HANA ENGINEERS & CONSULTANTS, LLC

CAPABILITIES STATEMENT

HANA ENGINEERS & CONSULTANTS, LLC provides top-quality professional engineering, scientific, and construction management solutions to the federal marketplace. Hana is certified by the U.S. Small Business Administration under its 8(a) Business Development Program. Hana's personnel includes professional engineers and scientists who bring big-firm experience to a small-business environment. Services include environmental, geotechnical, civil works, and construction management.

541330 Engineering Services (primary)
541620 Environmental Consulting Services
541340 Drafting Services
562910 Remediation Services
541611 Administrative Management and General Management Consulting Services
541513 Computer Facilities Management Services
541990 Other Scientific and Technical Consulting Services

GSA OASIS 8A Pool 1: 47QRAD20D8183
GSA Schedule: 47QRAA22D003N
SINs: 541330ENG • 541611 • 541620 • 562910RMI • OLM

ENVIRONMENTAL

Site Assessment/Investigation

- CERCLA/RCRA Site Investigations (SI)
- Voluntary Remediation Program Investigations
- Utility and Right of Way Assessments
- Natural Resource Assessments
- Impact Assessment Planning
- Geophysical Investigations
- NEPA Assessments
- Geologic and Hydrogeologic Investigations
- Human Health and Ecological Risk Assessments
- Vapor Intrusion Assessments
- Emerging Contaminants/PFAS

Remediation

- Contaminated Soil and Debris Removal, Transportation and Disposal
- In Situ Soil Treatment
- Dredging of Contaminated Sediments
- In Situ Sediment Treatment
- Groundwater Extraction and Treatment
- In Situ Groundwater Remediation
- Vapor Intrusion Mitigation
- Site Restoration (Post-Remediation)
- Hazardous Materials Abatement

Munitions

Range Assessments

- Range Inventories
- Environmental Vulnerability/ Condition Assessments
- U.S. Army and Air Force ORAP
- Marine Corps REVA

Operational Range Clearance

- Project Plans
- Vegetation Management
- Visual and Detector-Aided Munitions Clearance
- Target Replacement
- Radiological Surveys

Military Munitions Response Program

- Site Investigations
- Underwater and Terrestrial Digital Geophysical Mapping
- Underwater and Terrestrial Munitions Removal/Mgmt.
- Public Meetings
- Permitting
- MC Sampling and Risk Assessments

Construction Support

- MEC Avoidance

Engineering and Design

- Treatability Study Design
- Stormwater System Design
- Shoreline Stabilization
- Remediation System Design
- Remediation System Optimization

Environmental Compliance

- Electric and Natural Gas Utilities, Renewables, Low-Carbon Fuel Processing
- Hazardous Waste Mgmt. Plans
- Air Permitting
- Spill Prevention Plans
- Stormwater Management Plans
- Pollution Prevention (P2) Plans
- Hazardous Material Surveys
- Water Quality Testing

GEOTECHNICAL

Engineering and Design

- Shallow/Deep Foundation Design
- Slope Stability/Settlement Analyses
- Ground Improvement and Land Reclamation Design
- Retaining Structure Design
- Waterfront/Marine Structure Design
- Utility and Renewables Design
- Liquefaction and Earthquake Engineering
- Numerical and Finite Modeling

Field Investigation and Site Characterization

- SPT Borings and Test Pit Investigations
- In Situ Soundings (CPT & DMT)
- Soils Laboratory Testing
- Geotechnical Instrumentation Monitoring

OPERATIONS SUPPORT (CIVIL WORKS)

- Dredged Material Management Planning and Guidance
- Beach Nourishment Project Planning and Guidance
- Utility and Renewables Project Site Prep
- Regional Sediment Management Plans
- USACE Permit Compliance Guidance
- Asset Management
- Preparation and Review of Dredging Contracts
- Sediment Sampling Planning and Guidance
- Review of Emergency Management Plans
- Inspection of Completed Works (ICW)

CONSTRUCTION MANAGEMENT

- Design Management
- Energy Services Consulting
- Utility / Municipal Right of Way
- Corporate Sustainability Programs
- Constructability Review
- Building Information Modeling (BIM)
- Project Feasibility Studies
- Cost Estimating
- Value Engineering
- LEED Certification Planning
- Master Scheduling
- Budgeting, Forecasting, EVM
- Inspection Services
- Quality Assurance / Control
- RFI Management
- Change Order Management

OTHER SERVICES

- Computer Aided Design and Drafting (CADD)
- Geographic Information Systems (GIS)
- SpecsIntact
- Technical and Peer Review
- Accident Prevention Plans
- Preparation of Plans and Specifications
- Public Affairs
- Data Management

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SELECT PROJECTS

FUDS Site 2A Supplemental Remedial Investigation / Feasibility Study
Camp Sibert, AL / USACE Savannah Site 2A was used for chemical agent decontamination training prior to 1945. Hana was contracted to identify extent of contamination and data gaps for chlorinated solvents in groundwater, as well as potential vapor intrusion. Activities include conducting dye testing for the evaluation of contaminant interaction with surface water and installing bedrock wells within complex geology.

Off-Base Sampling / Mitigation for Emerging Contaminants
Various Locations, Southeastern U.S. / USACE Savannah & Air National Guard
Hana conducted well record research to identify potential private drinking water wells that could be impacted by Perfluorooctanoic Acid (PFOA)/Perfluorooctyl Sulfonate (PFOS)-contaminated water. Developed project-specific database to store all controlled unclassified information. Geographic Information System (GIS) used to develop site maps, including aerial photos, base features, surface water features, and well locations.

Environmental Investigation of Containerized Housing Units (CHUs)
Guantanamo Bay, Cuba / USACE Savannah Performed environmental assessment and indoor air quality testing of 135 CHUs. This included the collection of indoor air quality readings, sampling for formaldehyde, VOCs, fungi, and asbestos. Data were screened against Military Exposure Guidelines for deployed personnel. Overcame multiple setbacks resulting from COVID-19 quarantine procedure, security, and training requirements for conducting of work outside the continental United States (OCONUS).

CERCLA Groundwater Investigation at Former Manassas Air Force Communication Facility
Manassas, VA / USACE Norfolk and Baltimore Hana provided hydrogeological support for HTRW project executed under FUDS DERP. Project included development of Feasibility Study, Proposed Plan, and Decision Document to clean up groundwater impacted by chlorinated hydrocarbons in complex groundwater flow regime consisting of saprolite and fractured igneous/metamorphic rock.

Groundwater Remedial Investigation and Action Support at Former York Naval Ordnance Plant
York, PA / USACE Baltimore Hana is currently supporting this groundwater investigation and remediation. The site was challenging with presence of dense non-aqueous phase liquids and a strongly heterogeneous karst environment. Hana provided guidance on development of representative conceptual site models and selection of final remedies.

Environmental Remediation Services Tobyhanna Army Depot (TYAD)
Tobyhanna, PA / USACE Philadelphia Hana has been tasked with preparing the Accident Prevention Plan (APP), Site Safety and Health Plan (SSHP), Uniform Federal Policy for Quality Assurance Project Plans (UFP-QAPP) for five sites, as well as performing any necessary Remedial Action – Operations (RA-O) and Long-Term Management (LTM). At one site, Hana will provide groundwater sampling to define current status of the dissolved plume (metals and solvents), perform a data gap investigation and risk assessment, and prepare a FS, PP, and DD.

Remedial SI Addendum for 12 AOCs, Fort Pickett Army National Guard Maneuver Training Center
Blackstone, VA / USACE Louisville Hana is supporting ARNG at Fort Pickett to complete additional work at 12 AOCs to supplement the original Site Investigation. Project activities included groundwater sampling, DPT investigation to evaluate thickness of iron PRB, sub-slab and indoor air sampling of occupied building, source zone investigation utilizing membrane interface probe (MIP) at over 100 locations. A new source area was identified and the existing PRB was determined to no longer be effective at remediating groundwater contamination.

Cameron Station Five-Year Review Technical Support
Alexandria, VA / USACE Baltimore Hana was contracted to evaluate the vapor intrusion (VI) pathway assessment study at the 164-acre former U.S. Army post Cameron Station. The work was in support of the initial Five-Year Review (FYR) Report being prepared by USACE Baltimore District for the Army Headquarters' Base Realignment and Closure Division (BRAC). The FYR addresses the ongoing remedy for groundwater at the site. The COCs are trichloroethene and the related cVOCs.

US Marine Corps Range Environmental Vulnerability Assessment (REVA) Program Actions *USMC Installations | NAVFAC Atlantic*
Hana is providing technical support to AECOM for implementation of the USMC's operational range assessment program (REVA). Hana is part of a team assessing use of USMC ranges to ensure munitions constituents (MC) are not migrating off range at concentrations that present a risk. Evaluations consider MC sources, transport pathways, and receptors.

Former Cat Island / Wood Island Bomb Target Surface Sweep *MCAS Cherry Point, NC | NAVFAC Mid-Atlantic*
Hana has been retained by the Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic to provide munitions response support at former Marine Corps Bomb Target (BT)-2. This offshore target complex was used for decades for air-to-ground training and is currently a Military Munitions Response Program (MMRP) Site. Hana provides periodic removal of Material Potentially Presenting an Explosive Hazard (MPPEH) as sea level rise causes erosion and subsequent exposure of buried MPPEH. The project includes both terrestrial and underwater UXO hazards.

Operational Range Clearance and Range Conversion to Reduced Visibility Landing Zone (RVLZ) *Marine Corps Base Camp Lejeune, Jacksonville, NC | NAVFAC Mid-Atlantic*
Hana's experience in Operational Range sustainment projects was a major factor in NAVFAC Mid-Atlantic's decision to retain Hana for a 25-acre range conversion project at MCB Camp Lejeune, NC. The goal of the project was to remove MPPEH from the near surface soils of the range to minimize foreign object debris (FOD) strikes to aircraft during operations and to remove subsurface UXO. Hana's approach included excavating and screening the top foot of soil on site, followed by Digital Geophysical Mapping (DGM) of the site and removal of remaining single point anomalies and where necessary, large scale excavation of saturated high density anomaly areas an additional 2 feet below ground surface (bgs).