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http://www.fpm-group.com/htmlpages/FPMGSA.html
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GSA Contract Information
Description of Services Offered
GSA Project Experience
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Service Contract Act
CONTRACT INFORMATION

Schedule Title: Environmental Services
Contract #: GS00F104CA
Contract Period: April 13, 2015 to April 12, 2020

Contractor DUNS Number: 15-481-5674
Contractor CAGE Number: 0GJJ3

Contract Administration:
Dr. Kevin J. Phillips, P.E.
FPM Group, Ltd.
909 Marconi Avenue
Ronkonkoma, NY 11779
Telephone: 631-737-6200
Facsimile: 631-737-2410
E-Mail: K.Phillips@FPM-Group.com

Business Size: Small

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<th>SIN</th>
<th>Recovery SIN</th>
<th>Description</th>
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<td>Environmental Consulting Services</td>
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<td>899-7</td>
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<td>899-8</td>
<td>899-8RC</td>
<td>Remediation and Reclamation Services</td>
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</table>

Lowest Price Model Number and Lowest Unit Price: Not applicable

Maximum Order: $1,000,000 (higher numbers can be negotiated)

Minimum Order: $100

Geographic Coverage: Nationwide

Points of Production: FPM Group has 5 nationwide offices as follows: Ronkonkoma NY, Rome NY, San Antonio TX, Lancaster CA, and Myrtle Beach, SC

Prices Shown in Catalog: Net Prices

Quantity Discounts: Not applicable
Prompt Payment Terms: Net 30 Days

Government Credit Card: Government Credit Card is accepted below the micro purchase threshold

Foreign Items: Not applicable

Time of Delivery: To be negotiated with the customer per Task Order

F.O. B. Point(s): To be negotiated with the customer per Task Order

Ordering Address and Payment Address:
Dr. Kevin J. Phillips, P.E.
FPM Group Ltd.
909 Marconi Avenue
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E-Mail: k.phillips@fpm-group.com

Warranty Provision: Not applicable

Export Packing Charges: Not applicable

Terms and Conditions of Government Purchase Card: Government credit card is accepted

Terms and Conditions of Rental, Maintenance, and Repair: Not applicable

Terms and Conditions of Installation: Not applicable

Terms and Conditions of Repair Parts and other Services: Not applicable

List of Service and Distribution Points: Not applicable

List of Participating Dealers: Not applicable

Preventative Maintenance: Not applicable

Environmental Attributes: Not applicable

Data Universal Number System (DUNS) Number: 15-481-5674

Central Contractor Registration: FPM Group is registered in the Central Contractor Registration database
DESCRIPTION OF SERVICES OFFERED

SIN 899-1 Environmental Consulting Services

Expert planning helps you to comply with the appropriate regulations, address public concerns, and anticipate long-range problems. FPM Group’s planners, engineers, biologists, ecologists, and environmental scientists have the expertise and experience required to perform environmental impact analysis and other related planning surveys and studies.

Such services include:

Environmental Impact Statements (EISs) and Environmental Assessments (EAs) under the National Environmental Policy Act (NEPA)
- Preparation of Environmental Impact Statements (EISs) and Environmental Assessments (EAs).
- Preparation of Findings of No Significant Impact (FONSI) and Records of Decision (ROD).
- Public participation plans and public scoping meetings and hearings.
- Coordination with regulatory agencies (e.g., Section 7, consultation under the Endangered Species Act [ESA] and Section 106, consultation under the National Historic Preservation Act [NHPA]).
- Preparation of Resource Baseline Studies and Environmental Baseline Surveys (EBSs).

Natural Resource Studies and Management
- Biological and ecological monitoring studies, flora and fauna surveys, and habitat identification, analysis, and mapping.
- Threatened and endangered species studies and biological assessments in accordance with the ESA.
- Wetlands studies, delineation, mapping, mitigation planning, and Waters of the U.S. Determinations in accordance with the Clean Water Act (CWA).
- Soil erosion studies.
- Ecological Risk Assessments.

Cultural Resource Studies and Management
- Background archival investigations and preparation of technical reports.
- Terrestrial archeological surveys.
- Architectural assessment and documentation.
- Environmental assessment, impact, and resource documents.
- Cultural resource management plans.
- Agency coordination, as required under the National Historic Preservation Act (NHPA).

Planning and Economic Analysis
- Siting studies, installation planning, regional planning, and master planning.
- Land use planning (Integrated Land Use Management Plans).
- Facility master planning, Basic Facility Requirements (BFRs), Capital Improvement Plans (CIPs), Base Exterior Architecture Plans (BEAPs), and Facility Condition Assessments (FCAs).
- Air Installation Compatible Use Zone (AICUZ) and Range Compatible Use Zone studies.
- Transportation planning, traffic studies, forecasts, and modeling.
- Economic impact studies, socioeconomic assessments and environmental justice analysis.
• Geographic Information Systems (GIS) development, implementation, and training.

Environmental Compliance Audits

• FPM Group has conducted multimedia compliance audits for industrial clients and DoD. Using Federal, state, host-country, or international (ISO 14000) compliance assessment manuals that cover from 14 to 20 major environmental regulations and program areas (depending on the manual), FPM personnel conduct compliance audits through record searches, site visits, and interviews with facility and installation personnel.
• Corrective action plans that include alternative fixes and cost estimates. In addition, FPM has experience providing ISO 14000 support, including gap analysis, corrective action plans.
• FPM conducts seminars on all major environmental laws including the Clean Air Act (CAA), Resource Conservation and Recovery Act (RCRA), Emergency Planning and Community Right-To-Know Act (EPCRA), and Comprehensive Environmental Response Compensation and Liability Act (CERCLA).

Compliance Management Planning

FPM provides compliance management planning support in most major compliance areas, ranging from air emissions to groundwater quality. FPM’s knowledge and experience performing studies and investigations in response to the major Federal laws and regulations allow FPM to offer a wide variety of environmental compliance services, such as:

• Air emission inventories, monitoring, process modeling, indoor air quality studies, Title V air permits, Air Quality Management Plans.
• Asbestos/Lead Surveys, Corrective Action Plans, Comprehensive Asbestos/Lead Management Plans.
• Storm water Studies, National Pollutant Discharge Elimination System (NPDES) Permits, agency coordination, and Storm water Management Plans.
• Underground Storage Tanks (UST) inventories, investigations, upgrades, and UST Management Plans.
• Spill Prevention Control and Countermeasures (SPCC) Plans and Oil and Hazardous Substance Spill Contingency (OHSSC) Plans.
• Potable water surveys, testing, and Safe Drinking Water Act (SDWA) Management Plans.
• Pollution Prevention Opportunity Assessments and Pollution Prevention Plans.

Resource Conservation and Recovery Act (RCRA) Hazardous Waste Management Services

RCRA requires compliance with federal and state statutory and regulatory requirements to track hazardous wastes from cradle to grave. Hazardous waste management under RCRA is complex and requires the services of experts. FPM provides many hazardous waste management services, such as:

• Air, soil, surface water, and groundwater investigations and modeling.
• RCRA Facilities Assessments and RCRA Facilities Investigations.
• Corrective Measures Studies and Corrective Action Plans.
• Corrective Measures Implementation.
• Risk Based Corrective Actions.
• Risk Assessments, including Tier I and II Exposure Evaluations.
• Compliance monitoring.
• Data management.
RCRA Solid Waste Management Services

FPM provides solid waste management planning services for activities regulated under federal (RCRA Subtitle D) and state regulations. FPM professionals have been instrumental in the development of innovative approaches to solid waste management, including recycling/reuse program design, market analyses, establishment of business consortiums for cost-effective vendor pick-ups, characterization of waste for incinerator design and ash disposal requirements, and development of future land use plans for landfills. FPM's solid waste management services include:

- Recycling/reuse programs
- Solid Waste Engineering and Economic Feasibility Studies
- Solid Waste Management Plans
- Landfill gas/water long term monitoring programs

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Waste Management Services

CERCLA and the Superfund Amendments and Reauthorization Act (SARA) regulate the evaluation and remediation of inactive sites that have been contaminated by past practices. FPM's experience with CERCLA spans the full spectrum of CERCLA requirements, as highlighted below:

- Air, soil, surface water, and groundwater investigations and modeling.
- Preliminary Assessments and Site Investigations.
- Remedial Investigations and Feasibility Studies.
- Management Action Plans.
- Engineering Evaluation/Cost Analysis.
- Preparation of Decision Documents and Records of Decision.
- Remedial Designs and Remedial Actions.
- Remedial Action Surveillance and Oversight.
- Public participation support.
- Long-term monitoring.
- Phase I and Phase II Environmental Baseline Surveys.
- Data management.

SIN 899-7 Geographic Information Systems (GIS)

A Geographic Information System (GIS) is a tool for managing and analyzing data spatially. FPM Group uses this technology to transform data into clear, visual information for display and analysis. With GIS, information is integrated and associated with spatial geometry. This allows the user to clearly compare contrast data with the ease of programs such as ARC View and ARC Info. A GIS allows new meaning to be discerned from various data sets, leading to better, more informed decisions.

FPM Group uses the current software from GIS industry leaders to develop and apply GIS technology to all aspects of environmental services.
FPM Group’s GIS Services are used for the following:

- Mapping and Cartography
- Natural Resource Planning
- Site Selection
- Pollution Analysis
- Emergency Preparedness Planning
- Enterprise-wide GIS implementation
- Custom GIS application development and integration

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**SIN 899-8 Remediation**

Remediation is the culmination of a process that begins with discovery, investigation, engineering feasibility, cost analysis, and final alternative selection. After remediation the site is restored to an acceptable risk for whatever use the landowner requires. FPM performs the following activities both for DoD and private clients.

- Excavation, removal, manifesting, transportation, storage, treatment (on-site and off-site) and/or disposal of hazardous waste and hazardous materials
- Preparation, characterization, field investigation, conservation and closure of site
- Long Term Monitoring/Long Term Operation (LTM/LTO)
- Containment, monitoring and/or reduction of hazardous waste sites
- Underground Storage Tank (UST) removal
- Removal and clearing
- Military Munitions Program
- Landfill Reclamation
- Removal Action Plan
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM’S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

DESCRIPTION

As part of an Indefinite Delivery contract with the US General Services Administration (GSA) under GS10F0006L, FPM has performed several task orders for Environmental Advisory Services. A listing of the task orders executed to date follows:

<table>
<thead>
<tr>
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<th>PROJECT TITLE</th>
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</thead>
<tbody>
<tr>
<td>HSHQPD-15-F-0003</td>
<td>Survey of Plum Island Conservation Areas</td>
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<tr>
<td>W911SD-11-F-0120</td>
<td>Environmental Assessment for the Mine Lake Dam Rehabilitation</td>
</tr>
<tr>
<td>F41624-03-D-8601</td>
<td>Environmental Compliance Program Support Fairchild Air Force Base</td>
</tr>
<tr>
<td>FA8901-04-F-7000</td>
<td>GIS to Support the GeoBase Concept for AFRPA</td>
</tr>
<tr>
<td>W91238-04-F-0124</td>
<td>Edwards AFB, BEAL Analysis Supporting Permit Prep for HW TSDF</td>
</tr>
<tr>
<td>DACA05-03-D-0041</td>
<td>Edwards AFB, Upgrade Bulk Waste POL Facility</td>
</tr>
<tr>
<td>DACA63-03-F0130</td>
<td>Nellis AFB, EA for Landfill Exp. Construction at Tonopah Test Range</td>
</tr>
<tr>
<td>53-2349-2-0523</td>
<td>Plum Island WMA-9 Remediation, USDA</td>
</tr>
<tr>
<td>40-2349-3-0303</td>
<td>Plum Island Construction Debris Disposal; WMAs 7-8, 24</td>
</tr>
<tr>
<td>40-2349-3-0307</td>
<td>Plum Island WMA 26/27 and 2 Miscellaneous Sites Remediation</td>
</tr>
<tr>
<td>DACA05-03-F-0007</td>
<td>USACE/EAFB Hazardous Waste Operation Assessment</td>
</tr>
<tr>
<td>TIRNE-02-K-00021</td>
<td>Andover Sampling, IRS Beckley Finance Center</td>
</tr>
<tr>
<td>TIRNE-02-K-00019</td>
<td>Holtsville Sampling, IRS Beckley Finance Center</td>
</tr>
<tr>
<td>DASW01-01-F-175</td>
<td>AFCEE; Griffiss Nosedocks, RI</td>
</tr>
<tr>
<td>DASW01-01-F-0573</td>
<td>Environmental Advisory Services; Griffiss AFB</td>
</tr>
</tbody>
</table>
Survey of Plum Island Conservation Areas, Southold, New York
Surveys, Wetlands Mapping, Environmental Property Assessment

FPM was retained by the Department of Homeland Security (DHS) Science and Technology (S&T) Plum Island Animal Disease Center (PIADC) to perform a metes and bounds description of three conservation areas on Plum Island, Southold, NY.

The areas consisted of an inland 100-acre wetland/sensitive habitat and the beaches/coastal areas along the south coast (25 acres) and east end (35 acres). FPM surveyed the areas and provided mapping showing the annotated conservation limits with a metes and bounds description.

Due to historic and progressive beach erosion, permanent markers were also established for the areas to which the metes and bounds description could be tied. The work was completed on time and within budget.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FPMgroup TEAM'S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.
Environmental Assessment for the Mine Lake Dam Rehabilitation Project at U.S. Army Garrison, West Point, New York

Environmental, Environmental Assessment/Impact, EIS/EA, NEPA, Natural Resources, Endangered Species, Ecological

FPM was tasked by the United States Army Garrison (USAG) West Point Directorate of Public Works (DPW) to perform an Environmental Assessment (EA) on the Mine Lake Dam in accordance with the National Environmental Policy Act (NEPA) and its implementing regulations (40 CFR 1500 et seq) and 32 CFR 651, Environmental Analysis of Army Actions. The project proposes to rehabilitate the Mine Lake Dam which is a 504 ft. long 18 ft. high masonry and concrete gravity dam constructed circa 1846 reconstructed in 1940 and repaired in 1982.

The dam is progressively failing and can now potentially shift under the worst weather conditions. The dam needs to be upgraded to restore its stability to meet minimum performance standards. West Point is required to maintain its dams in accordance with the Federal Guidelines for Dam Safety as established by the Federal Emergency Management Agency.

FPM prepared the EA evaluating the affected environment and environmental consequences of the proposed and alternative actions. Environmental attributes including water resources, geology and soils, air resources, natural resources, cultural resources, visual resources, health and safety, noise, traffic and transportation, materials and wastes, land use, environmental justice, and cumulative impacts were evaluated and mitigation measures employed.

FPM prepared the EA, Finding of No Significant Impact (FONSI), and Notice of Advertisement (NOA) for the project.
Environmental Compliance Program Support, Fairchild Air Force Base, Washington

Environmental, HAZMAT, Hazardous Waste Management, Wastewater Management, Permits, Environmental Compliance, Hazardous Waste, Training, O&M

Through various contracts (4PA-E-Worldwide Planning, Program and Design Contract, Environmental Construction Operations & Services (ECOS) and General Services Administration GSA Contract), Fairchild AFB retained FPM to provide six consecutive years of support for technical program optimization and support of the environmental compliance program at Fairchild AFB.

FPM provided services that included permit compliance, technical guidance to shop personnel throughout the base, regulatory interaction, hazardous material management, hazardous waste management, minor spill response (during normal duty hours), and wastewater management throughout Fairchild AFB, WA. General areas include planning and programming; program management; studies; services; investigations; evaluations; assessments; consultations; value engineering; and operation, monitoring and optimization of environmental treatment or hazard control systems. Specifically FPM performed the following tasks:

- Maintain hazardous waste manifests IAW 40 CFR 262.23.
- Conduct environmental awareness training.
- Conduct twice monthly inspections of each hazardous waste satellite accumulation point (SAP) to ensure the SAP is in compliance with all federal and state regulations.
- Prepare the annual Dangerous Waste Report for Fairchild AFB in accordance with EPA and State regulations.
- Provide guidance to government construction managers to ensure contractors are complying with environmental requirements.
- Perform day-to-day interface with maintenance shops throughout the base regarding environmental requirements.
- Participate in environmental committee meetings associated with the base environmental compliance programs.
- Optimize the process of handling hazardous wastes on the facility.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM'S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

- Respond to minor spills, as required during normal operating hours. Participate in Base investigation of those spills, and provide recommendations for process improvements to reduce spill incidents and improve safety of personnel and the environment.
- Provide technical assistance in waste stream source and waste identification when issues are encountered.

USAF GeoBase – Enterprise GIS Design Implementation and Sustainment, Air Force Real Property Agency, Rosslyn, Virginia

Enterprise GIS, GeoBase, Program Management, Real Property, Land-Use Control, AR/IR, ERPIMS, Web MappingServices, Spatial Analysis, Map production

Under a firm fixed price delivery order through an existing GSA contract, FPM successfully assisted the Air Force Real Property Agency (AFRPA) with its requirement to consolidate and visualize multiple legacy GIS systems, data stores, and critical source data inherited through the BRAC process. Through needs assessments, client interviews, process evaluations, and information inventories baselines were established and project milestones determined.

Staff efforts resulted in the compilation, standardization, and visualization of spatial data for 32 BRAC installations by integrating real property inventory data, environmental program and sampling information, historical infrastructure and photographic files, and agency management information system data. Data and metadata integrity were established following the Federal Geographic Data Committee standards.

FPM adopted a streamlined and efficient process for converting raw legacy data into robust and usable enterprise-level GIS data using the Spatial Data Standards for Infrastructure and Environment (SDSFIIE). This data was loaded and managed in ESRI ArcSDE to support Agency web map services hosted on the AFRPA Integrated Information Tool (IIT) and stand-alone ArcGIS. Our team provided guidance and
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FPM group TEAM'S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

integration strategy for legacy GIS systems and implemented ESRI concurrent licensing across the entire Agency to eliminate duplicate licensing and consolidate GIS management efforts. FPM also provided AFRPA with documentation outlining the technical requirements and business process to ensure a robust and sustainable enterprise GIS for current and future use.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM’S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

BEAL Analysis supporting permit preparation for the HW TSDF, Edwards AFB, California

Laboratory Operations Analysis and Business Plan Development

The objective of the project is to analyze the Edwards AFB (EAFB) Base Environmental Analytical Laboratory (BEAL) operations in 11 specific areas and produce recommendations for the future in terms of short and long term projections. The 11 specific areas are:

- Capabilities (present and future) – Core competencies
- Support of Resource and Conservation & Recovery Act (RCRA)
- Hazardous Waste (HW) Treatment, Storage, and Disposal Facility (TSDF)
- Long-term groundwater monitoring at Environmental Restoration Program (ERP) sites
- Long-term monitoring at Solid Waste Management Unit (SWMU) sites
- Validation samples for Clean Water Act (CWA) monitoring
- Analytical and environmental chemistry associated with emergency response actions
- Customer profiles and needs
- Facility and equipment requirements
- Management and personnel
- Financial

The deliverable for this project titled BEAL Business Plan contained enough details to make the following readily identifiable:

- Nature of the business
- Customers
- Off-site similar services
- Management
- Personnel
- Equipment
- Facility
- Financial

In addition to the development of the BEAL Business Plan, FPM Group was tasked with reviewing, updating and developing, as necessary, all documents, certificates, and plans necessary for the transition of BEAL operations from one contractor to another contractor. The deliverable for this Task took the format of a transition plan that can be used by the government at any time to facilitate smooth transitions.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM'S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

Plum Island Construction Debris Disposal, Southold, New York

Environmental Consulting Services, Environmental Remediation

FPM was retained by United States Department of Agriculture (USDA), Plum Island Animal Disease Center (PIADC) to remove and/or recycle non-hazardous construction and demolition debris accumulated at Waste Management Areas (WMAs) 7, 8, 9, 24, 26 and 27 located on Plum Island, NY. Approximately 11,000 cy of waste material, including scrap metal, wood, concrete, and miscellaneous material was present at the WMAs from past demolition projects on the island.

FPM developed the scope of work, workplan/remedial design report, prepared RFP documents and obtained bids, and selected a remediation contractor. During remedial work, FPM provided construction management services, including construction oversight, QA/QC, monitoring, schedule review, logistics coordination, invoice review, and billing management.

The project involved excavation and removal as well as separating and processing the materials according to different waste categories (e.g., concrete, wood, metal etc.). Concrete waste was processed by a concrete crusher for PIADC’s future use as roadbed fill material. Wood based material was mulched by a wood grinder and was piled for eventual land application or burning by PIADC. Metal, uncrushable concrete, unmulchable wood and other miscellaneous material was transported off the island to a mainland recycler. Commercial and government ferries were utilized for transportation of equipment, personnel and waste materials from the island. Site grading / restoration was performed following the removal of all materials.

The project was completed on time and within the budget allocated.
USACE/EAFB Hazardous Waste Operations Assessment, Edwards Air Force Base, California

Hazardous Waste Operations Assessment

The objective of the work was to prepare an assessment of Edwards AFB (EAFB) hazardous waste disposal operations and produce recommendations for operations process improvements.

FPM Group identified the RCRA Class 1 operation requirements of each of the governing agencies. FPM Group reviewed Federal, CalEPA DTSC, and Kern County regulations; Air Force Instruction (AFI) 32-7086; DRMO-Asbury contractual requirements pertaining to EAFB HW operations; and the EAFB RCRA Part B permit application. Efforts included primarily document searches and also some telephone “source” interviews.

FPM Group also identified the current EAFB Hazardous Waste (HW) internal and external operations procedures. For internal operations, FPM Group focused on Environmental Management (EM) and the Conforming Storage Facility (CSF), reviewing the actual HW operation practices. The internal operation assessment was “cradle-to-grave” (from accumulation point pickup to validating HW final disposal). For external operations, FPM Group focused on DRMO/Asbury operations practices and other non-DRMO contracts/services. The operations assessment identified how the HW pickup services are engaged and how the services are “performed”.

FPM Group validated the EM review process of Hazardous Waste Manifests by performing a random review of EAFB Hazardous Waste manifests generated during 2002 and 2003. FPM Group looked for errors, deficiencies, improper completion or incorrect usage of the manifests.

FPM Group prepared two reports following completion of the assessments. The reports provided conclusions regarding HW practice vulnerabilities (if warranted) and operation process improvement recommendations.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FPM GROUP TEAM'S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

**Bacillus anthracis** (Anthrax) Sampling, in Holtsville, New York and Andover, Massachusetts

Environmental Consulting Services

FPM was contracted by the Internal Revenue Service (IRS) to perform surface sampling for presumptive testing for *Bacillus anthracis* (anthrax) in the primary mail processing room within each of the above-referenced facilities. The scope of work was developed in accordance with a project description provided by the IRS, equipment operation information obtained from the IRS during a pre-sampling site visit, discussions with IRS personnel, and from the Center for Disease Control (CDC) October 28, 2001 “Guidelines for Developing Environmental Sampling Strategy for *Bacillus anthracis* in Mail Processing Facilities”. Sampling was performed on short notice with rapid analytical turnaround to facilitate nationwide IRS management of its mail processing facilities.

FPM rapidly mobilized a sampling team to each facility to perform the sampling within the IRS-required time frame. Due to occupancy of the mail processing facilities during normal working hours, sampling was performed during either weekends or non-working hours (midnight to 5 AM). IRS facility entry included FPM compliance with strict IRS security procedures.

FPM provided its own personal protective equipment (PPE), including protective suits and respiratory protection, for the sampling work. Personnel decontamination was also performed by FPM.

FPM utilized a site plan provided by the IRS to prepare sketches of each area to be sampled. All mail contact surfaces and handling equipment were shown on the sketches together with the estimated area of each surface in square feet. The sketches also showed the sampling locations.

FPM obtained surface samples based on the number of pieces of mail processing
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM'S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

equipment and the number of mail handling surfaces on each piece of equipment. In some cases, representative samples were obtained from equipment with large number of similar mail handling surfaces. Each sample was obtained using the swab method and was identified with a unique sample identifier. Each sample identifier was recorded on a facility sketch. Each sample was managed according to the CDC guidelines and analytical laboratory protocols. The sample identifiers were recorded on a chain of custody document that also included the date and time of sample collection, the sampler’s name, and the analysis to be performed. The chain of custody document was maintained with the collected samples to document the sequence of sample possession.

FPM transmitted the collected samples for receipt within 24 hours of collection to the selected laboratory. The selected laboratory complies with CDC/NIOSH Safety Standards for laboratory manipulation of Bacillus anthracis, the Select Agent Rule, and documents the competency of its staff. Analysis complied with the CDC protocols for detection of Bacillus anthracis and included culturing of the extracted spores on appropriate media according to CDC protocols.

Verbal results were received by FPM within four business days of sample receipt by the laboratory and FPM communicated these results to the designated IRS Safety Officer via telephone on the day they were received. FPM also provided a written report approximately two days following receipt of the written sample results from the laboratory. The written report included a description of the sampling and sample management procedures, the site sketches showing the equipment sampled and the sample identifiers, a table of the sample identifiers with associated laboratory results, and the lab report.

The IRS has indicated its satisfaction with FPM’s responsiveness, quality of work, and final product. All of the sampling and reporting was accomplished within the required time frames and agreed budgets.

**Remedial Investigation/ AFBCA/AFCEE, Griffiss AFB, New York**

Remedial Investigation at an NPL site in EPA Region II, Characterization of chlorinated solvents, Evaluated natural attenuation, Utilized innovative techniques of groundwater vertical profiling

**Technical Performance, Capability, and Experience**

FPM conducted a Remedial Investigation (RI) to characterize the nature and extent of chlorinated volatile organic compounds (VOCs) contamination and quantitatively estimated the risk to human health and the environment at Site SD-52, in the vicinity of the Nose Docks. The RI delineated the extent of cis-1, 2-dichloroethene (DCE) and vinyl chloride (VC) detected in groundwater during previous on-base groundwater investigations.
FPM collected geologic, geophysical, hydrogeological, chemical, physical, and hydrologic data. FPM analyzed the samples for the chemicals of concern (COC’s) and natural attenuation indicators; evaluate the analytical results. FPM used the Air Force Center for Environmental Excellence (AFCEE) generic Quality Assurance Project Plan (QAPP) and general Sampling and Analysis Plan (SAP) as guidelines.

FPM installed seventeen (17) vertical profile groundwater monitoring wells to bedrock. Five (5) groundwater samples per boring were obtained using a combination of Hollow Stem Auger drilling and Hydropunch sampling. Groundwater samples were collected from each monitoring well location at 10’ intervals from groundwater surface (approximately 20’ below ground surface) to the top of bedrock (approximately 60’ below ground surface). Split spoons were also continuously advanced for soil screening. All vertical profile groundwater were analyzed for VOCs at an on-site mobile lab to determine the screen zone for the permanent well at each location. Groundwater samples from the permanent wells were sent to a fixed-base lab for VOC (SW826B) and natural attenuation parameters (nitrate/chloride/sulfate [EPA300], iron [SW6010], total organic carbon [EPA 415.1] analyses. Also six (6) soil borings were installed to delineate potential soil contamination in the source area. At each soil boring, one (1) surface and three (3) subsurface soil samples were collected per boring and also analyzed for VOCs using a fixed-base lab (SW8260B).

The groundwater sampling locations served to laterally and vertically delineate the upgradient and cross-gradient extent of the chlorinated solvent plume and confirm that contamination is not present at greater depths in the previously delineated downgradient extent of the plume. The soil samples served to delineate any residual source-area contamination.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM’S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

The data collection, sample collection, and laboratory analysis determined the source and magnitude of contamination relative to Applicable or Relevant and Appropriate Regulations (ARARs). Deliverables included a Work Plan, Field Sampling Plan (FSP), Health and Safety Plan (HASP), Quality Assurance Project Plan (QAPP), and a RI Report that includes a Baseline Risk Assessment (BRRA) and Conceptual Site Model (CSM).

Schedule Changes

- FPM mobilized two drill rigs and utilized quick laboratory turn-around-time to accelerate the project schedule.
**EXAMPLE PROJECT KEY NUMBER: 2**

**PROJECT TITLE AND LOCATION**
NYSOGS Environmental/AE Design Services Term Contracts for NYS Facilities
(Contracts: # S8372, S7206, S6236, DOS2552)

**COMPLETION DATE**
2011

**PROJECT OWNER’S INFORMATION**
Owner: NYS Office of General Services
P.O.C.: Mr. Jim Davies
Director of Design
Tele. No.: (518) 474-0337

**ESTIMATED COST**
Professional Services $3,000,000

**KEY PERSONNEL**
Program Manager: Gary A. Molnar, PE
QA/QC: Kevin J. Phillips, PE, PhD
Project Managers: Kevin F. Loyst, PE
Stephanie O. Davis, CPG, PG
Project Engineers: Ritu A. Mody, PE, LEED Green Assoc.
Ben T. Cancemi, CPG
John S. Bukoski

**OTHER FIRMS:**
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<th>Firm</th>
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<tbody>
<tr>
<td>LAWES</td>
<td>Center Moriches, NY</td>
<td>Direct-Push Services</td>
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**DESCRIPTION**
FPM was retained by the New York State Office of General Services (NYSOGS) to provide multi-discipline Environmental and AE services on four separate, consecutive three-year, multi-million dollar term task order IDIQ contracts. Over 100 Task Orders were accomplished to date totaling almost $3 Million. Several petroleum bulk storage examples completed under these contracts follow.

**Spill Investigation**
FPM performed a petroleum spill investigation for a New York State Correctional Facility located in Fishkill, NY.

The facility has a small hydraulic elevator that periodically leaked hydraulic fluid into a sump that was pumped and discharged to the surface of the outside grounds. FPM developed a remedial option and work plan delineating the contaminated area and a remediation design including excavating the area and replacing it with clean soil.

Provided construction oversight of the excavation and contaminated soil removal. FPM also collected end-point samples at various locations in the contaminated area to confirm the completion of remediation. The samples collected were analyzed by a New York State Department of Health certified lab for STARS Memo # 1 Table 2 parameters. Based on the results, a Closure Report was prepared for the spill and submitted to the New York State Department of Environmental Conservation.

**Spill Prevention Control and Countermeasure (SPCC)**
FPM prepared a Spill Prevention Control and Countermeasure Plans (SPCCP) for six New York State Correctional Facilities located at Queensboro, Edgecombe, Lincoln, Bayview, Arthukill and NYC DOCs Central Administration in Long Island City.

The SPCC plans were developed to satisfy EPA (40 CFR Part 112) regulations. The project correctional facility to identify and compile required SPCCP information such as location of the tanks and other petroleum storage; filling and transfer locations and equipment; secondary containment; locations of catch basins/storm drains in the vicinity of the petroleum storage; overall facility drainage.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM’S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

PROJECT NAME AND LOCATION

NYSOGS Environmental/AE Design Services Term Contracts for NYS Facilities ( Contracts: # S8372, S7206, S6236, DOS2552 )
(Continued)

at the site and specific tank/container compliance aspects. Development of the SPCC plan also included developing schedules for upgrading/inspecting tanks, recordkeeping, and describing procedures for personnel training.

Based on the information obtained, FPM prepared plans and provided Oil Spill Contingency Plan (OSCP) recommendations for each of the six correctional facilities to be kept on site and submitted them to the NYSOGS for their use.

UST Assessment

FPM evaluated five (5) New York State Department of Transportation (NYSDOT) motor-fueling facilities regarding problems experienced with their underground storage tanks (USTs), fueling stations, and associated appurtenances. FPM performed a code review of applicable regulations including:

- UST design, construction, and operating standards and corrective action requirements - 40 CFR 280;
- New York State Uniform Fire Prevention and Building Code, 10 NYCRR Sections 1002.2 and 1002.5;
- Nassau County Department of Health (NCDOH) – Nassau County Public Health Ordinance Article XI – Toxic and Hazardous Materials Storage, Handling and Control Regulations and Ordinance, Review Checklist for Belowground Tanks; and

Based upon the code review, checklists were compiled for the above requirements and site inspections were performed of the five (5) facilities. Upon inspection, deficiencies were noted in many areas beyond the USTs themselves such as inventory control, fuel dispensing systems, fire suppression systems, electrical power and control, and operational maintenance requirements. The result of the study concluded that improvements would be required in most, if not all, of the tank system components to bring the facilities up to code. The improvements ranged from simple fixes to complete system replacements. The list of deficiencies was compiled along with the applicable code requirements into a matrix by facility. For each deficiency, alternative feasible corrective actions were provided along with a range of costs for each proposed corrective action. A final report was prepared documenting the general conditions at the NYSDOT facilities along with sufficient information to allow others to prepare design documents for the corrective actions.
Environmental/Subsurface Investigation, Monitoring, and Remediation

FPM performed a spill investigation for the New York State Parks Department via FPM’s contract with the New York State Office of General Services (NYSOGS) at the Belmont Lake State Park Vehicle Maintenance Facility in Babylon, New York. The work was performed to evaluate the vertical and lateral distribution of dissolved petroleum associated with an active gasoline spill.

The scope of work included the following tasks:

- Preparation of remediation option and work plan. The work plan was subsequently approved by the New York State Department of Environmental Conservation (NYSDEC);
- Performing direct-push groundwater sampling to delineate the vertical and horizontal extent of petroleum-impacted groundwater;
- Performing a relative elevation survey to evaluate sample depths and the water table elevation. These elevation data were subsequently used in preparing site maps and cross-sections; and
- Preparation of a report detailing sampling procedures and results, and including interpretation of the chemical analytical data.

Based on the results of the investigation, FPM recommended that several groundwater monitoring well clusters be installed to complete the monitoring network and that a quarterly monitoring program be implemented. No remediation was warranted or recommended. The NYSDEC subsequently agreed with these recommendations and approved the installation of the monitoring network.

The monitoring network was installed in 2002 and quarterly monitoring was initiated. The initial monitoring results indicated that the MTBE and total BTEX plumes decreased considerably in extent and magnitude since the plumes were initially investigated. Free-phase product remained present at one monitoring well and was remediated using absorbent materials. The product was completely removed. FPM requested spill closure, which was granted subject to abandonment of the monitoring wells. The wells were properly abandoned and the NYSDEC approved the completed work.

Floor Drain Investigation and Remediation

FPM performed spill investigation of the floor drains located in the Belmont Lake State Park Vehicle Maintenance Facility in Babylon, New York for the New York State Parks Department via a contract with the New York State Office of General Services (NYSOGS). The work was performed in response to a New York State Department of Environmental Conservation (NYSDEC) compliance inspection, which noted a number of non-compliant conditions.

The scope of work included the following tasks:

- Preparation of a remediation option and workplan. This work plan was subsequently approved by the NYSDEC and Suffolk County Department of Health Services
- Locating and cleaning each floor drain to facilitate flow and/or dye testing;
- Performing flow and/or dye testing to locate the discharge point of each floor drain;
Utilizing additional testing methods, including radio frequency, electromagnetic, and camera tracing, to determine floor drain discharge points;

Sampling the sediments and liquids in each floor drain discharge point to evaluate if petroleum or contaminants were present. Analytes included volatile and semivolatile organic compounds, and metals; and

Preparation of an investigation report including the drain/discharge point layout for each floor of this two-floor facility; sampling procedures and results, and recommendations based on interpretation of the chemical analytical data and discharge system layout.

The NYSDEC and SCDHS reviewed and approved the investigation report. Approved recommendations included remediation of several leaching pools, accessing and sampling an inaccessible sub-floor structure, establishing a drum storage area in compliance with SCDHS regulations, sealing of the indoor floor drain system, and application of appropriate security measures for a sump to remain in operation. The NYSDEC also requested some additional sampling of a storm drain discharge point. FPM executed this additional work and received NYSDEC approval of the completed work.

Environmental, Hazardous Material Storage Area

FPM prepared a Suffolk County Department of Health Services (SCDHS) Article 12 – Permit to Construct Toxic/Hazardous Materials Storage Facility application for the New York State Parks Department at the Belmont Lake State Park Vehicle Maintenance Facility in Babylon, New York. FPM performed a site visit, collected pertinent data and prepared an inventory for all the petroleum and other hazardous chemicals and their quantities that were used and stored at the facility.

Based on the information obtained, FPM filed an Article 12 application for SCDHS approval including plans detailing floor berming, coated floors and containment calculations.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM’S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

EXAMPLE PROJECT KEY NUMBER: 3

PROJECT TITLE AND LOCATION
Petroleum Investigation and Remediation
48 Laight Street, New York, NY

COMPLETION DATE
Professional Services: 2009

PROJECT OWNER’S INFORMATION
Owner: 48 Laight Street Associates
P.O.C.: David Ennis
Tel. No.: (212) 421-3535

ESTIMATED COST:
Professional Services $101,000

DESCRIPTION
FPM Group (FPM) was retained by 48 Laight Street Associates, LLC, a real estate development firm, to coordinate and oversee remediation of a petroleum spill during redevelopment of a commercial property in Lower Manhattan, New York. The property was originally developed with a service station that had been inactive for some years. Redevelopment plans included removal of all site materials to a depth of 14 feet below grade to allow for the construction of a full basement for a multi-story residential building. A site investigation previously performed by others indicated the presence of several underground and aboveground storage tanks (USTs and ASTs) and petroleum-impacted soil and groundwater. A petroleum spill had been reported to the New York State Department of Environmental Conservation (NYSDEC).

FPM performed an additional investigation to more fully characterize the nature and extent of soil and groundwater impacts and to obtain accurate depth to groundwater information. All of the site data were summarized and a draft Remedial Action Plan (RAP) was prepared. Following client approval, the RAP was presented to the NYSDEC for approval. FPM negotiated with the NYSDEC and the RAP was subsequently conditionally approved. The RAP included removal of impacted soil, tank removal, treatment of the impacted groundwater with oxygen-releasing compounds (ORC), and installation and monitoring of a passive venting system for the new building.

FPM prepared a scope of work, which was used by the client to obtain bids for the remediation. FPM evaluated the bids and recommended a contractor to perform the tank and soil removals. These tasks were performed successfully during the course of redevelopment activities. FPM observed the remediation and collected confirmatory samples in accordance with NYSDEC procedures. ORC was added to the completed excavation to address soil that could not be removed. Following the completion of remediation, FPM prepared a remediation report for submittal to the NYSDEC summarizing the procedures, the confirmatory sample results, and our conclusions and recommendations. Tank removal affidavits were also submitted to the New York City Fire Department.

FPM also prepared a conceptual design for the passive venting system. This conceptual design was incorporated in the new building plans by the architect. The venting system was constructed by the construction contractor with periodic confirmation observations by FPM. When the system was complete, FPM initiated monitoring. The venting system monitoring results indicated no significant vapors beneath the building.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM’S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

Monitoring wells were installed during building construction and FPM initiated a periodic groundwater monitoring program in accordance with NYSDEC requirements. The monitoring program showed that although the groundwater impacts were reduced, they were not eliminated. FPM subsequently prepared a RAP that included injection of ORC to accelerate natural attenuation. The RAP was approved by the NYSDEC and ORC injections were conducted. The ORC appeared to further reduce groundwater impacts.

A receptor survey was conducted, as required by the NYSDEC, to assess the potential for exposure to offsite impacted groundwater. The area between the site and the Hudson River, approximately 0.2 miles downgradient, was surveyed and all buildings were confirmed to be serviced by public water. The NYSDEC confirmed that it had no record of any supply wells in the site area. Therefore, it was concluded that there was no potential for exposure to impacted groundwater.

Additional groundwater monitoring was required prior to spill closure. However, construction dewatering in the site vicinity resulted in a lowering of the water table for a period of two years and, therefore, monitoring was suspended. Monitoring was restarted as the water levels rebounded. The monitoring results were favorable and spill closure was requested.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM’S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

### EXAMPLE PROJECT KEY NUMBER: 4

#### PROJECT TITLE AND LOCATION:
Major Oil Storage Facility Closure  
Glenwood Landing, New York

#### COMPLETION DATE:
Ongoing

#### PROJECT OWNER’S INFORMATION:
Owner: Confidential

#### ESTIMATED COST:
Professional Services: $200,000

#### KEY PERSONNEL:
- Program Manager: Kevin J. Phillips, PE, PhD
- Project Manager: Stephanie O. Davis, CPG, PG
- Project Scientist: John Bukoski
- Project Engineer: Kevin F. Loyst, PE
- Field Services: George Holmes

#### OTHER FIRMS:
- York Analytical: Stratford, CT, Lab Services
- L.A.W.E.S.: Center Moriches, NY, Drilling Services

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### DESCRIPTION

FPM was retained by a property redevelopment firm to provide environmental services for acquisition and closure of a former Major Oil Storage Facility (MOSF) situated in NY. This project included closure of multiple large oil storage tanks, underground injection control structures and two open petroleum spills, and restoration of the site for residential use.

#### Remediation and Reporting Services

FPM assisted the client with obtaining bids for remedial construction services and with waste disposal approvals. FPM provided oversight and coordination during remedial construction, including coordinating with the remedial contractor, the NYSDEC, and the NCDOH, documenting remedial progress, conducting monitoring, obtaining and analyzing confirmatory samples, and confirming when remediation was complete in each area and the objectives of each approved work plan had been met. FPM also documented site restoration activities. The resulting data were compiled into reports to document the completion of activities under each work plan. Following client review and approval, the completed reports were submitted for regulatory agency approval. The remedial process resulted in site restoration to a condition suitable for redevelopment for residential use. Redevelopment is pending.

#### Remediation Work Plans

FPM prepared remediation option and work plans for oil storage tank closures, underground injection control (UIC) structure closures, and petroleum spill closures. Work plans were prepared in accordance with NYSDEC and/or NCDOH guidance and were negotiated with both regulatory agencies so as to provide the most practical and cost-effective remedial approach. In each case, agency approval was obtained for the final work plan, and the approved work plans were integrated into the overall approval process for site redevelopment.

#### Pre-Acquisition Environmental Services

FPM reviewed existing reports, agency files, and state/federal database records to assess the environmental condition of a MOSF that was contemplated for purchase and redevelopment for residential use. Using this information FPM developed a Phase II scope of work designed to fill in data gaps, confirm existing information, and assess issues not previously addressed. A budget and schedule were developed for the Phase II investigation and approved by the client. FPM completed the Phase II investigation on time and within budget and reported the results to the client for use in property acquisition.
EXAMPLE PROJECTS WHICH BEST ILLUSTRATE TEAM’S QUALIFICATIONS FOR PROJECTS UNDER SIN899-1, 899-7, AND 899-8.

**Support for Redevelopment Approvals**

Approvals were required under New York State Environmental Quality Review (SEQR) prior to redevelopment of the MOSF. FPM attended numerous public hearings on behalf of the applicant and provided environmental information in support of the SEQR process. FPM collaborated with the applicant’s attorneys, land use planners, and agency representatives to provide the requested information in a timely manner and to assist in public presentations. The redevelopment project was approved subject to remediation of the outstanding environmental issues.
Labor Category Qualifications

Labor Category Qualification Requirements: The following list of qualifications reflects personnel requirements associated with the environmental and traditional activities in the contract. Four years of relevant experience may be substituted for a bachelor’s degree. Degrees and professional registration may be substituted for experience requirements. For example, a Program Manager without a bachelor’s degree must have 16 years relevant experience (4 years to substitute for the bachelor’s degree and 12 for the minimum experience). A Master’s degree is equivalent to 1 additional year of experience beyond a bachelor’s degree, and a PhD is the equivalent of 3 additional years of experience beyond a bachelor’s degree. Additionally, professional registration may or may not be required at the task order level.

1. Program Manager: The Offeror’s program manager shall be responsible for the overall management of tasks performed under this contract and shall be the primary point-of-contact for overall contractual issues. The Offeror shall assign the program manager upon award of the contract. He/she shall be responsible for ensuring that practical and effective systems are developed to meet the objectives of the action. The program manager shall also ensure that quality of work is completed on schedule and within the allocated budget. The program manager shall have, as a minimum, the following qualifications:
   a) Bachelors degree from an accredited school in a technically related field such as: engineer, geologist, hydrologist, chemist, and industrial hygienist
   b) Professional registration where required by task order
   c) A minimum of ten (10) years Program Management experience, and a minimum of five (5) years experience in environmental program management
   d) Working knowledge of applicable environmental or traditional federal, state, and local laws, regulations, and guidance

2. Project Manager: The project manager shall be responsible for implementing specific task orders under this contract. He/she shall evaluate the requirements of a task order and shall develop and implement a plan to meet those requirements. The project manager shall be the primary point-of-contact for an individual task order. The project manager shall have, as a minimum the following qualifications:
   a) Bachelors degree from an accredited school in a technically related field such as: architect, engineer, geologist, hydrologist, chemists, physics, biology, computer programmer, computer systems analyst, and industrial hygienist
   b) Professional registration, where required by task order
   c) A minimum of five (5) years Project Management experience, and a minimum of five (5) years experience managing environmental or traditional projects at the field operational level
3. **Engineer VII:** Makes authoritative decisions and recommendations having important impact on extensive engineering activities of company. Initiates and maintains extensive contacts with key engineers and officials of other organizations and companies, requiring skill in persuasion and negotiation of critical issues. Individual at this level demonstrate a high degree of creativity, foresight, and mature judgment in anticipating and solving unprecedented engineering complexities, determining program objectives and requirements, organizing programs and projects, and developing standards and guidelines for diverse engineering activities. Registration as a licensed Professional Engineer is a requirement. Typical duties and responsibilities include one or both of the following: 1) planning, organizing and supervising work of large staff of engineers and technicians; 2) as individual researcher or consultant, is recognized leader and authority in company in broad area of specialization or intensely specialized field. Minimum education required is a Bachelors Degree in Engineering. Minimum experience level is 10 years.

4. **Engineer VI:** Has full responsibility for interpreting, organizing, executing and coordinating assignments. Plans and develops engineering projects concerned with unique or controversial complexities which have important impact on major company programs. This involves exploration of subject area, definition of scope, selection of areas for investigation, and development of novel concepts. Acts as technical liaison to individuals within and outside the organization with responsibility to act independently regarding technical matters pertaining to individual's field. Registration as a licensed PE is required for most in this classification. Supervision received is essentially administrative, with assignments given in broad terms concerning general objectives and limitations. Typical duties and responsibilities include one or more of the following: 1) plans, organizes, and supervises work of staff of engineers and technicians; 2) as individual researcher, consultant, or staff specialist, conceives plans and conducts research in areas of considerable scope and complexity. Minimum education required is a Bachelors Degree in Engineering. Minimum experience level is 7 to 10 years.

5. **Engineer V:** Applies diversified knowledge of engineering principles and practices to broad variety of assignments and related fields. Makes decisions independently regarding engineering complexities and methods. Requires use of advanced techniques and modification and extension of theories, precepts, and practices in individual's field. Registration as licensed Professional engineer may be required. Supervision and guidance relate largely to overall objectives, critical issues, new concepts, and policy matters. Consults with supervisor concerning unusual problems and developments. Typical duties and responsibilities include one or more of the following: 1) supervises, coordinates, and reviews work of small staff of engineers and/or technicians, 2) as individual researcher or staff specialist, performs complex or novel assignments requiring development of new and/or improved techniques and procedures. Minimum education required is a Bachelors Degree in Engineering. Minimum experience level is 5 to 8 years.

6. **Engineer IV:** Fully competent engineer in all conventional aspects of subject matter or functional area of assignments; plans and conducts work requiring judgment in independent
evaluation, selection, an substantial adaptation/modification of standard techniques, procedures, and criteria. Devises new solutions to problems encountered. Independently performs most assignments with instruction only regarding general expected results. Receives technical guidance for unusual or complex problems and supervisory approval of proposed project plans. May supervise a few engineers and/or technicians on project basis. Generally requires 2 years Engineer 3 or related experience or equivalent schooling. Minimum level of education required is a Bachelors Degree in Engineering

7. Engineer III: Independently evaluates, selects, and applies standard engineering techniques and procedures while using judgment when making minor adaptations and modifications. Assignments have clear and specific objectives and require investigation of limited number of variables. Receives instructions on specific assignment objectives, complex features, and possible solutions. Assistance given for unusual problems and normally reviewed for application of sound professional judgment. Performs work involving conventional plans, investigations, surveys, structures, or equipment with relatively few complex features for which there are few precedents. May be assisted by engineers or technicians and be responsible for single phase of a project. Generally requires a minimum of 1 year Engineer 2 or related experience or Ph.D degree. Minimum education required is a Bachelors Degree in Engineering

8. Engineer II: Continuing developmental level performs standard engineering work requiring applications of standard techniques and procedures. Limited exercises of judgment required when less common methods or procedures are necessary. Assignments may include higher-level work for training/developmental purposes. Supervisor screens assignments for unusual complexities and selects non-routine techniques and procedures to be applied. Receives close supervision on new aspects of assignments. Using prescribed methods, performs specific and limited segments of an experienced engineer’s broader assignment. Performance generally requires a minimum of 1 year as Engineer I or related experience, or an MS degree. Minimum education required is a Bachelors Degree in Engineering

9. Engineer I: Entry level professional requiring Bachelor’s degree in Engineering and no experience, or the equivalent (to a degree) in appropriate education and experience. Works under close supervision; receives specific and detailed instructions for required tasks and results expected. Performs a variety of routine tasks, which provide experience and familiarity with engineering staff, methods, practices, and programs. Usually assumes no responsibility for direction of others.

10. Scientist VII: Makes authoritative decisions and recommendations having important impact on extensive scientific activities of organization. Initiates and maintains extensive contact with key scientists and officials of other organizations and companies. Individuals at this level demonstrate a high degree of creativity, foresight, and mature judgment in planning, organizing and guiding extensive scientific projects. Typical duties and responsibilities include one or both of the following: 1) supervisory responsibility for important segment of organization’s scientific programs; 2) as individual researcher and consultant, selects problems for research to further the organization’s major projects and objectives. As a leader and authority in company and area of specialization, advises Department Head or company officials on complex aspects of extremely broad and important programs. Minimum level of education experience is a Bachelor of Science in some scientific discipline. Minimum total experience level is 10 years.
11. **Scientist VI:** Has full technical responsibility for interpreting, organizing, executing and coordinating overall project assignments. Formulate and conducts systematic problem-area resolution of considerable scope and complexity through a series of complete and conceptually related studies, or a number of projects of lesser scope. Acts as technical liaison to individuals within and outside his organization with responsibility to act independently regarding technical matters pertaining to his/her field. Supervision received is essentially administrative, with assignments given in broad terms concerning general objectives and limitations. Plans, organizes, and supervises work of staff of Scientists and technicians. Minimum level of education experience is a Bachelor of Science in some scientific discipline. Minimum total experience level is 7 - 10 years.

12. **Scientist V:** Applies diversified knowledge of scientific principles and practices to broad variety of assignments and related fields. Requires use of advanced techniques and modification and extension of theories, precepts, and practices in individual's field. Participates in planning and executing project programs using specialized knowledge of complexities, methods and probable value of results. May serve as expert in narrow specialty (e.g. Ornithology, Ichtyoplankton, Radiology, etc.) making recommendations and conclusions, which serve as basis for undertaking or rejecting specific project tasks. Requires sufficient breadth of knowledge and Scientist IV work experience to have achieved a position of identifiable expertise within organization. Professional certification maybe required. Supervision and guidance relate largely to overall objectives, critical issues, new concepts, and policy matters. Consults with supervisor or specialized outside-authority concerning unusual problems and developments. Typical duties and responsibilities include one or more of the following: 1) as a supervisor, plans, organizes, and directs assigned project programs. Independently defines scope and critical elements of projects and selects steps to be taken. Supervises small staff of Scientists and technicians on project basis; 2) as individual researcher or specialist, performs complex or novel assignments requiring development of new or improved techniques and procedures. Minimum level of education experience is a Bachelor of Science in some scientific discipline. Minimum total experience level is 5-8 years.

13. **Scientist IV:** Fully competent scientist in all conventional aspects of subject matter or functional area of assignments; plans and conducts work requiring: 1) mastery of specialized techniques or ingenuity when selecting and evaluating solutions to unforeseen or novel complexities, and b) ability to apply analytical solutions to wide variety of problems and assimilate details and their significance toward various scientific analyses, procedures, and tests. Requires sufficient professional experience to assure competence as a fully trained scientist in individual's discipline or expertise. Generally requires 1 to 2 years Scientist 3 or related experience. Independently performs most assignments with instruction only regarding general expected results. Receives technical guidance for unusual or complex problems and supervisory approval of proposed project plans. May supervise small staff of scientists and technicians on project basis. Minimum level of education experience is a Bachelor of Science in some scientific discipline. Minimum total experience level is 4-6 years.

14. **Scientist III:** Independently evaluates, selects, and applies standard scientific techniques and procedures while using judgment when necessary to adapt standard methods and techniques. Assignments have clear and specified objectives and require investigation of
limited number of variables. Generally requires a minimum of 1 year Scientist 2 or related experience or a Ph.D degree without experience. Receives instruction on specific assignment objectives, complex features, and possible solutions. Assistance given for unusual problems and normally reviewed for application of sound professional judgment. May supervise or coordinate work of technicians and be assisted by lower-level scientists. Minimum level of education is a Bachelor of Science in a scientific field.

15. **Scientist II:** Continuing developmental level that performs standard scientific work requiring application of standard techniques and procedures. Limited exercise of judgment required when less common methods or procedures are necessary. Detects problems when using equipment, etc. Conducts specific phases of projects for more experienced scientists. For training and developmental purposes, assignments may include some work that is typical of a higher level. Performance generally requires a minimum of 1 year as Scientist 1 or related experience, or an MS degree. Minimum level of education is a Bachelor of Science in a scientific field.

16. **Scientist I:** Entry level professional requiring Bachelors Degree in science and no experience, or the equivalent (to a degree) in appropriate education and experience. Works under close supervision and receives specific and detailed instructions for required tasks and results expected. Performs a variety of routine scientific tasks, which provide experience and familiarity with scientific staff, methods, practices, and programs. Usually assumes no responsibility for direction of others, except for possible assistance in collection data.

17. **Architect II:** A leading contributor position responsible for the overall design and technical oversight of complex technology solutions driven by client initiatives and the client's environment. Responsibility will span all layers of the business infrastructure and interfaces with the customer and executive management to define requirements and recommend solutions. The architect must be able to develop solution recommendations to clients and provide technical leadership and oversight to the implementation of the solution. The project architect shall have, as a minimum the following qualifications:
   a) Bachelors degree from an accredited school in an environmentally or traditional related technical field consistent with the required duties
   b) A minimum of ten (10) years of directly applicable environmental or traditional experience since receiving degree is required
   c) Professional Registrations, where applicable and required by the task order
   d) Proficient written and oral communication skills

18. **Architect I:** Perform routine tasks such as preparing graphical or tabular presentations of data, simple data interpretation, preparation of supporting material etc. The junior architect shall have, as a minimum, the following qualifications:
   a) Bachelors degree from an accredited school in an environmentally or traditional related technical field consistent with the required duties
   b) A minimum of zero (0) to four (4) years of directly applicable environmental or traditional experience

19. **Technician:** Performs direct technical work on projects. Follows standard work methods on recurring assignments but receives instruction on unfamiliar assignments. Assembles,
constructs, services, and/or repairs simple or standard equipment or parts. The junior construction technician shall have, as a minimum, the following qualifications:
   a) High School Diploma
   b) A minimum of zero (0) years of directly related experience

20. CADD Operator III: Responsible for gathering data from a variety of sources. Attend project and pre-construction management meeting and provide input to ensure proper policies, and procedures are followed. May develop documentation, budget figures, staffing needs and training plans, goals and accomplishments for project management reports; monitors accomplishments as related to targeted goals. Assist in preparing studies and evaluations involved in the development of projects for concept designs. Researches best practices and maintains outside contact with other specialists. Prepare technical presentations, reports and analysis in area of specialty. The senior CADD/GIS operator shall have, as a minimum, the following qualifications:
   a) Bachelors degree and a minimum of two (2) to three (3) years directly related experience
      OR
   b) High School Diploma and a minimum of seven (7) years or more directly related experience

21. CADD Operator II: Ability to manage computer file systems, understand file interrelationships and customize data with the individual files. Ability to identify specific information from a substantial amount of related data or written information from such sources as reports, and manuals. Read and understand the terminology and symbols used in this industry. Transfer information in numerical, written, sketched, or electronic format from sources. The mid CADD/GIS operator shall have, as a minimum, the following qualifications:
   a) High School Diploma
   b) A minimum of five (5) to six (6) years of relevant experience

22. CADD Operator I: Uses advanced desktop publishing, page layout, and/or typesetting software to design and develop high quality textual and graphic compositions to communicate complex technical information. The junior CADD/GIS operator shall have, as a minimum, the following qualifications:
   a) High School Diploma
   b) A minimum of zero (0) to two (2) years of directly related experience

23. Administrative Assistant II: Performs a variety of administrative and organizational tasks. Performs routine tasks such as filing organizing and scheduling in support of the office or team. The administrative assistant shall have, as a minimum, the following qualifications:
   a) High School Diploma
   b) A minimum of five (5) or more years of office related experience
24. **Administrative Assistant I**: Administrative personnel responsible for word processing activities. Operates with a high degree of proficiency and skill on various computerized word processing equipment in preparation of technical and non-technical documents, reports, tables, etc., in a professional accurate and timely manner. The word processor shall have, as a minimum, the following qualifications:
   a) High School Diploma
### FPM Group Ltd. Rates for 5 year Contract Period

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The Service Contract Act (SCA) is applicable to this contract and it includes SCA applicable labor categories. The prices for the indicated SCA labor categories are based on the U.S. Department of Labor Wage Determination Number(s) identified in the matrix. The prices offered are based on the preponderance of where work is performed and should the contractor perform in an area with lower SCA rates, resulting in lower wages being paid, the task order prices will be discounted accordingly.

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