensed disposal company, and provided oversight of hydrocarbon impacted soil transportation for disposal. Completed UST closure assessment and prepared the necessary regulatory documentation for submission to the appropriate regulatory agency within the required timeframes.

Years of Experience: 17

Experience Highlights:

- ✓ Florida Turnpike Enterprise Project Manager
- ✓ Florida Turnpike Enterprise Emergency Response Manager
- ✓ Proficient in all phases of contamination assessment and remediation services
- ✓ Successful in minimizing environmental impacts to construction project deadlines

Education:

Bachelor of Science in Geology, Florida Atlantic University

Registration and Certifications:

- ✓ Licensed Professional Geologist – Florida # 2452
- ✓ Licensed Stormwater Management Inspector – Florida # 29229
- ✓ ATSSA Florida Advanced Work Zone Traffic Control
- ✓ OSHA 40-Hour Hazardous Materials Health and Safety Certification and 8-Hour Refresher yearly
- ✓ Loss Prevention System Training Certification and 8-hour Refresher yearly

Mr. Koenig, based in our Fort Lauderdale office, brings 17 years of transportation experience in management and completion of assessment projects, remediation projects, environmental construction projects, permitting, and technical report preparation and qualification. Mr. Koenig is a Florida licensed Professional Geologist with a specialization in groundwater and soil contaminant fate and transport. Mr. Koenig has been certified by the Florida Department of Transportation (FDOT) in Advanced Maintenance of Traffic (MOT) and has effectively utilized this training to establish MOT at many project locations. Mr. Koenig has been trained in the Loss Prevention System (LPS) and the American Petroleum Institute's Worksafe program resulting in an exemplary safety record at transportation sites. Mr. Koenig's technical expertise includes hydrocarbon and hazardous waste contamination assessments and remediation system design, implementation and construction. As a registered Professional Geologist and a Project Manager at HCR, Mr. Koenig's responsibilities also include assisting and training junior staff and coordinating various field activities and staffing schedules.

Relevant Experience

Emergency Response – Mr. Koenig has responded to and managed many emergency responses for both FDOT District 4 and Florida's Turnpike Enterprise. His responsibilities included subcontractor management, soil assessment, source removal, waste handling, transport and disposal, free product recovery, MOT, client and regulatory agency contact, and report preparation/review. His efficient response and experienced decision making resulted in faster re-opening of roads and reduced the impact to traffic flow.

Contamination Assessment & **Construction Oversight and Remediation** - Mr. Koenig was heavily involved in the dynamic assessment and remediation projects at the Florida's Turnpike Enterprise Service Plazas. These projects are described below.

- Project Manager Florida's Turnpike Enterprises – Contract # BDD45, LOA # 10 – Florida Turnpike Mainline Mile Post 144, Fort Pierce Turnpike Plaza North, Port St Lucie, FL. FAC ID# 56/8518633. The following activities were completed under Mr. Koenig's direction:

  Project Scope: Assessment and source removal of petroleum impacted soil and groundwater from the historical petroleum dispensing station.

Assessment – Soil and groundwater assessment of multiple petroleum releases related to the former operation of a gasoline dispensing station. Assessment included the installation of over 100 soil borings and the sampling of 43 monitoring wells.

Permitting - Application and receipt of a Florida Department of Environmental Protection (FDEP) National Pollutant Discharge Elimination System (NPDES) Permit and a South Florida Water Management District (SFWMD) General Permit for the dewatering of petroleum impacted groundwater. The permits covered the removal and discharge of an estimated 3.5 million gallons of petroleum impacted groundwater through a vacuum well point system.

Groundwater Treatment - Impacted groundwater was treated prior to discharge using a parallel air diffuser system with an FDEP approved monitoring program. Results indicated 100% efficiency and no discharge of petroleum constituents from the system.

Source Removal – Effective source removal of petroleum impacted soils to a depth of 17 feet below surface. A total of 20,109.47 tons of impacted soils were removed. Impacted soils were disposed at a Class One Subtitle D landfill under non-hazardous manifest. The site was backfilled and compacted with virgin material.

- Project Manager Florida Turnpike's Enterprises – Contract # BDD45, LOA # 10 Florida Turnpike Mainline, Mile Post 144, Fort Pierce Turnpike Plaza South, Port St Lucie, FL. FAC ID# 56/8518634. Activities conducted at his direction include:
  Project Scope – Assessment and Source Removal of free floating petroleum product (FFP) from the currently operating gasoline service station.

  Assessment – Installation of 75 soil borings and 30 monitoring wells. FFP was identified surrounding the current underground storage tanks. FPP measurements exceeded one foot in thickness in some areas.
  Source Removal – A multi-phase extraction system was designed and utilized for the removal of FFP from the existing underground storage system. Project duration was 2 years and resulted in the reduction of FFP across the site. Over 10,000 gallons of FFP and petroleum contact water was removed.

- Project Manager Florida Turnpike's Enterprises – Contract # BDD45, LOA # 9 Florida Turnpike Mainline, Mile Post 65, Pompano Beach Turnpike Service Plaza, Pompano Beach, FL. FAC ID # 06/8622548. Activities conducted at his direction include:

  Project Scope – Underground storage tank closure and permitting for dewatering related to storm water structures and footer installation; closure of underground petroleum and waste oil storage tanks, manifesting of residual sludge, followed by report preparation.

Underground Storage Tank (UST) and Source Removal, Waste Disposal, and Handling – Mr. Koenig has coordinated and completed numerous types of source removal field oversight activities during tank UST upgrades at BP and Exxon-Mobil facilities, as well as other private clients throughout Florida. Responsibilities included subcontractor coordination, delineation of the impacted soils, completed site characterization, soil and groundwater closure assessment, and ensured that the impacted soils were removed from the site with no impact to the project time schedule. Mr. Koenig has coordinated waste profiling and waste manifest documentation for impacted soils with a licensed disposal company, and provided oversight of hydrocarbon impacted soil transportation for disposal. Mr. Koenig also completed UST closure assessment and prepared the necessary regulatory documentation for submission to the appropriate regulatory agency within the required timeframes.

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

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

LICENSE NUMBER
PG2452

The PROFESSIONAL GEOLOGIST
Named below IS LICENSED
Under the provisions of Chapter 492 FS.
Expiration date: JUL 31, 2016

KOENIG, KEVIN G
5801 N.E. 14TH WAY
FORT LAUDERDALE FL 33334

ISSUED: 05/12/2014 DISPLAY AS REQUIRED BY LAW SEQ # L1405120001117

JOSEPH B. LUNDQUIST, P.E.

CONTAMINATED SITE INVESTIGATION/REMEDIATION

HANDEX CONSULTING & REMEDIATION - SOUTHEAST, LLC

Years of Experience: 19

Experience Highlights:

- ✓ Professional Engineer since 2003
- ✓ Fast-track remediation
- ✓ Innovative, cost-effective design approaches
- ✓ Proficient in all phases of contamination assessment, remediation design, installation, O&M services, and closure strategies

Education:

Bachelor of Science in Environmental Engineering, University of Florida, 1994

Registrations and Certifications:

- ✓ FL PE License No. 60161
- ✓ CO PE License No. 41501
- ✓ FDOT Advanced Maintenance-of-Traffic (MOT) Certification
- ✓ OSHA 40-Hour Hazardous Waste Operations and Emergency Response Certification and yearly 8-hour refresher
- ✓ Loss Prevention System (LPS) Training Certification and yearly 8-hour refresher
- ✓ Transportation Worker Identification Credential

Mr. Lundquist has 19 years (11 years as a registered Professional Engineer in the State of Florida) of engineering experience in the environmental field. As a Senior Engineer for HCR, he has managed multiple projects and has extensive experience in all phases of Environmental Investigations, Site Rehabilitation System Design and Construction (including innovative and fast-track approaches), Pilot Testing, UST and AST removals and installations, Source Removals, Environmental Construction Management and Oversight, Project Management Reviews, Installation / Operation / Monitoring of dewatering and effluent treatment systems, Temporary and Permanent Barrier Wall Installations, Waste Disposal/Handling, MOT, and Environmental Permitting (right-of-way, well installation, NPDES, and UIC).

Mr. Lundquist has excellent project management and regulatory liaison skills, allowing him to successfully and cost-effectively complete large site rehabilitation design construction projects such as the FTE Okahumpka Service Plaza. Mr. Lundquist has used Advanced MOT training to safely complete rehabilitation projects and to, above all, keep roadways open and keep traffic moving safely. Mr. Lundquist has performed cost estimating, report preparation, and personnel training and management. Mr. Lundquist's expertise in Environmental Design Engineering and innovative problem solving design has resulted in cost-effective, fast-track rehabilitation solutions on numerous projects with a focus on the safe, continuous movement of traffic and pedestrians.

Relevant Experience

Environmental Investigation and Rehabilitation

- Mr. Lundquist has experience in all phases of Environmental Investigations for the Florida Department of Environmental Protection (FDEP) and the Florida Turnpike Enterprises (FTE) in accordance with Chapter 62-780, FAC. Responsibilities included project management, proposal preparation, subcontractor coordination, soil boring and well installations for vertical and horizontal soil and dissolved-phase investigation and delineation, elevation surveying, regulatory reviews, field documentation, client communications, laboratory data analysis, report writing, project coordination, and development of Site Rehabilitation Closure strategies, including No Further Action (NFA) without Controls and NFA with Controls (institutional and engineering).

Underground and Aboveground Storage Systems Services

- Mr. Lundquist has planned and performed engineering oversight of the removal and installation of multiple petroleum USTs and ASTs and hazardous substance ASTs, in accordance with Chapters 62-761 and 62-762, FAC. Mr. Lundquist performed removal of three petroleum USTs and designed and coordinated the installation of a bulk AST bus fueling area in another portion of the site at Florida's first LEED Platinum Green Public School. Mr. Lundquist also coordinated and completed the removal of two large USTs, permitted and installed a temporary aboveground bulk storage fueling area to avoid fueling downtime, and installed a new bulk UST farm. Mr. Lundquist has additionally managed the replacement of an 8,000-gallon hydrofluoric acid AST and the relining of acid pickling ASTs with polypropylene at a stainless steel pipe manufacturing facility.

Environmental Design Professional

- Mr. Lundquist has performed numerous types of remediation system designs. Responsibilities included site-specific pilot testing, data analysis, system concept and design, cost analyses, constructability reviews with in-house construction department, regulatory reviews, client communications, and Remedial Action Plan preparation.

Environmental Construction Management

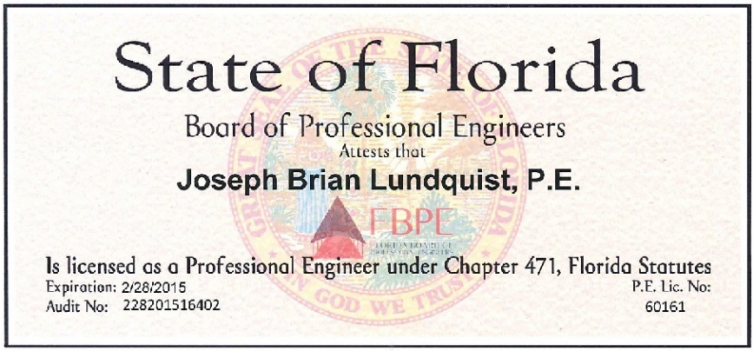
- Mr. Lundquist has supervised the installation of many remediation technologies, including air sparge/soil vapor extraction, pump-and-treat, insitu chemical/biological injections, soil excavation via conventional means and Large Diameter Auger (LDA), oxygen injection, and solar-powered and electric free product recovery. Prepared detailed Bid Specifications and Construction Drawings and conducted constructability reviews with the in-house construction department. Performed installation cost proposals, capital equipment procurement, MOT planning, project management, and client communications for pre-construction input and guidance.

Environmental Construction

- Mr. Lundquist provided Professional Engineer oversight during the underground and aboveground installation of many remediation technologies as listed in the "Environmental Construction Management" section. During construction Mr. Lundquist was also responsible for subcontractor coordination, coordination with the in-house construction manager and onsite foreman, setup and maintaining MOT, remediation well installations, field construction documentation including redlining construction drawings for as-built preparation, client communications for progress and change orders, and report writing.

Other Relevant Experience

- Designed the largest petroleum cleanup system in the State of Florida, at the time, consisting of three remediation trailers servicing a total of 157 AS wells and 120 SVE wells.
- Developed a Green solar-powered free product recovery system that operated solely on solar panels with rechargeable battery backup.
- Assisted with the design of a phytoremediation system that utilized limpograss for the removal of nitrates as the final remediation step of a solvent remediation system that removed volatile organics via air stripping, 1,4-dioxane via ultraviolet oxidation, followed by a spray-field with limpograss for nitrate removal and treated groundwater infiltration.
- Developed a Spill Prevention Control and Countermeasures (SPCC) Plan and Best Management Practices Plan for a stainless steel pipe manufacturing facility.



State of Florida

Board of Professional Engineers

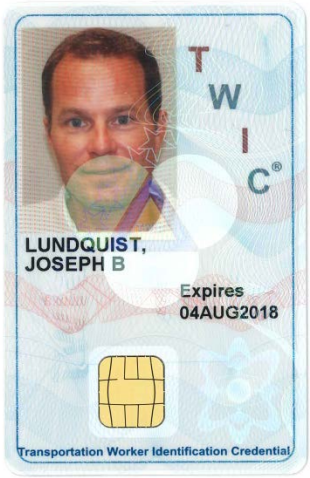
Attests that

Joseph Brian Lundquist, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015 P.E. Lic. No: 60161

Audit No: 228201516402



Years of Experience: 27

Experience Highlights:

- ✓ Proficient in the application of construction services to all phases of environmental remediation
- ✓ Constructability reviews with engineering staff
- ✓ Proficient in permitting of environmental remediation construction projects
- ✓ MOT implementation
- ✓ Maintaining project schedules with concurrent operations

Education:

Associate of Arts Degree from Hillsborough Community College

Registration and Certifications:

- ✓ Florida Certified General Contractor CGC062681
- ✓ Florida Certified Pollutant Storage System Contractor PCC055742
- ✓ OSHA 40-Hour Hazardous Materials Health and Safety Certification and 8-Hour Refresher yearly
- ✓ Loss Prevention System Training Certification and 4-hour Refresher yearly

Mr. Newton has over 27 years of experience in the environmental construction, engineering and consulting industry in Florida. His experience with regulatory agencies in Florida and the Florida Department of Environmental Protection (FDEP) started with the Early Detective Incentive (EDI) program, working through the Abandoned Tank Restoration Program (ATRP). Mr. Newton is a state certified General Contractor (GC) and Pollutant Storage System Contractor (PSSC) and presently qualifies HCR as a GC and PSSC contractor within the State of Florida. His technical expertise has provided practical, cost effective, and environmentally sound solutions to construction projects involving over 300 removals of underground/aboveground storage tanks (USTs/ASTs), 200 source removals and the installation of over 200 remediation systems.

Mr. Newton's technical experience includes all phases of field-testing and sample collection, including screening of soils with OVAs and FIDs. Mr. Newton began his career as an installation and O&M technician before becoming a technical supervisor and a construction manager in 1988. He presently handles all phases of construction management including cost development and project review for constructability. He works closely with engineering to develop the means and methods to build and implement projects and assists with proposals to clients, such as Florida Department of Transportation (FDOT), Florida Turnpike Enterprises (FTE), and FDEP. Mr. Newton's responsibilities include acquiring the building and construction permitting; scheduling and procuring all materials, equipment, and staffing; and subcontractor management. Mr. Newton possesses exceptional communication and project management skills, ensuring that all projects are performed safely, are cost effective, and meet all regulatory requirements. His knowledge of construction allows him to expedite projects cost-effectively, while minimizing delays and impacts to our clients, their subcontractors and concurrent operations.

Relevant Experience

Environmental Investigation & Rehabilitation - Mr. Newton has performed all phases of field investigations of environmental impacted sites to identify the horizontal and vertical extent of the contaminate plume related to the site. The field work included soil borings and field testing of soils with OVAs and FIDs to well gauging, surface sampling, and collection of water and soil samples for further laboratory analysis.

Underground and Aboveground Storage Systems Services - Mr. Newton has performed over 200 Underground Storage Tank removals and over 20 Aboveground Storage Tank removals over the last 25

years throughout Florida. At the beginning of the 1990s, UST removals were the older steel USTs installed prior to the 1980s to make the sites eligible for the Abandoned Tank Restoration Program (ATRP). At the end of the 1990s Mr. Newton managed, and supervised over 100 Underground Storage Tank Removals at ExxonMobil Divested Retail Fuel Stations and other petroleum jobbers throughout Florida. Responsibilities included, permit acquisition, subcontractor coordination, equipment coordination, MOT, contamination assessment, regulatory reviews, field documentation, client communications, and project management.

Environmental Construction Management - Mr. Newton has worked with the Professional Engineers (PE) and Hydro geologists (PG) to help design and also perform constructability reviews of the Remedial Action Plans prior to RAP submittal to FDEP for review and approval.

Environmental Construction - Mr. Newton has managed numerous construction projects for the FDOT, FTE, FDEP, DERM and PEECO. Responsibilities included design, constructability review, proposal preparation, building permitting, subcontractor coordination, equipment installation, responsible for OSHA safety requirements, remedial equipment installation, MOT implementation, field documentation, project management, and client communications.

- Port Everglades Environmental Company (PEECO), Fort Lauderdale, FL – Construction manager responsible for constructability review of the remedial design, cost estimating of construction activities, permitting and material acquisition to install two free product recovery systems at Berths 12 and 13. The free product recovery systems consisted of a total of 36 recovery wells equipped with QED skimmer pumps to recover free product utilizing two Ingersoll-Rand reciprocating compressors and seven QED programmable air controllers housed in two equipment buildings rated for Class I, Division II conditions. The second phase of remediation included the installation of 12 infiltration recovery wells utilizing Large Diameter Filter Scavengers for free product recovery at Pier 1, Berth 9 in anticipation of the slip-widening sea wall construction activities.

- Florida Turnpike Enterprise, Fort Drum Service Plaza remediation project. Responsible for the construction management of a $1.9 million remediation system. Project required constructability review, cost estimation, permitting, material and equipment acquisition, trenching, piping, infiltration gallery installations, equipment installations, backfill compaction, resurfacing, and landscaping. The scope of work included tying into 274 sparge wells and 98 VE wells. The piping terminated into three separate satellite compounds with manifolds and large diameter header pipes tying the manifolds into the remedial equipment compound. The remedial equipment was comprised of 2 equipment trailers with carbon absorption and an electric catalytic oxidizer for off gas treatment.

- Former Service Station Site in Islamorada remediation project. Construction manager responsible for the construction management and installation of $1.0 million remediation system. Project required constructability reviews, cost estimation, permitting, material and equipment acquisition, trenching, piping, infiltration gallery installations, equipment installations, resurfacing, landscaping and angled drilling under the US Hwy 1. The scope of work included tying into 48 sparge wells and 26 VE wells. The remedial equipment was comprised of 2 separate remedial systems including the equipment enclosures with carbon absorption for off gas treatment.

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD (850) 487-1395
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATION - SOUTHEAST LLC
6756 EDGEWATER COMMERCE PKWY
SUITE 200
ORLANDO FL 32810

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Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!

STATE OF FLORIDA AC# 6192434
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CGC062681 07/09/12 128005365

CERTIFIED GENERAL CONTRACTOR
NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATIO

IS CERTIFIED under the provisions of Ch.489 FS
Expiration date: AUG 31, 2014 L12070901050

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STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L12070901050

DATE	BATCH NUMBER	LICENSE NBR
07/09/2012	128005365	CGC062681

The GENERAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2014

NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATION - SOUTHEAST LLC
6756 EDGEWATER COMMERCE PKWY
SUITE 200
ORLANDO FL 32810

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD (850) 487-1395
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATION - SOUTHEAST LLC
6756 EDGEWATER COMMERCE PKWY
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ORLANDO FL 32810

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STATE OF FLORIDA AC# 6192562
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

PCC055742 07/09/12 128005365

CERT POLLUTANT STORAGE SYS CONTR
NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATIO

IS CERTIFIED under the provisions of Ch.489 FS
Expiration date: AUG 31, 2014 L12070901178

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STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L12070901178

DATE	BATCH NUMBER	LICENSE NBR
07/09/2012	128005365	PCC055742

The POLLUTANT STORAGE SYSTEMS CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2014

NEWTON, JOSEPH EVANS
HANDEX CONSULTING AND REMEDIATION - SOUTHEAST LLC
6756 EDGEWATER COMMERCE PKWY
SUITE 200
ORLANDO FL 32810

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

ROBERT SEVRET, JR.

CONSTRUCTION MANAGEMENT

HANDEX CONSULTING & REMEDIATION - SOUTHEAST, LLC

Years of Experience: 18

Experience Highlights:

- ✓ Florida's Turnpike Program Manager since 2008
- ✓ Managed $15M Capital Improvements on 7 plazas
- ✓ Contract negotiations, strategic planning, cost saving solutions
- ✓ Proficient in all aspects of assessment & remediation
- ✓ General Manager of Southeast Construction

Education:

B.A. Earth Science, Kean University

Registration and Certifications:

- ✓ Advanced MOT (BT-05-0079)
- ✓ American Petroleum Institute Work Safe Key #3598085
- ✓ OSHA 40-Hour Hazwoper, yearly 8-hr. refresher
- ✓ Loss Prevention System Training Certification and 8-hour Refresher yearly
- ✓ Transportation Worker Identification Credential (TWIC®), Transportation Security Agency

Mr. Sevret has over 18 years of experience managing a wide variety of very high profile complex projects in the transportation, petroleum, industrial, construction and environmental field. He is the acting Program Manager for the Florida's Turnpike Enterprise (FTE) and General Manager for HCR's Southeast Construction Division. Mr. Sevret's technical and professional expertise includes management of the Turnpike-Wide Hazardous Materials Response Services Contract, including Senior Program Environmental Advisor within the DOT/Environmental Management Office, impact construction review, budget/cost analysis, transaction screening, PH-I/IIs, QA/QC, 24/7/365 emergency response activities, hydrocarbon and hazardous waste contamination assessments, source removals, remediation system design and installation, abatements and surveys, operation & maintenance, construction management services, and dewatering. His experience includes regulatory compliance, FDEP reporting, maintenance of traffic (MOT), property evaluations, right-of-way, and landfill management. Mr. Sevret maintains outstanding communicative skills at all levels, manages an average of $8.5M annually, and provides invaluable responses and services to our clients. Previously, Mr. Sevret worked for Amoco Oil and Groundwater Environmental Services based in New Jersey.

Relevant Experience

Florida Turnpike Service Plaza Renovation & Capital Improvement Project ($162M)-Ongoing: Acting Environmental Program Manager since 2008 and responsible for the management, mitigation, planning, budget/cost analysis, auditing, construction, QA/QC per FDOT Specifications, permitting, and is acting liaison between FTE & FDEP. The multiple project levels include assessments, dewatering/treatment, excavations, line/utility removals, site closure, UST extractions, ACM/LBP surveys & abatement and emergency response.

- Worked between all parties from conceptual planning through build to secure an additional $7.2M in funding from the FDEP.
- Acted as liaison between FDEP, FDOT and Waste Management in modifying the disposition method of soil as part of the plaza upgrades resulting in tax payer cost savings of over $1.2M.
- HCR successfully managed multiple heavy construction and dewatering projects simultaneously while adhering to the schedule constraints of the general contractor and concessionaire.

Orlando Utilities Commission ($1.5M)-Complete: Excavation of approximately 4,000 tons of heavy residual oil-impacted soil, three steel USTs, and piping at the former Lake Highland Water Treatment Plant owned and operated by OUC. The source removal included engineered sheet piling 7 feet from an active CSX rail line, track monitoring, continuous surveying, flagging operations, fiber optic utility relocation, and hydraulic depression of the excavation area utilizing a well point dewatering system while maintaining the integrity of the rail line. The recovered groundwater was treated through a series of filters and sludge isolators prior to discharge to sanitary sewer. Following source removal activities, the area was backfilled, compacted, and restored with ballast rock and sod. The excavated area has remained below detection limits.

- Acted as general liaison between OUC and FDEP in securing additional funding to offset 30% of the costs at this high profile location in downtown Orlando.
- The work was performed on schedule and ahead of a proposed bike and walking trail through Orlando.
- The site received a Site Rehabilitation Completion Order in 2014.

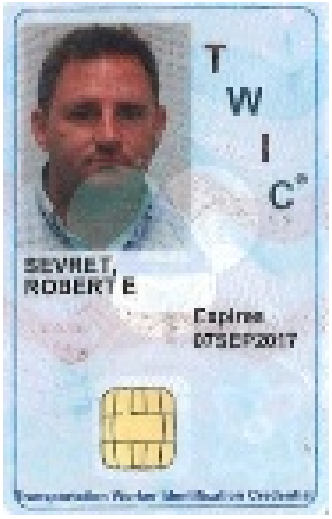
OUC- Lake Ivanhoe Former Coal-fired Power Plant ($1.4M+)-Complete: Performed site assessment/construction activities at the former Lake Ivanhoe Power Plant owned and operated by OUC. Assessment included the installation of soil borings, monitoring wells, concrete core samples, and subsurface imaging utilizing ground penetrating radar and electro-magnetic reduction within the basement of the facility which is currently the Dr. Phillips Performing Arts Center. The primary focus of the assessment was to identify the impacted areas, map the limitations of the sub floor structure, and provide analytical data for the concrete aggregate prior to implementation of a remedial action plan

Florida's Turnpike ACM / LBP Surveys- Ongoing: Coordinated and managed the ACM survey of over 150 bridges along FTEs mainline and ancillary roadways. The project included the homogenous sampling classification of accessible points prior to demolishing and/or restructuring. Pre-emptive work coordination included development of site specific health and safety plans, job safety analysis, and MOT plan. The ACM deliverable included analytical data, photo documentation, disposition certificates, and recommendations for handling and/or abatement.

ACM Abatement- Completed the asbestos abatement of 2800 linear feet of ACM at the Avalon Road Bridge in Winter Garden, FL. The work scope included the removal of mastic sealant along the joints of the concrete bridge abutment, MOT plan, and restoration of the joints utilizing non-ACM flowable fill to curb erosion prior to demolishing. The ACM deliverable included analytical data, photo documentation, disposition certificates, and landfill acceptance records.

FDEP Remedial System Installations: Performed over 75 system installations across Florida as a construction project manager since 2001 ranging from air sparge / vent to thermal incineration units.

Florida's Turnpike Emergency Response Services (2001-Ongoing): Managed over 200 emergency responses ranging from rolled over fuel tankers to aircrafts landing on the roadway. HCR is responsible for over 460 miles of FTE owned roadways. The general scope of work includes first response, mitigation, roadway cleanup / opening, assessments, vacuum extraction, source removals, water bodies, closure, and reporting.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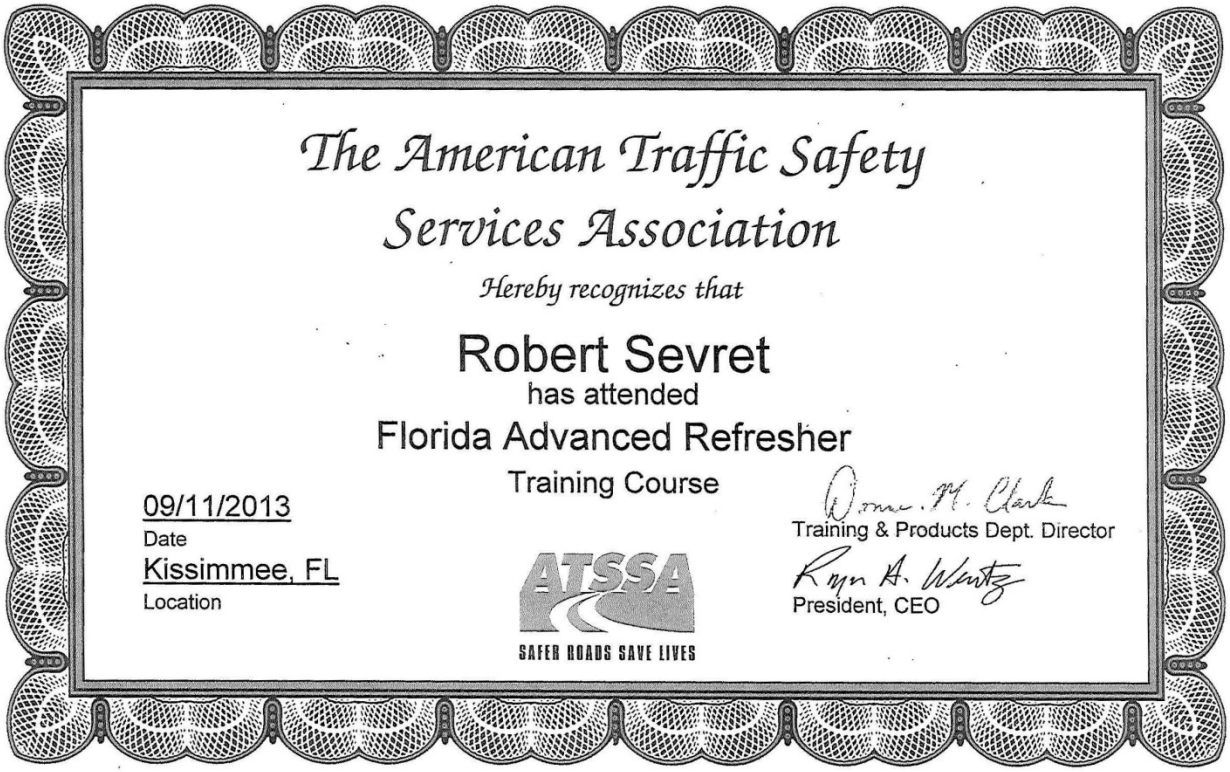

The American Traffic Safety
Services Association
Hereby recognizes that
Robert Sevret
has attended
Florida Advanced Refresher
Training Course
09/11/2013
Date
Kissimmee, FL
Location
ATSSA
SAFER ROADS SAVE LIVES
Training & Products Dept. Director
President, CEO

KEY PERSONNEL

George A. Tibedo, PE

Senior Coastal Engineer

Education:

PhD Candidate
Ocean Engineering
Florida Atlantic University

Master of Engineering
Ocean Engineering
Florida Atlantic University

Bachelor of Science
Ocean Engineering
Florida Atlantic University

Associate of Science
Engineering
Salem State College

Registrations/Certifications:

Professional Engineer: FL

Years' Experience:

26

Professional Affiliations:

American Society of Civil Engineers

Institute of Transportation Engineers

Rotary International

Mr. Tibedo has more than 26 years of engineering design and construction management experience on waterfront marine and coastal engineering projects including structural, marine, coastal, civil, and geotechnical disciplines, as well as commercial office and retail buildings, industrial and military buildings, and structure rehabilitation. Representative projects include waterfront modifications, recreational and industrial marinas, bulkheads, seaport piers and wharfs, container yards, fendering systems, retaining wall structures, seaport cruise terminals, office facilities, parking garages, dredging and beach nourishment projects, greenfield site development, and EPA Superfund sites.

Canal Dock and Long Wharf Redevelopment, Connecticut Department of Transportation, New Haven, CT. Project Manager responsible for full wind-wave hydrodynamic model of Long Island Sound and New Haven Harbor, full feasibility study for the proposed marina and waterfront development at Canal Dock Park and Long Wharf, development of conceptual and final designs for the marina facilities, determination of flood loads for all waterfront structures including the 50,000 SF concrete platform and 30,000 SF Adee Boathouse and bulkhead and soft shoreline protection systems.

NAS Mulberry Cove Marina, NAS Jacksonville, FL. Project Manager responsible for a 96-slip naval recreational marina consisting of floating docks with full utilities at the Naval Air Station base in Jacksonville, FL. The work included a Project Validation Assessment, wind-wave and hydrodynamic analysis, design of a floating wave attenuation system, preparation of project specifications and designs, conducting reviews and evaluations of construction proposals for the project, and engineering construction oversight.

Fronting Protection, Jefferson Parish Pump Stations, US Army Corps of Engineers, New Orleans District, New Orleans, LA. Project Manager responsible for evaluation, analysis, and design of new or upgraded floodwall protection monoliths, gate structures, discharge tubes, and stilling basins designed to upgrade the level of flood protection immediately around the seven primary Jefferson Parish Pump Stations. Geotechnical changes included analysis and design of deep pile foundation systems and global stability issues related to massive T-wall monoliths and elevated design criteria following the Hurricane Katrina disaster. Techniques such as deep soil mixing were designed into the project specifications to mitigate the effects of extremely unstable deep soils allowing the implementation of conventional, more cost-effective foundation systems and solutions. This work resulted in the award of two Certificates of Appreciation.

KEY PERSONNEL

2:06:58 PM 6/16/2014

Licensee Details

Licensee Information

Name:	**TIBEDO, GEORGE ALLEN (Primary Name)**
	(DBA Name)
Main Address:	**227 MCCOY DRIVE** **LAKE PLACID Florida 33852**
County:	**HIGHLANDS**
License Mailing:	
LicenseLocation:	

License Information

License Type:	**Professional Engineer**
Rank:	**Prof Engineer**
License Number:	**54291**
Status:	**Current,Active**
Licensure Date:	**05/06/1999**
Expires:	**02/28/2015**

Special Qualifications	Qualification Effective
Structural 1	**05/06/1999**
Building Code Core Course Credit	**04/26/2005**

View Related License Information

View License Complaint

Years of Experience: 14

Experience Highlights:

- ✓ Experienced project manager
- ✓ Proficient in all phases of contamination assessment and remediation services
- ✓ Schedules and manages HCR drilling crew used for fast track assessments

Education:

Bachelor of Science in Natural Resources and Environmental Economics, University of Florida

Registrations and Certifications:

- ✓ Qualified Stormwater, Erosion, and Sedimentation Control Inspector Program #871
- ✓ Florida Department of Transportation Advanced Maintenance of Traffic
- ✓ OSHA 40-Hour Hazardous Materials Health and Safety Certification and 8-Hour Refresher yearly
- ✓ Loss Prevention System Training Certification and 8-hour Refresher yearly

Mr. Vaughn has over 14 years of environmental experience in project management, completion of Phase I & II assessment projects, contamination assessments, remedial system design, environmental permitting, UST system removal, source removal, remediation project monitoring, regulatory compliance, sensitive receptor surveys, hazardous waste disposal, and technical report preparation. Technical expertise includes Phase I & II assessments, hydrocarbon and hazardous waste contamination assessments, remediation system design and implementation, technical oversight, and emergency response for petroleum surface spills.

Relevant Experience

Emergency Response - Performed and managed numerous emergency responses from surface spills at locations including retail service stations, right-of-ways, and wetland areas. Responsibilities included securing area of spills, coordination of subcontractors, collection of product and contacted media, collection of soil and/or groundwater samples for laboratory analyses, coordination of waste removal for disposal, and report preparation.

Petroleum Hydrocarbon Site Assessment - Performed and managed numerous site assessment projects conducted in accordance with Chapter 62-770 of the Florida Administrative Code. The purpose of these assessments was to define the nature and extent of petroleum hydrocarbons in subsurface media. The assessment activities included the setup of MOT, performance of soil borings, installation of groundwater monitoring wells, interpretation of soil/groundwater sampling analyses, waste profiling and disposal, site surveying, evaluation of lithology, determination of groundwater flow and gradient assessment, and report preparation.

RCRA Metals Site Assessment - Performed and managed environmental site assessment and source removal projects on privately owned properties to evaluate on-site soil and groundwater conditions with respect to RCRA metals. Responsibilities included review of previous assessment activities of other consultants, collection of soil samples for laboratory analyses via hand auger, oversight of monitoring well installation activities for groundwater sampling, coordination of source removal activities, and report preparation.

Phase I, Phase II, and Divestment Site Assessment - Performed and managed numerous phase I, phase II, and divestment site assessment projects related to sale of property. The site assessments included the research of property history (including environmental regulatory history), determining violations of regulatory compliance, identifying recognized environmental concerns, performance of soil borings for the purpose of evaluating lithology, assessment of potential impacts from regulated pollutants,

performance of groundwater sampling, removal of previously undiscovered USTs, removal of hazardous waste, and preparation of site assessment reports detailing findings.

Source Removal and UST System Closure Assessment - Performed and managed numerous source removal and UST system closure assessment projects conducted in accordance with Chapter 62-761 of the Florida Administrative Code. The activities associated with the closure assessment included weekly conference calls, obtaining permits for dewatering activities from Government agencies, coordination with other contractors on jobsite, coordination and set up of dewatering equipment, oversight of dewatering equipment, oversight of UST system excavations, waste profiling and disposal, assessment of soil and groundwater associated with the UST removal, and preparation of UST system removal reports detailing activities of soil and groundwater assessment.

Remediation System Design & Construction - Performed and managed numerous remedial system installations including design, scheduling, cost estimating, coordination of construction crews and subcontractors, setup of MOT, field oversight, operation and maintenance of remediation systems, scheduling, budgeting, coordination of field technicians, evaluation of system operational data, analytical data reduction, client and regulatory reporting. The systems were regulated within the Remedial Action Initiative (RAI) Program which mandated minimum run time. Each system was managed through continuous remote telemetry and augmented by O&M visits conducted monthly.

Environmental Permitting – Prepared and evaluated permit applications, performed environmental inspections, and reviewed environmental reports to determine land use compatibilities for potential development projects.

QUALIFIED
STORMWATER MANAGEMENT
INSPECTOR

DEPARTMENT OF ENVIRONMENTAL PROTECTION
FLORIDA

The undersigned hereby acknowledge that

Brian Vaughn

has successfully met all the requirements necessary to be fully certified through the Florida Department of Environmental Protection Stormwater, Erosion, and Sedimentation Control Inspector Training Program

December 5, 2000

Greg Knecht

Inspector # 871

Daniel R. DeWiest

Certificate of Qualification

This certifies that

Brian Vaughn

has attended and successfully completed the Florida DOT Approved Course

Advanced Maintenance of Traffic

Conducted at Orlando, FL on the 12 day of February, 2014

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

Allen Schrumpf
Instructor

David Page
Program Coordinator

T2 CTT
Florida Transportation Technology Transfer Center
Provider 36

Expiration Date: 2/14/2018

SCOTT YELVERTON

UNDERGROUND STORAGE TANK SITES/REAL ESTATE DEVELOPMENT

HANDEX CONSULTING & REMEDIATION - SOUTHEAST, LLC

Years of Experience: 13

Experience Highlights:

- ✓ Proficient in all phases of contamination assessments, emergency response, and impact to construction assessments
- ✓ Quality Assurance and Quality Control Specialist

Education:

Bachelor of Science in Environmental Science/Geography, Mansfield University

Registrations and Certifications:

- ✓ FDEP Qualified Stormwater Management Inspector (28459)
- ✓ ATSSA Florida Advanced Work Zone Traffic Control Course
- ✓ OSHA Confined Space Entry
- ✓ OSHA 40-Hour HAZWOPER and 8-Hour Refresher Annually
- ✓ Loss Prevention System Training Certification and 8-hour Refresher Annually
- ✓ CSX Roadway Worker Protection Contractor Safety
- ✓ Seaport Security Identification Card
- ✓ Ramp Operation Driving Training
- ✓ Aircraft Operations Area Driver Training and License
- ✓ Transportation Worker Identification Credential (TWIC)

Mr. Yelverton has more than 13 years of experience in the environmental industry. His experience includes numerous environmental site assessments, coordination and management of contamination assessments, above-ground storage tank and underground storage tank removal and closures, environmental sampling and analysis, monitoring well installation and abandonment, source removal and solid waste excavation and disposal, roadway emergency response operations, and has participated in the development of remedial action plans. Throughout the State of Florida and the Caribbean, he has collected, analyzed, and managed environmental data on numerous projects and is proficient with field sampling in accordance with the Florida Department of Environmental Protection (FDEP) Standard Operating Procedures for Field Activities.

Mr. Yelverton has participated and managed site assessment projects for the Florida Department of Transportation (FDOT), Miami-Dade Expressway Authority, Miami-Dade County Aviation Department, Broward County Aviation Department, Miami-Dade County Public Schools, Miami-Dade Water and Sewer Department, Miami-Dade Parks and Recreation, South Florida Water Management District, United States Army Corps of Engineers, and numerous private sector clients. He has served as a hazardous materials safety officer, security liaison and authorized company signatory for the Miami International Airport, FDEP Standard Operating Procedures administrator, staff-level field personnel supervisor and trainer, and has maintained and operated a Geoprobe direct-push unit.

Relevant Experience

Environmental Investigation and Rehabilitation

- Mr. Yelverton has performed numerous contamination and environmental site assessments in south Florida and the Caribbean. These studies included the preparation of work plan and cost estimates, managing project funding, daily project reporting, quality assurance/quality control, review of regulatory files, area reconnaissance, soil boring and monitoring well installation, soil and groundwater sampling, soil gas screening, interpretation of chemical analyses, geological description, aquifer characterization analyses, client and regulatory correspondence, determination of contaminants and extent of impact to surrounding media, report compilation, and proposal and technical report writing.

- Miami Intermodal Center/Former Proposed Tri-Rail Parking Lot, Miami, Miami-Dade County, Florida. Managed and coordinated quarterly sampling of onsite monitoring wells for arsenic, soil delineation and source removal of approximately 278 tons of arsenic impacted soils, and site restoration. Responsibilities included management of project budget, daily project reporting to client, coordination of field activities, coordination with prime contractor and construction engineer inspection (CEI) personnel, regulatory agency compliance, historical review of previous site assessments, source removals, and solid waste disposal activities, and preparation of technical and closure reports.

- Mr. Yelverton has performed impact to construction assessments (ICA) at multiple sites in FDOT District 4 and District 6 that comprised state roads, and property acquisitions. Responsibilities included coordination of field personnel, supervising/performing soil screening, sediment sampling, temporary monitoring well installation and sampling, laboratory data analysis, and report preparation.

Environmental Construction Management - Mr. Yelverton has performed numerous types of construction oversight and remediation services for the FDOT, FTE, and FDEP. Responsibilities included daily project reporting, quality assurance/quality control, construction site management, schedule management/reporting, project coordination with subcontractors, and communication with State and county regulatory agencies.

- SR-5/US-1 Drainage Improvement Project, Riviera Beach, Palm Beach County, Florida (FM#229744-3-52-01, FDOT (D4) - Contract BDS12) – Onsite DWCAR liaison, performed groundwater effluent monitoring of the dewatering system, and coordinated the installation of approximately 200 linear feet of an in-situ groundwater barrier wall. The wall was constructed of a hydro-insensitive two-part polymer injected below the ground surface to form a continuous rigid geotechnical polyurethane grout curtain. The project won a Prudential Davis Productivity Award (2013) for utilizing innovative construction methodology and use of a new technology to prevent the migration of a contaminated groundwater plume into the work zone during dewatering operations related to drainage and potable water utility installations.

- Asbestos/Lead-based Paint Abatement CSX/Amtrak Train Station, Fort Lauderdale, Broward County, Florida (FM#429946-1, FDOT (D4) - Contract BDS12) – Performed oversight of asbestos containing materials and lead-based paint abatement and disposal in preparation for the train station building and platform canopy renovation project. Scheduled abatement subcontractors and coordinated field activities in conjunction with the prime contractor. Performed oversight of the air monitoring and follow-up wipe/air clearance testing. Prepared the summary of field activities report.

Other Relevant Experience – Mr. Yelverton has performed environmental services for site remediation projects involving the recovery of free-phase petroleum products by both active (drawdown) and passive (in-well skimming) techniques and pump and treatment of groundwater. He has been involved with the development and operation of multiple free-product recovery systems at bulk storage terminal facilities in the Caribbean.

- ChevronTexaco Terminal Remediation, Grand Cayman, British West Indies – Participated in the installation, repair, operation, and maintenance of a free-phase product recovery system implemented at the ChevronTexaco bulk fuel terminal located on Grand Cayman Island in the British West Indies.

QUALIFIED
STORMWATER MANAGEMENT
INSPECTOR

The undersigned hereby acknowledges that

Scott Yelverton

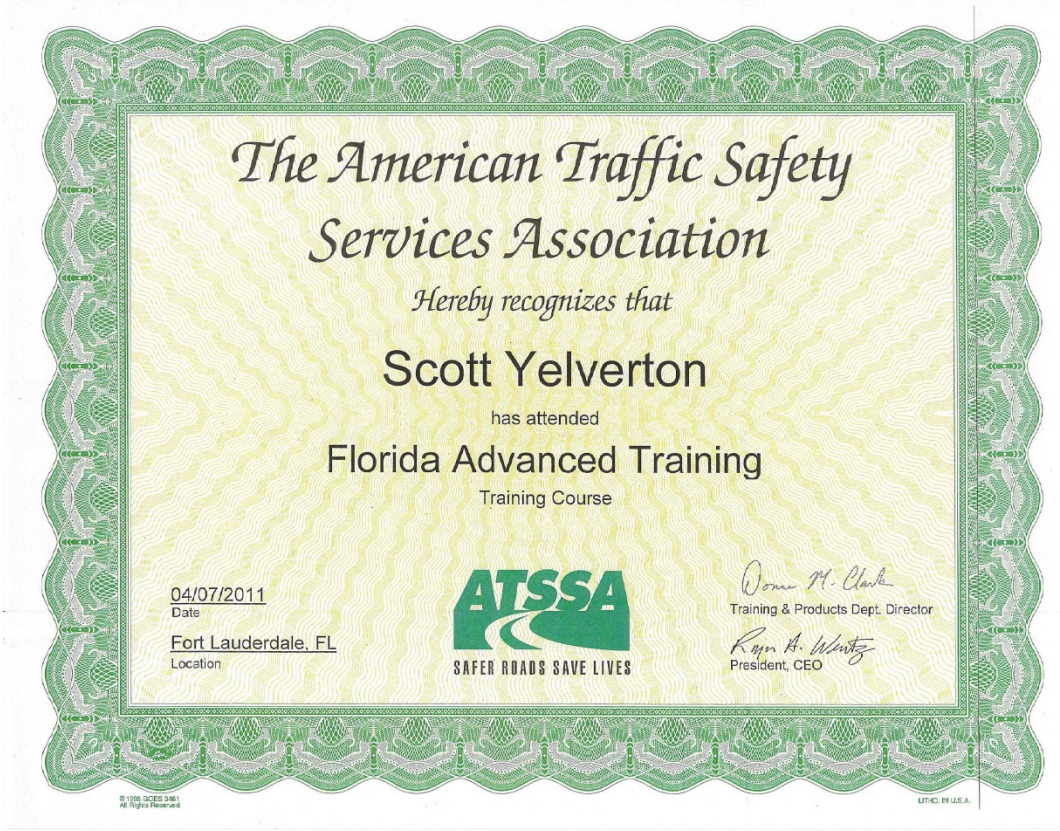
has successfully met all requirements necessary to be fully qualified through the Florida Department of Environmental Protection Stormwater Erosion and Sedimentation Control Inspector Training Program

March 15, 2013

Hal Lunsford

Inspector Number 28459

Lee Marchman, P.E.



The American Traffic Safety Services Association

Hereby recognizes that

Scott Yelverton

has attended

Florida Advanced Training

Training Course

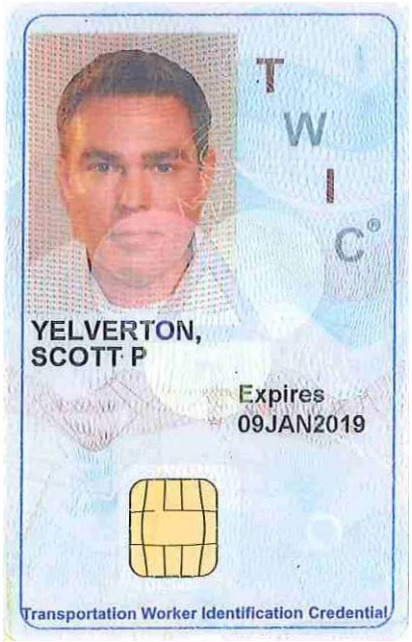
04/07/2011
Date

Fort Lauderdale, FL
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO



CSX	Roadway Worker Protection
	Contractor Safety
2012 ANNUAL CERTIFICATION	
Name: Yelverton, Scott	
Company: Handex Consulting & Remediation, L.L.C.	
Issued: January 30, 2013	
Facilitator: Hector Hartmann Fac. No. 12-1346	
CSX Public Safety Coordination Center 1-800-232-0144	
Non-Emergency Environmental 1-877-Tell-CSX	

APPENDIX C
Project Profiles

The following Project Summaries are provided in this Appendix showcasing Handex Consulting & Remediation – Southeast, LLC's and Buchart Horn, Inc.'s diverse technical capabilities.

- ✓ **Florida Department of Transportation Local Agency Program (LAP), Glynn Archer Dr./14th St. - Reconstruction - Roosevelt Blvd. to Flagler Ave., Key West, Florida**
- ✓ **Port Everglades Environmental Corporation, Environmental Assessment, Design, Installation, Operation and Maintenance of Free Product Recovery System, Tidal Studies, Exfiltration Tests, Environmental Liability Management**
- ✓ **Spill Prevention, Control, and Countermeasure (SPCC) Plans, Palm Beach County, Florida**
- ✓ **Okahumpka Service Plaza Remedial Action Plan and Implementation, Florida's Turnpike Enterprise**
- ✓ **E. Blue Heron Blvd& SR-5 (US-1) Subsurface Groundwater Cut-off Wall Installation**
- ✓ **Site Assessments at Multiple Water and Sewer Pump Stations, Miami-Dade Water and Sewer Department**
- ✓ **Florida's Turnpike Enterprise, Comprehensive Contamination, Assessment, and Remediation Services**
- ✓ **Hialeah Rail Yard Emergency Response, Sampling and Analytical Testing, Hazardous Materials Handling, and Environmental Assessment, and Environmental Training**
- ✓ **Asbestos, Lead, and Mold Surveys and Abatement, Multiple Structures and Facilities in FDOT District Four**
- ✓ **Former Pharmaceutical Lab Decommissioning**
- ✓ **In-House Technical Support, Roadway Plan and Project Review and NEPA Support**
- ✓ **Environmental Compliance Audits, Multiple Tenants within Miami-Dade International Airport**
- ✓ **Lead Removal, Hillsborough County Firing Range**
- ✓ **Canal Dock and Long Wharf Redevelopment Connecticut Department of Transportation, New Haven, CT**
- ✓ **Fronting Protection for Jefferson Parish Pumping Stations USACE New Orleans District, Louisiana**
- ✓ **Mulberry Cove Marina Expansion Jacksonville Naval Air Station, Jacksonville, Florida**

Florida Department of Transportation Local Agency Program (LAP)
Glynn Archer Dr./14th St. - Reconstruction - Roosevelt Blvd. to Flagler Ave., Key West, FL

Location
The City of Key West
Monroe County, Florida

Client
D. N. Higgins, Inc.
Contact: Matthew DeLuca
941-309-5275

Project Team
Timothy L. Harman, P.E.
Kaled Essraowi
Joe Newton
Mark Hinkle
Jose Colon
Ralph Munoz
Scott Yelverton

Period of Performance
May 2012 to September 2012

Approximate Fees
$414,864

HCR Role
Prime

Handex Consulting & Remediation - SE (HCR) was the contamination assessment and remediation (CAR) contractor for this project, as a subcontractor under the control and direction of the roadway contractor Douglas N. Higgins, Inc. This project was a Local Agency Program (LAP) project funded with Federal funds with additional oversight and assistance from FDOT District 6.

The project included infrastructure improvements along Glynn Archer Drive/ 14th street from Roosevelt Blvd. to Flagler Avenue in Key West. Enhancements included roadway reconstruction, drainage improvements, new sidewalk and curb and gutter along both sides of the corridor, parallel parking, ADA compliant curb ramps, and signing and pavement markings upgrades. Three discrete contaminated areas were partitioned within the project corridor and in the vicinity of a former gas station, an automotive repair facility, and a historical dump site. Contaminants ranged from petroleum, chlorinated solvents, metals, and a known biocide/pesticide above state cleanup target levels in soil and groundwater.

HCR Innovations and Client Benefits

- Innovative Management Approach – Multi-party coordination work was procured through an innovative approach putting the CAR Contractor under the control of the roadway contractor rather than the traditional method of CAR work being conducted through the DCIC. HCR brought our 18 years of CAR Contractor experience to the project to facilitate a smooth and seamless implementation.
- Cost savings realized from reuse of excavated soils if testing results were below applicable testing target levels and if the material met suitable classifications and engineering properties.

HCR's scope of work included preparation and implementation of a project specific health and safety plan, waste disposal plan, dewatering plan and applicable permitting. HCR also performed soil excavation, staging, sampling, transportation and coordination of proper manifesting and disposal of contaminated soils within contaminated areas during construction activities.

HCR performed worker exposure management through engineering controls and monitoring for contaminants of concern in the work area. HCR performed dewatering treatment, monitoring, sampling and coordinated disposal to the local publicly owned treatment works (POTW). HCR installed drainage pipe and associated structures within the contaminated areas, as necessary. HCR also provided environmental oversight and environmental project closeout documentation. Whenever possible, soils were reused if testing results were below applicable testing target levels and if the material met suitable classifications and engineering properties.

Additionally, HCR coordinated the CAR work with the client (D.N. Higgins, Inc.), the City of Key West, and the Florida Department of Transportation, District 6, District Contamination Impact Coordinator (DCIC) for this federally funded project.

Port Everglades Environmental Corporation

Environmental Assessment, Design, Installation, Operation and Maintenance of Free Product Recovery System, Tidal Studies, Exfiltration Tests, Environmental Liability Management

Location
Port Everglades
Broward County, Florida

Client
Port Everglades Environmental Corporation (PEECO)
Contact: Doug Hall, PEECO Technical Committee Chairman
303-626-8200

Project Team
Timothy L. Harman, P.E.
Liza Grudin, P.E.
Joe Lundquist, P.E.
Kaled Essraowi
Howard Miller
Jeremy Hess

Period of Performance
1999 to Present

Approximate Fees
$4,473,439

HCR Role
Prime

Handex Consulting & Remediation - SE (HCR) has been providing continuous and sole source environmental consulting, assessment, and remediation services to the Port Everglades Environmental Corporation (PEECO) since 1993. Port Everglades is a port terminal facility with active underground petroleum pipeline corridors, owned and operated by the Broward County Board of County Commissioners and the Port Everglades Department of Broward County while environmental issues associated with the common areas of the Port are coordinated by a consortium of oil companies incorporated as PEECO.

HCR Innovations and Client Benefits

- Innovative Management Approach – Multiparty coordination for site cleanup and cost share in advance of upcoming major construction.
- Innovative use of technology (pilot tests for environmental liability management).

Since established as a deep-water harbor in 1927, discharges of various petroleum constituents have resulted in documented liquid phase hydrocarbons (LPH) in the groundwater. Services provided include design, installation, operation and maintenance of free product recovery systems throughout the port common areas. In addition, HCR has conducted numerous pilot tests and site assessment activities for the monitoring and assessment of cost effective and practical solutions for environmental liability management. Environmental studies include tidal studies, exfiltration tests, environmental contamination assessments and free product efficacy assessments. In 1993, HCR subcontracted a Risk Assessment / Justification (RA/J) on behalf of PEECO for the Common Areas at Port Everglades. Field activities were completed in part by HCR personnel due to their familiarity with the lithology and logistics of the Port. The RA/J report submitted and approved under a Risk Assessment Approval Order (RAAO) in June 1995 led the way in risk-based approach to site closure in Florida.

Free product recovery has been conducted at the Common Areas to collect free product from the recovery wells without influencing or removing the surrounding groundwater. Four free product recovery systems (Pier 1, Berth 9; Pier 2, Berth 7; Slip 1; and Area 26) were installed in 1999 and began operation in 2000. The systems with a combined 40 recovery wells were operated until 2007 and decommissioned in 2012. Additionally, two active free product recovery systems began operation in 2008 at Pier 1, Berths 12 and 13. These recovery systems are currently in operation through funding under the FDEP Free Product Recovery Initiative. Based upon tank recovery information provided by PEECO, over 70,000 gallons of product has been recovered by the above referenced free product recovery systems.

HCR is currently working to evaluate environmental impacts on the proposed Port expansion projects outlined in the Port Everglades Master/Vision Plan Report. Port expansion projects such as the widening of Slip 1 are within known areas of LPH. Working with the Port Everglades Department of Broward County and FDEP, on behalf of PEECO, HCR has installed six Closed LPH Collection Systems utilizing Large Diameter Filter Scavengers to remove product in advance of the construction slated for 2015. Based on the success of the initial array, FDEP has authorized the installation of six additional Closed LPH Collection Systems in 2014. HCR has been contracted to evaluate petroleum impacts in advance of the Slip 2 Lengthening.

Spill Prevention, Control, and Countermeasure (SPCC) Plans
Palm Beach County, Florida

Location
Palm Beach County, Florida

Client
Palm Beach County Facilities Development and Operations
Contact: John Tierney
561-233-0252

Project Team
John Baeringer, P.G.
Timothy L. Harman, P.E.

Period of Performance
March – October 2010

Approximate Fees
$23,984.00

HCR Role
Prime

Handex Consulting & Remediation - SE (HCR) prepared 40 CFR Part 112 compliant Spill Prevention, Control, and Countermeasure (SPCC) Plans for 13 facilities owned by Palm Beach County Facilities Development & Operations (FD&O) Department. This SPCC rule encompasses the requirements of the November 13, 2009 rule amendments. Depending on the aboveground oil storage capacity and the historical discharge history, the facilities were qualified as a "Tier I", "Tier II", or "Tier III" facility.

HCR Innovations and Client Benefits

- Proactive environmental compliance management and best management practices.
- Contract and program management for comprehensive environmental compliance services

The Tier I facilities were allowed to complete and self-certify a plan "Template", the Tier II facilities were allowed the prepare a self-certified plan in lieu of a Professional Engineer (PE)-certified plan, while the Tier III facilities were required to prepare a PE-certified plan.

The purpose of the SPCC Plans was to describe measures implemented by FD&O to prevent oil discharges from occurring, and to prepare FD&O to respond in a safe, effective, and timely manner to mitigate the impacts of a discharge.

In addition to fulfilling requirements of 40 CFR Part 112, the SPCC Plans were used as a reference for oil storage information and testing records, as a tool to communicate practices on preventing and responding to discharges with employees, as a guide to facility inspections, and as a resource during emergency response.

In order to prepare the plans, HCR performed a site inspection and interviews with property occupants to obtain the necessary information required by subparts B and C of the rule.

Okahumpka Service Plaza Remedial Action Plan and Implementation
Florida's Turnpike Enterprise

Handex Consulting & Remediation - SE (HCR) performance continues to be demonstrated and confirmed through our long term and continuing contract renewals on our Florida's Turnpike Enterprise (FTE) Turnpike-Wide Hazardous Materials Response Services Contract since 2000.

HCR Innovations and Client Benefits

- Streamlined assessment to remedial implementation in a compressed timeframe.
- Conducted remedial system implementation while maintaining maintenance of traffic resulting in open operations during construction.

Location
Okahumpka, Lake County, Florida

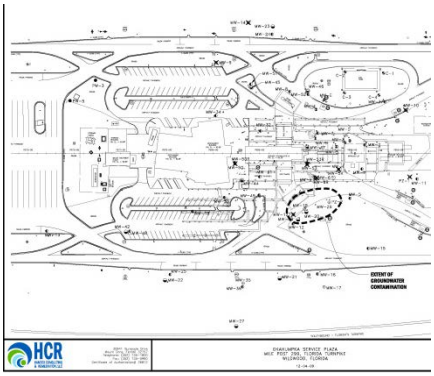
Client
Florida's Turnpike Enterprise
Contact: John Post
407-264-3409

Project Team
Christian Holmstrom, P.E.
Robert Sevret, Jr.
Joe Newton, CGC, PSSC

Period of Performance
2009-2010

Approximate Fees
$1,600,000.00

HCR Role
Prime



The Okahumpka Service Plaza was impacted with a large horizontal expanse of petroleum hydrocarbon contaminated groundwater and is part of the Florida Department of Environmental Protection (FDEP) Remedial Action Initiative (RAI), which requires that certain site cleanup milestones be achieved within specified timeframes.

The constraints and planning required that a sophisticated Maintenance of Traffic Plan (MOT) plan be implemented so that the remedial action construction could be completed safely for motorists and HCR employees. As a result of the large hydrocarbon plume, HCR engineers determined that it was prudent and cost effective to divide the site into three separate zones, with three smaller systems. The benefit of the HCR plan provided flexibility in the cleanup schedule allowing removal of a complete system upon meeting the cleanup standards or adding capacity to expedite the cleanup in other zones.

HCR prepared a Remedial Action Plan (RAP) under FDEP guidelines. The RAP and Remedial Construction included in-situ air sparging (AS) via installation of 157 AS wells, Soil Vapor Extraction (SVE) for the removal of volatile petroleum hydrocarbons via 120 SVE wells, three separate packaged remedial systems, and treatment of extracted soil vapors by vapor phase activated carbon.

Each of the three treatment systems was included in its own trailer and included one 50 hp Reitschle Shark air compressor, a heat exchanger, flow meters and 30 hp soil vapor extraction blowers and ancillary equipment. The off gas system included two 1,600 lb. carbon units per system.

HCR completed the DESIGN-BUILD project in 39 weeks. HCR provides ongoing routine maintenance on the system at scheduled intervals.

E. Blue Heron Blvd & SR-5 (US-1) Subsurface Groundwater Cut-off Wall Installation

Location
Intersection of E. Blue Heron Blvd. (SR-5) and US-1
Riviera Beach
Palm Beach County, Florida

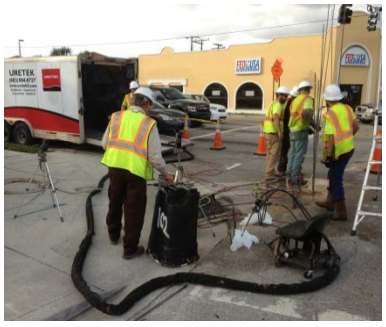
Client
Florida Department of Transportation, District IV
Contact: Vincent Fusconi, P.E.
DCIC
(954) 777-4286

Project Team
Timothy L. Harman, P.E.
Melissa Ericson
Kaled Essraowi
Scott Yelverton

Period of Performance
2012 to Present

Approximate Fee
$335,000

HCR Role
Prime



The project site is located at the intersection of East Blue Heron Blvd. (SR-708) and SR-5 (US-1) in Riviera Beach, Florida.

In July 2011, at the request of the Florida Department of Transportation (FDOT), Handex Consulting & Remediation-SE, LLC (HCR) conducted a Level II contamination assessment along SR-5 (US-1) as part of the SR-5 Drainage Improvement Project. The results of groundwater analysis indicated benzene, toluene, ethylbenzene, and xylene (BTEX) and polynuclear aromatic hydrocarbons (PAHs) present in groundwater under the area of the parking lot at the southwest corner of the intersection. Subsequent groundwater sampling along the right-of-way confirmed that the contaminant plume was confined to a 84-foot by 72-foot area, west of the project corridor (contamination zone). The water table was observed to be at approximately eight feet below land surface during the assessment.

HCR Innovations and Client Benefits

- HCR implemented an innovative application of an existing technology to prevent plume migration without impacting active utilities and businesses along US-1.
- Substantially reduced cost to FDOT compared to traditional and conventional methods.

HCR, in conjunction with the DCIC and the CEI for the project, proposed injecting a subsurface polyurethane grout cut-off wall along a portion of SR-5 (US-1), to prevent migration of the contaminant plume during anticipated high volume, long duration dewatering activities adjacent to the contamination zone.Dewatering was necessary to install a large diameter utility main along the centerline and 10 feet below the existing roadway.

In January 2013, HCR contracted URETEK Holdings, Inc. to perform the installation of approximately 200 linear feet of an in-situ grout wall utilizing their STAR486 rigid geotechnical polyurethane grout system. The system uses a hydro-insensitive two-part polymer that is injected in a highly controlled manner through ½-inch diameter steel injection tubing. After initially hydro-lancing (water jetting) to clear utilities to five feet below land surface (bls) at each location, the injection rods were installed at five discrete elevations (approximately 8, 11, 14, 17, and 20 feet bls) in a 3-foot horizontal and vertical grid pattern. The STAR486 material was then injected through each rod, which expanded to at least 15 times its initial liquid volume, forming a sphere at each discrete injection interval that bonds to the previously injected material adjacent to it. By repeating the injections in the prescribed grid pattern, the subsurface cut-off wall was constructed along the right-of-way adjacent to the contamination zone. The injection rods were abandoned in-place and cut off below grade.

The installation area ran parallel to the right, southbound travel lane of SR-5 (US-1) and extended north, perpendicular through the eastbound and westbound travel lanes of E. Blue Heron Blvd. Due to the numerous active underground utilities that were present within the intersection, extreme caution was exercised while injecting material adjacent to the utilities, which included lengthening the injection point spacing and increasing the amount of injected material to seal the gap at distance.

URETEK performed 290 injections at 58 points along approximately 200 linear feet of SR-5 (US-1). An average of 33 lbs. of material was injected at each point and ranged from 20 lbs to 118 lbs.

The photo (left) illustrates the injection process performed by URETEK. The personnel on the right are inserting the ½-inch diameter steel tubing by hand after initially hydro-lancing to clear utilities at each location. They would then complete the installation process with the use of a pneumatic impact driver to the proposed depths. The apparatus on the left is injecting the rigid geotechnical polyurethane grout through the previously installed steel tubing. The two tripods in the background hold laser-level sensors to detect any surface uplift that would be caused by the injection process.

The FDOT and project team won two Prudential Davis Productivity Awards for the concept and successful implementation (Innovative US-1 Contaminated Groundwater Barrier Team).

Site Assessments at Multiple Water and Sewer Pump Stations
Miami-Dade Water and Sewer Department

Location
Miami-Dade County, Florida

Client
Miami-Dade Water and Sewer Department
Contact: Gustavo Leal
305-876-0239

Project Team
John Baeringer, P.G.
Kevin Koenig, P.G.
Brian Mitchell
Clint Smith

Period of Performance
March 2011 to Present

Approximate Fees
$110,524.39

HCR Role
Prime

Handex Consulting & Remediation - SE (HCR) has conducted more than 150 site assessments under the Low Score Site Initiative (LSSI) Program which was initiated by the Florida Department of Environmental Protection (FDEP) in 2011.

HCR Innovations and Client Benefits

- Participation in the LSSI program, in conjunction with HCR's efficient and accurate site assessment, results in significant cost savings.
- HCR has helped owners achieve closure for 25% of our projects.

The Miami-Dade County Water and Sewer Department decided to participate in the LSSI program with the following four sites: Pump Station #477, Pump Station #659, Pump Station #660, and Pump Station #692. For Pump Station #477, HCR performed soil and groundwater assessment activities in February 2012 and did not detect impacts at concentrations exceeding FDEP target levels. Based on these assessment results, HCR properly abandoned two monitoring wells not used for compliance monitoring. A Site Rehabilitation Completion Order was issued for the November 23, 1988 discharge on August 27, 2012. The LSSI assessments for the remaining three sites are on-going. Participation in the LSSI program, in conjunction with HCR's efficient and accurate site assessment, has resulted in significant cost savings to the Water & Sewer Department by using state funds to close out the open discharge at Pump Station #477.

Scope of work included historical records reviews, interviews with site owners, soil boring and monitoring well installations, soil and groundwater sampling, laboratory analyses, well abandonment, and report preparation. Under LSSI, HCR has helped owners achieve closure for 25% of the more than 50 projects that have been completed. The LSSI expedites assessment and potential closure of sites that are less likely (based on priority ranking score) to impact human health or the environment. Contaminated sites that are eligible for state funded cleanup are given a priority ranking score from 0 to 100. Currently the state is cleaning up sites ranked 46 and higher. The LSSI Program allows for owners of sites with a score of 29 or less to be evaluated for various closure options depending on the conditions of the discharge. The LSSI is strictly voluntary and when applied to sites eligible for state funding, has a limited funding cap of $30,000 per site. The LSSI program benefits site owners in a number of ways. A site may achieve closure much earlier than it would have otherwise due to its low score. Even if a site does not currently qualify for closure, owners can gather valuable information regarding the condition of their site at no cost. The co-payment under the Petroleum Cleanup Participation Program (PCPP) is waived for participation under the LSSI and the deductibles under the Petroleum Liability and Insurance Restoration Program (PLIRP) and Abandoned Tank Restoration Program (ATRP) do not apply to expenditures under the LSSI.

Florida's Turnpike Enterprise
Comprehensive Contamination, Assessment, and Remediation Services

Location
Various
Miami-Dade, Broward, and Palm Beach Counties

Client
Florida's Turnpike Enterprise
Contact: John Post, Program Manager, Emergency Management Office
(407) 264-3409

Project Team
Timothy L. Harman, P.E.
Kevin Koenig, P.G.
Robert Severt, Jr.
Joseph Newton, CGC, PSSC
Christian Holmstrom, P.E.
Joe Lundquist, P.E.
Jeremy Hess

Period of Performance
2000 to Present

Approximate Fee
$10,000,000

HCR Role
Prime

Handex Consulting and Remediation (HCR) currently serves as the Prime Contractor for the Turnpike-Wide Hazardous Materials Response for Contamination, Assessment, and Remediation. Services performed under this contract include the following:

HCR Innovations and Client Benefits

- Innovative Management Approach to comprehensive environmental services.

Portfolio Management: HCR works directly for the Florida's Turnpike Enterprise (FTE) DCIC managing all existing environmental projects. HCR manages approximately 50 projects per year, in addition to the eight service plazas. HCR works with the FDOT on budgeted estimated liabilities and forecast models along with procuring state funding for future projects. HCR provides professional and expert witness support for FTE and FDOT.

Impact Construction: HCR's environmental review of proposed FDOT projects identifies potential hazards, proposes mitigation plans, timing, and estimated budget liability.

Emergency Response: HCR performs 24-hour response operations pertaining to hazardous releases on pervious surfaces along the 560 miles of roadway owned and operated by FTE. Activities include: initial response, interagency coordination (FHP, FDOT, RISC Contractors, and FDEP), State notifications, assessment, maintenance of traffic (MOT), remediation, restoration, and reporting in accordance with Chapter 62-770, Florida Administrative Code (FAC).

Local Program Coordination: Ongoing mitigation related to emergency response cleanups referred from FDEP to the local programs.

Storage Tank Services: HCR is contracted to remove and close underground storage tanks (USTs) utilized for emergency generators at the eight turnpike service plazas. The contract requires coordination with FTE demolition and utility contractors to allow access.

Drilling Services: HRS is responsible for the permitting, installation, and abandonment of monitoring and remediation wells, as required for FTE projects. HCR owns and operates direct push units and drill rigs and has several licensed water well contractors on staff.

Remedial System Installation/Operation & Maintenance (O&M): HCR has installed underground remedial systems at four of the service plazas and performed O&M for the past 10 years. The Fort Drum and Okahumpka remedial systems were two of the largest installed in Florida's history.

***Asbestos/Lead Assessment & Abatement*:** HCR manages the assessment and abatement of structures (bridges, piping, buildings) with known asbestos containing material (ACM) and/or lead based paint (LBP). HCR has performed over 100 bridge surveys across the State of Florida. Additionally, HCR has conducted ACM removal at several bridges and the removal of approximately six miles of 24-inch diameter steel abandoned gas lines wrapped in ACM insulation along the Turnpike shoulder in Broward County.

Dewatering Treatment Services: HCR is contracted to permit, treat, and discharge effluent streams created by the required dewatering of contaminated groundwater during the installation of USTs and canopy footers for the eight turnpike service plaza upgrades. HCR owns and operates a trailer mounted air diffuser system with an operating capacity of 500 gallons per minute.

Hialeah Rail Yard Emergency Response

Sampling and Analytical Testing, Hazardous Materials Handling, and Environmental Assessment, and Environmental Training

Location
Hialeah Rail Yard
Miami-Dade County, Florida

Client
Florida Department of Transportation, District IV
Contact: Vincent Fusconi, P.E.
DCIC
(954) 777-4286

Project Team
Tim Harman, P.E.
Melissa Ericson
Kaled Essraowi, CMA, CMR
Mark Hinkle

Period of Performance
May 2011 to Present

Approximate Fee
$179,952

HCR Role
Prime

The Hialeah Rail Yard, located at the south end of the 79 mile long South Florida Rail Corridor (SFRC) in Miami, is currently owned by the FDOT and managed by the Office of Modal Development. The rail yard was originally constructed by a CSX predecessor railroad in 1956 and is currently occupied by three tenants: SFRTA, Amtrack and CSX, in addition to their respective contractors.

HCR Innovations and Client Benefits

- HCR's rapid response helped prevent the discharge of potentially hazardous wastes to the waste water treatment plant.
- Attend monthly tenant compliance inspection walkthroughs and assisted with resolving discrepancies and advised on best management practices.
- HCR's in-house personnel serve as environmental liaison between the Planning & Environmental Management Department and Office of Modal Development for environmental compliance coordination.
- Assisted with the implementation of a tenant education program to assist with environmental compliance.

In October 2008, at the request of FDOT, Handex Consulting and Remediation (HCR) conducted an environmental site survey and a review of files for the Hialeah Rail Yard in Miami-Dade County. Site activities consisted of a site reconnaissance and inspection of the building exteriors, interviews with site personnel, the identification of potentially impacted areas, and recommendations for improvement. In order to identify areas of concern, HCR also reviewed site plans, historical documents, yard operations, chemical inventories, compliance documents, aerial photographs, and federal and state environmental databases. HCR also reviewed Spill Prevention Control and Countermeasures (SPCC) plans for the main fueling areas within the fleet maintenance shop and provided suggestions for enhancement.

During the site survey, HCR identified several potential environmental issues. Concerns regarding the fueling operations and waste storage were brought to the FDOT's attention and addressed with their tenants. The review of the SPCC plans also indicated that portions of the track where refueling occurs also requires spill prevention mechanisms. Based on the findings of the file review and site survey, HCR prepared a Site Review and Visual Observations Report and recommended requirements for the FDOT to include in lease agreements with tenants at the rail yard.

In May 2011, HCR responded on behalf of FDOT District Four to a reported release of chlorinated solvents in the waste liquid/sludge in the Tri-Rail collection system and in the oil/water separator located south of the diesel shop.

The initial response consisted of the complete system shut down and collection of effluent samples to ensure that the impacted oil/water sample effluent was not being discharged to the onsite wastewater treatment plant. Based on the analytical results, HCR coordinated and supervised the cleaning of the drains, oil/water separator, pump station, and holding tank for the SFRTA facility in order to prevent releases to the wastewater treatment system. The recovered wastewater was stored in frac tanks, and the recovered sludge was stored on-site in 55-gallon drums. After cleaning, system components were systematically and sequentially tested and subsequently brought back online when verified cleaned.

Due to the housekeeping issues at the diesel shop that may have resulted in the discharge, the FDOT authorized HCR to provide environmental oversight at the rail yard. In order to keep the FDOT informed of activities with potential environmental impacts, HCR routinely conducted site reconnaissance of the property and provided the FDOT with recommendations concerning improvements in operational procedures and housekeeping. Additionally, HCR assisted the FDOT in developing protocols for use by the tenants of the rail yard for spill response and prevention.

Asbestos, Lead, and Mold Surveys and Abatement Multiple Structures and Facilities in FDOT District Four

Location
Various Structures District-Wide

Client
Florida Department of Transportation, District Four
Contact: Vincent Fusconi, P.E.
DCIC
(954) 777-4286

Project Team
Timothy L. Harman, P.E.
Melissa Ericson
Kaled Essraowi, CMA, CMR

Period of Performance
March 2007 to Present

Approximate Fee
$1,400,000

HCR Role
Prime

HCR Innovations and Client Benefits

- Clear and concise reporting of survey results, allowed the FDOT to evaluate potential impacts to construction and appropriately plan abatement activities
- Mold restoration at the Broward Operations building using innovative decontamination technology and equipment allowed the timely use of needed office space with minimum impact to operations

Handex Consulting and Remediation (HCR), along with its various subcontractors conducted Asbestos Containing Materials (ACM) abatement and disposal at over 80 bridges in FDOT District Four as part of the existing Contamination Assessment and Remediation contract. During the surveys, representative samples of suspect materials were obtained and analyzed for lead and/or ACMs. A report was submitted detailing the findings of the survey, which allowed the FDOT to evaluate potential impacts associated with planned renovation and construction/improvement projects.

In addition to the bridge survey and abatements, HCR also conducted mold abatement and restoration activities at the Broward Operations Building. HCR began the assessment by conducting a thorough visual inspection and infrared thermography scan of areas of observed and potential moisture intrusion. Once the moisture impacted drywall was removed and properly disposed, antimicrobial solutions (Innovative Decon Solutions – MDF 500, a proprietary biodegradable mixture of cationic detergents, hydrogen peroxide, and fatty alcohols) were used via fogging and electrostatic spraying apparatus to sterilize the remaining surfaces. Post remediation microbiological samples were collected to determine the species present, and number of fungi existing within the building. Additional material was removed as required, and the drywall was replaced. Upon completion, a mold remediation activity report was prepared documenting the activities performed.

Additionally, HCR and their subcontractor, DPC General Contractors, Inc. (DPC), removed and disposed of lead-based paint containing material from the Deerfield Beach Tri-Rail Station and railroad museum (historic preservation of FDOT facility). HCR's subcontractor, DPC, removed the loose flaking lead based paint, stabilized the remaining paint, and applied primer. Prior to lead abatement activities, each area of the building structure was contained for the prevention of public exposure to lead-based paint chips or particles pursuant to the OSHA Industry Lead Standard. HCR ensured that all employees utilized proper personnel protective equipment (PPE) in accordance with OSHA standards.

The interior and exterior removal and encapsulation process was achieved by first removing surface dust and debris with a 5% solution of trisodium phosphate (TSP), followed by the scraping of peeling/flaking lead based paint on walls or other surfaces. Once abatement was complete, an encapsulation coating was applied to the substrate in a continuous system.

After the lead based paint abatement was completed, the entire area was HEPA-vacuumed, starting with the rooms farther from the entrance to avoid retracking dust through the area(s) previously cleaned. In each room, vacuuming began with the ceilings and proceeded down the walls, making sure that every surface was treated, including doors and door trim, windows, windowsills, walls, and baseboards.

Former Pharmaceutical Lab Decommissioning

Location
Broward County, Florida

Client
Safety-Kleen
Contact: Cindy Bruce
(386) 668-2008

Project Team
Timothy L. Harman, P.E.
Maureen Davis

Period of Performance
2010

Approximate Fee
$116,947

HCR Role
Prime

Handex Consulting & Remediation-Southeast, LLC (HCR) performed comprehensive environmental engineering consulting. assessment and decontamination services at a former pharmaceutical research, development, and manufacturing facility in south Florida. Services included an asbestos survey of approximately 40,000 sf of office, laboratory, R&D, manufacturing (including isolation chambers), and storage space; providing research and development of a QA/QC Plan for facility decontamination and clearance testing; developing sampling analytical standards for key target and experimental drug compounds; oversight and documentation of equipment decontamination processes; provided interior facility demolition plan and permit support; oversight and documentation of interior facility decontamination processes; and providing post demolition sampling and reporting for the target compounds, including preparation of a comprehensive facility decomissioning report. Contaminants of concern included cytotoxic compounds used to develop experimental cancer treatment drugs. This required special handling and personal protective equipment (PPE).

HCR Innovations and Client Benefits

- HCR developed a site specific sampling and clearance testing protocol after extensive research and communication involved federal, state, and local officials.
- HCR utilized a decontamination formula developed by Sandia National Laboratories for use by the military as a universal decontaminant. Its unique properties and characteristics made it ideal for this project.

Pre-assement and Sampling

Each piece of lab equipment (located in isolation chambers and R&D portions of the facility) was sampled using specialized low organic carbon content swabs to establish baseline contaminant levels. Due to risk of employee exposure, samples were collected using Level B PPE including chemical resistant clothing, self contained breathing apparatus (SCBA), and chemical resistant gloves. Prior to collecting swab samples, the equipment and areas of concern were scanned with a handheld ultraviolet (UV) light to determine if any compound residue was visibly present. If compound residues were visually detected, the area of concern was swab sampled as the suspected worst case scenario. The swab samples were analyzed by a certified laboratory for Total Organic Carbon (TOC) content.

Decontamination Process

HCR subcontracted Innovative Decon Solutions (IDS) to conduct decontamination activities at the facility. Due to the nature of compounds used at the pharmaceutical lab, HCR recommended decontaminating the entire facility in addition to the equipment. Since there was no longer an operating heating, ventilation and air conditioning (HVAC) system at the facility, portable equipment was used for treating the duct work. IDS utilized an aerosol application method (electrostatic or ULV aerolization) to generate an ultra fine mist (<10 micron of charged particles) of the decontamination formula, MDF-500 throughout the areas of concern. The decon formula is able to penetrate biological and chemical compounds and residues to reduce their toxicity.

Clearance Testing

HCR conducted clearance testing subsequent to decontamination activities. Testing comprised of swab samples collected in the vicinity of the baseline swab sample locations for analysis of TOC prior to demolition and for specific compounds of concern (through standard development based on retrieved product samples) for post interior demolition structure clearance. The clearance sampling locations were cross referenced from photographs taken during the baseline sampling event and from facility plans. Sampling results indicated the decontamination of the equipment and the facility was successful.

In-House Technical Support
Roadway Plan and Project Review and NEPA Support

Location
Various Project Sites

Client
Florida Department of Transportation, District IV
Contact: Vincent Fusconi, P.E.
DCIC
(954) 777-4286

Project Team
Timothy Harman, P.E.
Kaled Essraowi
Melissa Ericson
Scott Yelverton
Andrea Pula

Period of Performance
March 2006 to Present

Approximate Fee
$1,460,160

HCR Role
In-House Consultant

A Project Scientist from Handex Consulting & Remediation (HCR) acts as an Environmental Liaison for FDOT District Four and support for the District Contamination Impact Coordinator (DCIC). As an in-house Environmental Liaison for the Planning and Environmental Management (PL&EM) Department projects, such as roadway improvement, bridge removal or rehabilitation, Design Build, and right-of-way dedications/ purchases are assigned and managed. In the processes of managing a project, HCR utilizes the Environmental Impact Review (EIR) handbook that was developed by FDOT District Four to aid in planning projects utilizing the FDOT's Efficient Transportation Decision Making (ETDM) and in accordance with the FDOT Project Development & Environment (PD&E) Manual. The handbook also provides guidance on the internal operation and procedures developed by the FDOT District Four PL&EM Office.

HCR Innovations and Client Benefits

- HCR's in-house support and project expertise allows the DCIC to complete projects efficiently and cost effectively.
- Assists with project management and administration.
- Assists with new SOPs, process, development and improvement of guidelines, and database development.

It is the responsibility of the Environmental Liaison to ensure that all projects comply with the National Environmental Policy Act (NEPA) guidelines. FDOT District Four evaluates all design projects as if they were federally funded in order to be in compliance with NEPA should the funding source ever be changed. This includes Local Agency Program (LAP) projects in which FDOT works with local towns, cities, and counties.

The ETDM Environmental Screening Tool is utilized to identify environmental features within the project area. These features include wildlife, flora and fauna, socio-cultural, wetland, historic/archaeological structures, and contamination issues. If warranted, letters are prepared to federal, State and/or local agencies for concurrence and/or required permits. Prior to the initial engineering plans, an environmental coordination meeting is conducted with the Project Manger to discuss any environmental impacts to the project and ensure that all NEPA compliance concerns are met. Considerations for redesign can be deliberated for any impact avoidance.

It is the responsibility of the assigned project Environmental Liaison to prepare comments in Electronic Review Comments (ERC) for all design phases including Initial Plans Review (30% plans), Constructability (60% plans), Biddability (90% plans), and Final Plans (100% plans). As the Environmental Liaison, HCR tracks all projects utilizing Project Suite. Project Suite is employed regularly for all project management requirements. Project Suite provides the scope of the project, any changes, contacts, roadway limits, GIS information, funding and scheduling. All documents such as all NEPA Compliance, ERC comments, and Status information is required to be uploaded into the Environmental Tracking System (ETS) Section in Project Suite.

Besides managing several assigned projects, the in-house liaison provides additional support to the DCIC including technical review and recommendations for environmental documents such as right-of-way dedication/purchases and General Permits for dewatering on FDOT right-of-ways. HCR also assists in the review of constructability plans and the determination of Level II testing. HCR works with the DCIC in the development of dewatering specifications and health and safety issues in contaminated areas with the roadway contractor allowing construction to proceed in a timely and cost efficient manner.

Environmental Compliance Audits
Multiple Tenants within Miami-Dade International Airport

Location
Miami, Miami-Dade County, Florida

Client
Miami-Dade County Equitable Distribution Program (EDP)
Contact: Manuel F. Bazzani
605-869-3615

Project Team
John Baeringer, P.G.
Kevin Koenig, P.G.
Scott Yelverton

Period of Performance
June to December 2013

Approximate Fees
$35,600.00

HCR Role
Prime

Handex Consulting & Remediation - SE (HCR) performed single facility environmental regulatory compliance audits for the following tenants of the Miami-Dade Aviation Department: Commercial Jet, Inc., Swissport Cargo Services, AAR Aircraft Services, American Airlines, Cargo Force, Inc., Evergreen Aviation Ground Logistics, Servisair, LLC, and Wood Group Turbopower, LLC.

HCR Innovations and Client Benefits

- Proactive environmental compliance management and best management practices.
- Contract and program management for comprehensive environmental engineering services.

The audits were completed by HCR under the Miami-Dade County Equitable Distribution Program (EDP), Resolution R-631-01. The objective of these audits was to identify the compliance status of the subject facilities with respect to selected regulatory requirements set forth in applicable federal, state, and county environmental regulations, to recommend suggested corrective actions for any identified deficiencies, and to assign a priority score to each observed point of non-compliance in accordance with the potential risks and liabilities posed by the compliance deficiency. In certain instances not entailing regulatory compliance, the auditors may have recommended Best Management Practices (BMPs) to improve overall environmental stewardship and to lessen risks to the environment or facility personnel. The achievement of these objectives was intended to foster MDAD's broader goal of bringing all MIA facilities into environmental regulatory compliance, to reduce waste generation, and to enhance pollution prevention.

The scope of these audits included: a detailed visual inspection of the tenant leasehold property, structures, and related appurtenances; a review of documents made available by the facility; interviews with knowledgeable site representatives; the completion of a detailed compliance audit questionnaire; and photographic documentation of selected site conditions. The audits also examined the environmental management systems (EMS) in place at each facility, in order to address the facility's historical and future ability to comply with applicable requirements. The review of tenant's EMS was completed with reference to the ISO 14001 EMS standards.

Lead Removal
Hillsborough County Firing Range

Handex Consulting & Remediation - SE (HCR) has been contracted by the Hillsborough County Sherriff's Department to remediate safety and environmental hazards at the gun range training center.

HCR Innovations and Client Benefits

- Recovery and recycle of spent bullets.
- Lead reduction at facilities.

Location
Lithia, Hillsborough County, Florida

Client
Hillsborough County Sherriff's Office Training Center
Contact: Sgt. Roland Corrales
813-247-0769

Project Team
Christian Holmstrom, P.E.
Robert Sevret, Jr.
Joseph Newton, CGC, PSSC
Jose Colon

Period of Performance
2014

Approximate Fees
$40,000.00

HCR Role
Prime

THE CHALLENGE

The Hillsborough County Sherriff's Department maintains a gun range and training center for Hillsborough County, the surrounding Counties, and Local and Federal Law Enforcements bureaus in the Tampa area. The Hillsborough Range is under contract with over 20 separate agencies utilizing eight (8) separate firing zones. Over the course of several years, the protective berms backing the ranges became overloaded with lead ammunitions, posing safety and environmental hazards.

THE SOLUTION

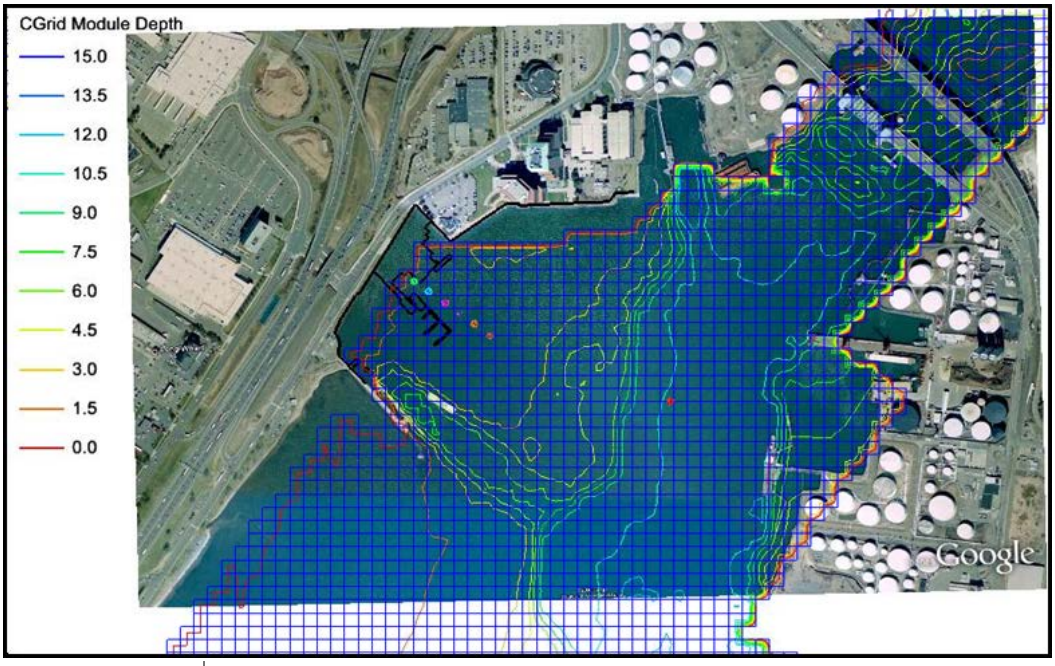
HCR utilize its in-house construction crew to screen the protective berms at firing ranges #2, #4, #5, #6, #7, and #8. Soil along the entire length of each berm is removed in order to collect the maximum volume of spent bullets and casings. Approximately 2 feet of soil into the face of the berm behind the target wall was removed. Surface soil approximately three (3) at the base of the berm was also removed to a depth of roughly 6-inchs below grade to remove any residual material. The screening unit was set up with ¼-inch mesh screen in order to remove bullets, casing, and any other debris. Soil was then loaded into the screening machine to separate the material. Collected metal was placed in 55-gallon drums and processed at a metal recycling center. Soil removed at each protection berm was returned to restore the berms to their original configuration

THE RESULT

Approximately 40,000 pounds of spent bullets were removed and recycled. Based on the successful results of the lead reclamation completed by HCR, the Hillsborough County Sherriff's Department is planning on starting an annual removal project to preserve the protective berms safety and implement a new management practice.

REPRESENTATIVE PROJECTS

Canal Dock and Long Wharf Redevelopment
Connecticut Department of Transportation, New Haven, CT



Client:

Langan Engineering and Environmental Services

Contact:

Phil Ogden
Senior Vice President
Gencom Gorp
(305) 442-9808

Cost:

$29,500,000

Completion:

January 2011

Key Personnel:

George A. Tibedo, PE
Michael A. Giovannozzi, PE

Located between the Quinnipiac River to the north and the Long Wharf Park waterfront, the marina site has an exclusive location at the center of the new Canal Dock Park and Long Wharf Park Redevelopment. The site provides expansive views of the Harbor with high visibility from the water, Long Wharf Pier, Long Wharf Drive, and the adjacent shore of the Harbor. A historic scheme draws from the history of the site and harbor as well as the historic Adee Boathouse. The project incorporated intense research of the site's context, similar facilities in other cities, understanding of the physical constraints and ecological resources of the site, and the input of the community stakeholders who will use the completed facility. The Canal Dock Park Marina facilities include the transient Canal Dock Marina for day use patrons, and ADA compliant Kayak Dock for persons with limited mobility and ADA compliant Rowing Docks for the surrounding area's rowing population. The developed designs reflect both the needs and aspirations for the site.

The Client's objective was to establish a signature destination for public access to New Haven's waterfront to provide a recreational and cultural resource for the city and a critical part of the revitalization of Long Wharf and the reconnection of this waterfront to city's core. This project builds on and ties together many other city efforts in the area including improvements to Long Wharf Pier, the completion of the Farmington canal Greenway, redevelopment of the Long Wharf Area, and the reconstruction of I-95 and the Q Bridge.

REPRESENTATIVE PROJECTS

Our team was commissioned to perform a full wind wave hydrodynamic model of both the Long Island Sound and New Haven Harbor, and to undertake a full feasibility study for the proposed marina and waterfront development at Canal Dock Park and Long Wharf. Our role also included development of conceptual and final designs for the marina facilities, determination of flood loads for all waterfront structures including the 50,000 SF concrete platform and 30,000 SF Adee Boathouse, and bulkhead and soft shoreline protection systems. The key element of our team's involvement included:

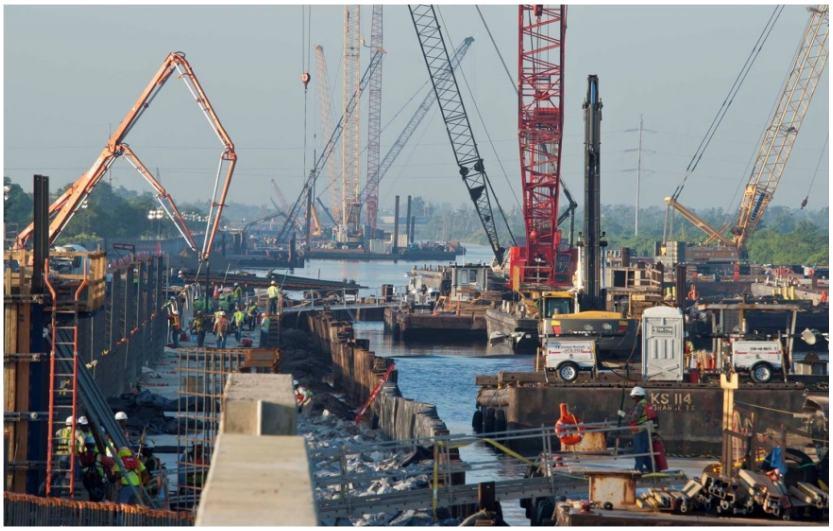
- Wind wave hydrodynamic model and assessment
- Marina feasibility and viability study
- Design of the marina dock facilities including the Canal Dock Marina transient docks, ADA compliant kayak dock, and ADA compliant sliding-seat and fixed-seat rowing docks
- Design of floating wave attenuators
- Contribution to the comprehensive master plan
- Management of the coastal flood hazard load determination process
- Input into the wider project scheme including fixed platform, boathouse, and shore protection designs

A wind wave hydrodynamic study was performed to facilitate the design of marine components for the multi-use waterfront project. Environmental parameters considered including selection of design wind speeds, wind direction, extreme water levels, and tidal currents. The analysis used a spectral wave model developed by the USACE to determine the design waves at the site and an advanced hydrodynamic model to determine water currents. The USACE guidance on sea-level rise was used in conjunction with historic water level data for a nearby tide station to determine a 100-year water level.

Concept alternatives of the floating dock facilities were considered in terms of form configuration, orientation, design, and anchorage to explore a full range of design options. The 26-slip marina and the rowing dock facility were optimized to allow the maximum number of boats to be launched simultaneously, to provide protection against undesirable wave action from the harbor, and to provide adequate maneuvering space on the dock, the kayak dock ramp, access gangway, and while navigating in the water. The rowing dock was designed for launching and retrieving rowing shells including a wide access gangway capable of allowing two teams carrying shells simultaneously on the gangway. All docks are concrete floating systems designed for a 3.5-foot wave height. The transient dock facility has dry pipe fire protection system, life-saving equipment in the form of life ring holders and lift rings, lighting fixtures, convenience potable water and electric service, and signage. The Rowing Dock facility was designed using a match-cast concrete system by Bellingham Marine to facilitate a very wide surface free from anchorage piles. Anchorage for the Rowing Docks is provided using an elastomeric mooring and seabed anchor system.

REPRESENTATIVE PROJECTS

Fronting Protection for Jefferson Parish Pumping Stations
USACE New Orleans District, Louisiana



Client:

US Army Corps of Engineers
New Orleans District
PO Box 60267
New Orleans, LA 70160

Contact:

Walter Baumy
Engineering Division Chief
(504) 862-2656

Cost:

$80,000,000

Completion:

September 2006 (design)

Key Personnel:

George A. Tibedo, PE

The US Army Corps of Engineers (USACE) established Task Force Guardian immediately after Hurricane Katrina hit the Louisiana and Mississippi coasts in August 2005. Task Force Guardian's main mission was to repair and restore the Hurricane and Storm Damage Risk Reduction System (HSDRRS) to pre-Katrina conditions. The system is comprised of numerous features including levees, flood walls, flood gates, surge barriers, and pump stations.

The overall goal of this contract was to evaluate and apply new, enhanced design criteria and methodologies to create higher and stronger hurricane floodwater fronting protection for pumping stations in Jefferson Parish, LA. As part of the consultant team selected by the New Orleans District to provide engineering services for the contract, our team prepared a design report, structural analysis, and construction plans and specifications for T-wall monolith floodwall structures and foundation systems to protect several of the pumping stations including the Bayou Segnette Old and New, Westwego 1 and 2, Westminster, Ames, and Mt. Kennedy.

The new fronting protection included the design of new concrete T-wall structures uniquely situated at each site to provide a flood barrier between the pump station outfall pipes and the high-water side of the site. In most cases, the work necessitated the extension of existing discharge pipes further away from the pump station and through the new fronting walls.

The USACE's preferred wall system for this project was the concrete T-wall, a type of cantilevered retaining wall system. The walls were conceived to be deep pile-supported and included a sheet pile cut-off wall below the foundation cap to negate under-flowage below structures. Fronting walls included the necessary road and access gates demanded by each site and tie in at the existing levees.

This project is an integral component of the HSDRRS, for which our team received two Certificates of Appreciation.

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REPRESENTATIVE PROJECTS

Mulberry Cove Marina Expansion
Jacksonville Naval Air Station, Jacksonville, Florida

Client:

NAS Jacksonville
1072 Ranger Street S
Jacksonville, FL 32212

Contact:

Dave Munnell
(901) 874-6667

Cost:

$3,900,000

Completion:

2013

Key Personnel:

George A. Tibedo, PE
Michael A. Giovannozzi, PE

Naval Air Station Jacksonville is one of the Navy's primary facilities for antisubmarine warfare readiness. The installation is a multi-mission base and is the third largest naval installation in the United States, boasting more than 23,000 civilian and active-duty personnel. These personnel have come to rely on the Mulberry Cove Marina for recreation and water access to the area's surrounding attractions. However, Hurricanes Jeanne and Frances in 2004 caused extensive damage to the facility and it was no longer considered viable. As part of the Installation's Master Plan vision, our design performed a Project Validation Assessment (PVA) to assess the best replacement plan from the standpoint of consumer demand, market competition, cost, and financial viability.

The primary emphasis of the assessment was to determine the size and layout of the new marina and determine its expected profitability and return on investment. The PVA team evaluated the proposed site, potential alternative sites, and the required size and scope of the facility as it relates to potential profits. Cost estimates for the proposed improvements and the facility's future financial performance were prepared. The assessment included an investigation of the existing conditions at the facility including marina docks, perimeter basin protection, jet-ski and fishing boat rental docks, harbormaster and retail buildings, dry boat storage, boatyard repair center, fueling facility, trailered parking, boat ramps, swimming beach, and recreational outdoor green spaces. A wind-wave and hydrodynamic analysis was performed to determine the susceptibility of the marina site to tropical and hurricane force conditions and an appropriate floating wave attenuation system was selected. Marine and upland surveys of the project site were also performed.

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REPRESENTATIVE PROJECTS

Based on the PVA assessment and recommendations, our team prepared full design/bid documents for bidding purposes for the marina's final design and construction, which were completed in early 2013.

The project replaced the entire existing marina facility with new concrete floating docks and included state-of-the-art floating wave attenuator perimeter protection systems. The new marina facility berths 96 craft and sailing vessels. Each boat slip is served by domestic water and electric services. Shore-mounted facilities include a sewage pump-out station in addition to the existing fueling station and dispensing system was modified as part of this redevelopment.

HCR's GOAL

To Develop a Strategic Partnership with The City of Key West to:

Preserve and protect the island; and

Provide Customer-focused and Customer-driven services that maintain the harmony and diversity of the people and the environment.

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