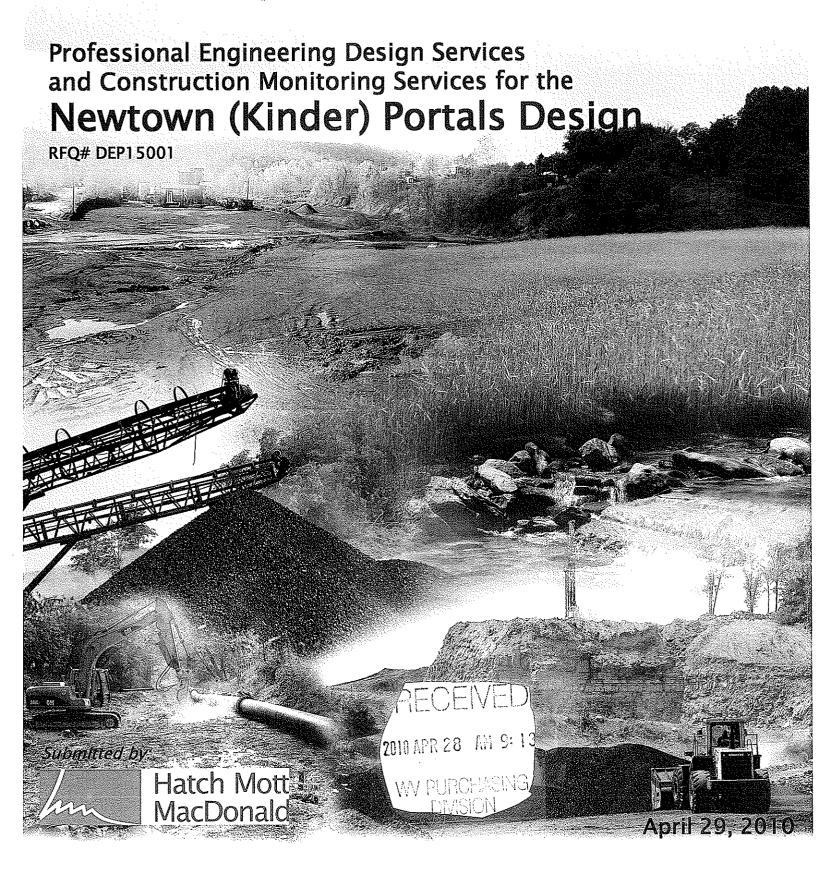
Submitted to:



Expression of Interest





Date: 4/29/10



To:

Mr. Chuck Bowman, WVDEP

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If enclosures are not as noted, please notify us at once



for Professional Engineering Design Services and Construction Monitoring Services for the Newtown (Kinder) Portals Design

RFQ # DEP15001





RFQ COPY

TYPE NAME/ADDRESS HERE

Hatch Mott MacDonald

Morgantown, WV 26508

2601 Cranberry Square

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

DEP15001

RFQ NUMBER

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*******ADDRESS:CORRESPONDENCE TO ATTENTION OF

CHUCK BOWMAN 304-558-2157

ENVIRONMENTAL PROTECTION DEPARTMENT OF

601 57TH STREET SE CHARLESTON, WV

OFFICE OF AML&R

25304

304-926-0499

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STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE Hatch Mott MacDonald Vendor's Name: Authorized Signature State of West Virginia County of Monongalia Taken, subscribed, and sworn to before me this My Commission expires AFFIX SEAL HERE





Cover Letter

Section 1 - Corporate History & Experience

Section 2 - CCQQ - Attachment "B"

Section 3 - RPEM - Attachment "C"



2601 Cranberry Square Morgantown, WV 26508 T 304.212.4390 F 304. 594.2814 www.hatchmott.com

April 29, 2010

Mr. Chuck Bowman, Buyer Supervisor West Virginia Department of Environmental Protection Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

RE: RFQ # DEP 15001

Expression of Interest for Professional Engineering Design Services and Construction Monitoring Services for Newtown (Kinder) Portals Project Mingo County, WV

Dear Mr. Bowman:

Hatch Mott MacDonald (HMM) is pleased to submit this proposal to provide design, mapping and construction monitoring services for the West Virginia Abandoned Mine Lands (AML) and Reclamation Program. This project's focus on reclamation design and related services is a principal area of expertise within our firm.

With a lineage stretching back over a century, involvement in the design and construction of ambitious projects and a multi-disciplined staff with comprehensive engineering skills, HMM possesses the practical knowledge and experience needed to meet the technical challenges of any given project. Our approach is strictly client focused with a corporate commitment to engineering excellence. HMM provides services for all aspects of engineering projects, from feasibility studies and surveys through design, to project and program management, construction management and supervision, start-up and operations.

HMM has targeted West Virginia, and specifically the Abandoned Mine Lands discipline as a strategic area of focus for our business. In order to provide an exceptional service and product, we have hired veteran staff with specific experience with the Abandoned Mine Lands Program. Our Morgantown and Charleston offices have several staff members that collectively have more than 100 years of direct design and management experience with AML design projects of all kinds. Our experience includes successful projects with numerous state programs including WVDEP. Many of these staff members have worked together on AML designs and mining related issues continuously for the past 18 years and have collaborated to produce numerous award-winning projects including an Office of Surface Mining national award in 2003.

This Expression of Interest submittal relates specifically to reclamation design, a core competency of HMM. Our management staff and design leaders have worked on various AML



design projects for the WVDEP. These projects include mine fires, mine seals, bat gates, mine subsidence, underdrains, stream mitigation, hydraulic studies, AMD treatment, refuse reprocessing, refuse fires, and slope or streambank stabilization. At least five different members of our staff have various levels of Natural Stream Channel Design Certification (Levels I-IV). We are presently providing stream remediation and impoundment remediation to our clients.

A variety of project briefs, as well as our AML and Related Project Matrix, have been included in this submittal to demonstrate how HMM has successfully completed projects similar to this project as well as larger and more complex water-related projects.

Having successfully completed projects across a wide range of sizes and complexities has demonstrated that we have the experience to provide the appropriate project management approach for each project. HMM maintains a strong corporate QA/QC philosophy for all our work, illustrated by the fact that we are ISO 9001:2000 certified.

HMM opened our Morgantown, WV office in July 2006 and currently employs a total staff of 44 people. We also opened a Charleston, WV office in the spring of 2009 to better serve WVDEP-AML and southern West Virginia. This office is being managed by Gary Facemyer, P.E., a veteran AML design manager for the past 20 years. The Charleston office is presently providing surveying, design, and drafting services, while operating as a single business unit with our Morgantown office to share our extensive experience and vast resources.

Our in-house capabilities include civil, mechanical, and mining engineers, CAD designers, geologists, environmental scientists, biologists, and other field staff. This office is strategically located to be able to easily service this project. In addition to HMM's highly qualified staff, we have invested significant resources to make state-of-art technology and tools available to our staff. We have over 20 Trimble GPS units that are used by our field staff on a regular basis to support other clients. We have also invested in new large format plotters and scanners to give our staff cutting edge technology to provide the highest quality deliverables possible.

We appreciate the opportunity to submit this Expression of Interest and look forward to establishing a successful working relationship. Please contact myself or another member of our staff with any additional questions you may have.

Very truly yours,

Hatch Mott MacDonald

Richard L. Steinhart, PE

Vice President

T 412.497.2910 F 412.497.2940 richard.steinhart@hatchmott.com

Timothy M. Rice Senior Associate

T 304.212.4388 F 304.594.2814 timothy.rice@hatchomott.com

[corporate history & experience]



Corporate History & Experience

INTRODUCTION

With engineering design experience extending over a century, our involvement in the design and construction of many of the most ambitious infrastructure projects in the world has prepared our multi-disciplined staff with the comprehensive engineering skills needed to meet the challenges of any project. Hatch Mott MacDonald (HMM) possesses the practical knowledge and specific experience needed to meet the technical challenges of any given project. Using our client-focused approach—with a corporate commitment to engineering excellence, HMM provides a full range of services for all aspects of engineering projects. Performing site investigations or feasibility studies, providing surveys or designs, developing project or program management systems, or conducting construction management and supervision, HMM is prepared to reliably and professionally serve its clients to satisfy any role or task required.

LOCAL OFFICES

HMM is headquartered in Millburn, New Jersey and has many offices throughout North America. Regionally, our offices are located at:

405 Capitol Street	2601 Cranberry Square	Gateway View Plaza
Suite 601	Morgantown, WV 26508	1600 West Carson Street
Charleston, WV 25301	T 304.212.4390	Pittsburgh, PA 15219
T:304.356.3010	F 304.594.2814	T 412.497.2900
F: 304.357.9222		F 412.497-2901

CONSULTING AREAS

The resources of HMM are available through the following consulting areas:

- Construction Engineering Services
- Contract Operations
- Environmental Compliance & Remediation
- Environmental Site Assessment & Remediation
- Geographical Information Systems
- Hazardous Waste Management
- Hydraulic Infrastructure Evaluation & Rehabilitation
- Hydrogeological Services
- Industrial Wastewater Management
- Information Technology & Management
- Mining Environmental Services
- Municipal Engineering and Planning
- Pipeline Services
- Rails-To-Trails Projects
- Recreational Facilities
- Recycling/Solid Waste Management
- Site Development Engineering
- Storage Tank Management
- Stormwater & Watershed Management
- Transportation Engineering
- Wastewater Engineering and Management
- Water Supply Management



- Wetland / Ecological Studies
- Natural Stream Design
- Stream Mitigation

STAFFING

Hatch Mott MacDonald was formed as a joint venture between Hatch Associates of Canada, a leading design engineering firm, and Mott MacDonald, headquartered in London, an infrastructure and education consulting engineering firm. The combined resources of Hatch Associates and Mott MacDonald offer a worldwide engineering staff of over 20,000 people. In 2001, HMM acquired the environmental consulting firm of Killam Associates to offer water, wastewater and environmental services throughout North America. Our total US staff is now approximately 1,800 engineers, scientists and technical support personnel.

MANAGEMENT STRATEGIES

HMM uses the "Project Team" approach to efficiently manage and complete projects on time and within specified budgets. A Project Manager directs the team and interfaces with the client to ensure an uninterrupted flow of information. Capable managers draw upon the versatile personnel at HMM to provide pertinent technical knowledge relative to a particular project.

Hatch Mott MacDonald's engineering professionals are fully supported by extensive computer resources (CADD, graphics, and an Information Technology staff), and highly trained field crews for surveying and environmental sampling and monitoring.

From the analysis stage to project implementation, the professional staff of HMM provides clients with cost-effective engineering and planning solutions for their environmental problems. HMM's outstanding reputation is based upon dedicated service to clients and demonstrated technical abilities.

Hatch Mott MacDonald is proud of its established reputation, which is based on efficient project management, technical expertise, and knowledge of regulatory requirements. These features are reflected in HMM's success at maintaining long-term client relationships. Experienced staff and an organizational approach make HMM extremely competent in meeting a client's needs, now and in the future.

The Charleston office is currently staffed to provide one design team with the Morgantown office able to provide four to five different design teams simultaneously. These teams generally consist of a Project Engineer and the necessary design drafting and support staff.

EXPERIENCE AND QUALIFICATIONS

Hatch Mott MacDonald (HMM) is a full-service consulting engineering firm offering both public and private clients a complete range of services from



Corporate History & Experience

Page 3

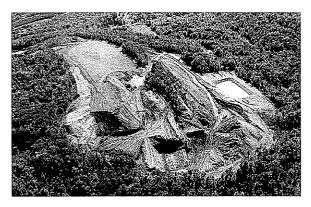
conceptual, feasibility/ planning studies and environmental assessment through preliminary and detailed design to procurement, construction engineering inspection and project and construction management services, as well as operations and maintenance. Headquartered in New Jersey, HMM has hundreds of staff located in the northeast and Mid-Atlantic regions. More than 1,800 employees in 59 offices throughout the U.S. and Canada will support the local staff. This project will be performed from our Charleston, WV office with some technical support from the Morgantown, WV office if necessary.

Our resources in the Appalachian Coal region have grown steadily over the past few years. HMM's focus on mining services has led to a staff of over 50 individuals in this service area. More specifically, the Charleston and Morgantown offices have over 40 staff members dedicated to the mining and energy service area, including engineers, geologists, biologists, scientists, and support staff. This growth is attributed to our corporate commitment to the industry and the values established by HMM. Hatch, one of our parent companies, has been in business for 50 years and focuses on mining services on an international level.



Mining Environmental Services

HMM offers a full spectrum of mining and mining-related environmental and design engineering services. Successfully completed projects range from reserve analyses, permitting and feasibility studies to complex mining and reclamation plans for surface and underground mining installation, prep plants and refuse handling facilities. Versatility is demonstrated by a proven ability to work with large and small operators. Personnel are accustomed to communicating effectively with both multi-department international companies and sole proprietors.



Surface Mining

- Surface Mining Permits
- Auger Mining Permits
- Feasibility Studies
- Land Reclamation & Remediation
- Permit Transfers
- Pre-Blast Surveys
- Acid Mine Discharge (AMD) Remediation

Underground Mining

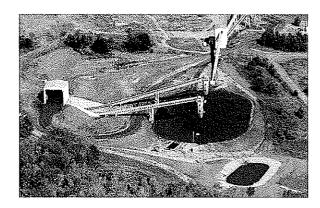
- Deep Mine Permits
- Mine Design & Mapping
- Ventilation Plans
- Subsidence Plans
- Surface Support Plans
- Air Shaft Design & Coordination
- Incidental Boundary Revisions (IBR)
- Pre-Subsidence Surveys

Support Facilities

- Preparation Plant Permits
- Coal Yard & Loadout Permits
- Refuse Pile Reprocessing Permits
- Site Planning
- Air Quality Permits
- Coal Refuse/Fly Ash Permits
- Coal Refuse/Fresh Water Impoundments
- Portal Facilities Design & Construction Management

Mine Planning

- Geological Exploration
- Reserve Studies
- Economic Evaluations
- Aerial Mapping
- Drilling
- Environmental Site Assessment
- Natural Stream Design
- Stream Mitigation



Professional Surveying

- Underground Coal Mine Surveys
- Stockpile Volumetric Surveys
- Construction Surveys
- Boundary Retracement
- Topographic Surveys
- Horizontal & Vertical Control Networks
- GIS/GPS Surveys

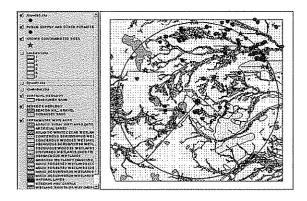
Operations Support

- Small Operator Assistance Program (SOAP) Preparation
- Thermal-graphic Equipment Analyses
- Machine & Equipment Appraisal & Analyses
- Conveyor System Analyses
- Electrical System Analyses



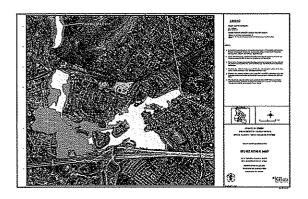
Geographic Information Systems

Over the last decade, HMM has responded to its clients' growing needs for Geographical Information System (GIS) through investments in software, hardware and employee training. The ability of GIS to integrate central databases with mapping that can be shared throughout an organization, is making this information technology a standard for government agencies, utilities and private companies. HMM provides a full range of GIS services in the areas of: water/wastewater utility, stormwater utility, municipal government, hydrology and hydraulics, and natural resources.



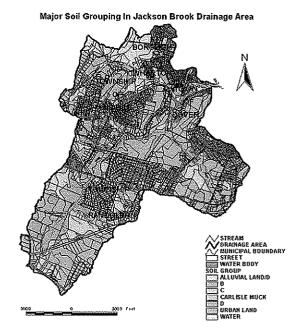
Software Applications

- ARC/INFO©
- ArcView©
- ArcCAD
- ArcFM
- AutoCAD/AutoCAD Map
- Microstation



Software Capabilities

- Infrastructure Modeling
- Document Management
- Hydrologic/Hydraulic Modeling
- Groundwater Modeling
- Coordinate Geometry (COGO)
- Geographical Positioning Systems (GPS)
- Digital Elevation/Terrain Modeling
- Integration of Third Party Modeling Software
- Internet/Intranet



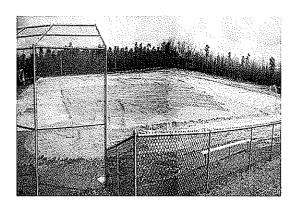
Hardware Resources

- Hewlett-Packard 1055 & 755 Design Jet Plotters
- Dell Precision Workstation (750 MHz Processors with 256K RAM)
- Network through a 6300 Dell PowerEdge Server
- RAID-5 Array for Data Storage
- XEROX 8830 Scanners & Printers



Construction Engineering Services

HMM's established reputation in providing construction observation and project management services is based upon the firm's experienced professionals' technical expertise and knowledge of the construction field. Interaction with the firm's various design teams is undertaken so that the latest technologies will be implemented with the highest efficiency. State-of-the-art laser and computerized surveying equipment and techniques are employed for data gathering, processing, reporting and construction control.



Facilities

- Wastewater & Water Treatment Facilities
- Mining Facilities
- Biosolids Removal Facilities
- Pumping Stations
- Dams & Dikes
- Materials Recycling Facilities
- Solid Waste Transfer Stations
- Vehicle Maintenance Facilities
- Parking Garages
- Storage Facilities
- Airport Hangars & Terminals
- Office & Administration Buildings
- CSO & SSO Rehabilitation
- Sanitary Sewers & Water Mains
- Recreational Facilities

Project Management

- CPM Scheduling Review
- Cost Controls
- Shop Drawing Review
- Payment Requests Processing
- Change Order Management
- Record Plan Preparation
- Claims Avoidance/Dispute Resolution
- Progress Meetings
- Information Management



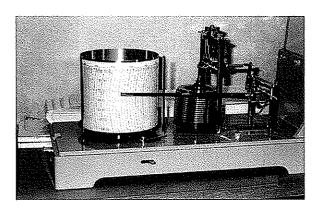
Resident Engineering

- Construction Surveys
- Construction Observation
- Concrete Testing & Inspection
- Safety Monitoring



Hydrogeological Services

HMM's hydrogeological specialists are employed on a wide range of projects, from small urban properties to entire watersheds. The majority of our staff holds advanced degrees and are registered professionals. They evaluate and develop groundwater resources; delineate contamination and predict impacts on human and ecological receptors; provide the technical basis for the design of subsurface wastewater disposal, construction dewatering and aquifer remediation systems; generate hydrogeologic models, frame computer simulations and perform statistical analyses for risk assessments and resource prospecting; provide full technical assistance in permitting in all these areas; provide peer review for the work of outside hydrogeologists; advise legal counsel and provide expert testimony.



Groundwater Resources

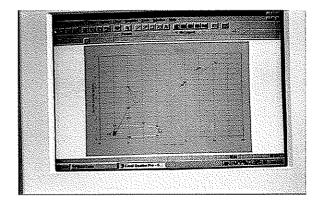
- Resource Evaluations
- Water Allocation Permits
- Well-Head Protection Area Delineation
- Diversion Impact Assessments

Dewatering

- Dewatering System Design
- Temporary Water Allocation Permits
- Dewatering Permits-by-Rule

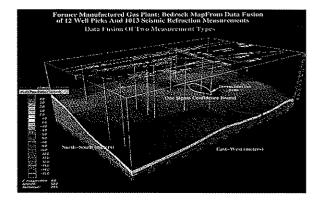
Discharge to Groundwater

- Hydraulic Mounding Analysis
- Discharge to Groundwater Permits
- Dilution Modeling



Remedial Design

- Plume Control
- Treated Wastewater Disposal System Design
- Contaminant Fate & Transport Modeling
- Technical Support for Natural Remediation
- Aguifer Reclassification
- Ground Water Chemistry
- Expert Testimony
- Peer Review



Landfill Investigations

- Leachate Generation & Control Modeling
- Landfill Gas Venting System Design
- Aguifer Impact Assessments

Aquifer Investigations

- Pumping Test Design & Analysis
- Aquifer Modeling
- Simulation of Groundwater Flow
- Aguifer/Surface Water Interaction Analyses

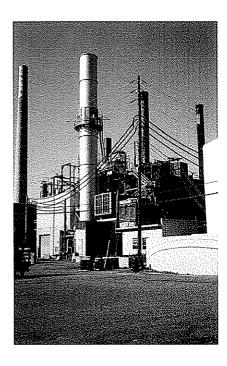


Environmental Compliance Services

Effective management of ongoing environmental compliance issues is often difficult, especially as many companies continue to cutback on non-production personnel. As a result, many EH&S managers find themselves overloaded with multiple tasks. HMM can be a valuable resource that EH&S managers can use to more effectively and efficiently manage their company's environmental obligations, stay up-to-date with current state and federal regulatory trends, identify areas where cost-effective waste reduction measures can be implemented, and receive an objective third-party review of the company's environmental compliance level and/or liabilities. HMM can add value to the company's bottom line and help the management team to refocus resources on product quality and customer service, while staying abreast of regulatory changes and compliance issues.

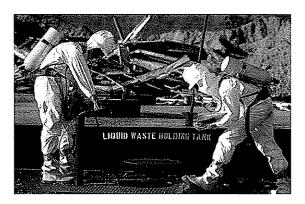
Periodic Reporting

- Annual SARA Reports (312/313)
- Annual Air Emission Reports
- Monthly DMR Sampling / Reports
- POTW Pretreatment Sampling / Reports
- Hazardous Waste Biennial Reports
- Residual Waste Biennial Reports
- Chemical Analysis of Wastes
- Source Reduction Strategies
- Storage Tank Registrations / Inspections



Air Quality

- RFD Applications
- Plan Approval Applications
- Title V Permit Applications
- PSD / Permit Modifications
- System Testing / Balancing

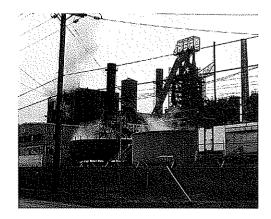


Contingency Planning

- Environmental Compliance Audits
- SPCC Plan Preparation / Recertification
- PPC Plan Preparation / Recertification
- Environmental Emergency Response Plans
- Storm Water Pollution Prevention Plans
- Hazard Communication Plans
- Risk Management Plans
- Training

Wastewater Management

- NPDES Part I/ Part II Permit Applications
- POTW Permit Applications
- Storm Water Runoff Permit Applications
- Treatment Plant Troubleshooting
- Toxicity Reduction Evaluations





Ecological Services

Hatch Mott MacDonald provides a wide range of scientific and environmental expertise needed to successfully address complex environmental problems and to design practical, cost-effective solutions. HMM is committed to assisting its clients by guiding projects through both the regulatory process and the construction phase utilizing cost effective design and engineering while protecting and enhancing the environment. We have provided ecological services to many types of clients including public and private utilities, state and municipal authorities and agencies, commercial site developers, energy companies, residential and other private property owners, municipalities and institutions. Our scientists and field technicians have the necessary technical expertise required to design and execute ecologically-focused surveys and studies and the capability to set a strategic course of action for projects to be successfully licensed and permitted at all regulatory levels.

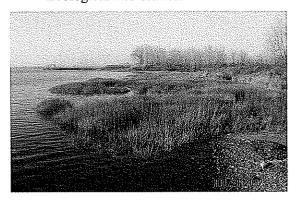


Regulatory Compliance

- Agency Consultation and Coordination
- Ecological Resources Policy Development
- Environmental Audits
- Environmental Compliance Inspection
- Environmental Impact Statements and Assessments
- Environmental Monitoring
- Environmental Risk Assessment
- Expert Testimony and Litigation Support
- Federal, State and Local Permitting

Environmental Technology

- Bioengineering
- Bioremediation and Phytoremediation
- Engineered Wetlands for Water Treatment
- Ecological Restoration



Ecological Resource Surveys/Studies

- Biota and Ecosystem Baseline Surveys
- Ecological Resource Management
- Ecological Risk Assessment
- Habitat Evaluation and Assessment
- Rare, Threatened and Endangered Species Assessment
- Soils, Sediments and Water Quality Investigations
- Wetland Delineation and Assessment
- Wetland Mitigation, Replication and Monitoring



Other Related Services

- Erosion and Sedimentation Control Plans
- GPS Survey
- GIS Applications
- Stormwater Management Plans
- Vegetation Management Plans
- Landscape Planting Plans



Environmental Site Assessment and Remediation

For nearly two decades, HMM has performed Phase I/Phase II environmental site assessments at hundreds of sites. They have consulted with multi-national and local buyers of property, assisting them with their due diligence efforts prior to acquisition of new companies or properties. On properties where contamination is present in excess of acceptable levels, HMM has designed and implemented remediation measures. Such remediation projects have been completed under a variety of environmental programs, including CERCLA (Superfund), RCRA Corrective Action, ISRA, Pennsylvania Act 2 and other state Brownfield programs. Projects have been completed on numerous sites that have soil and/or groundwater contaminated with chlorinated solvents, petroleum from leaking storage tanks, heavy metals, PCBs, and other organic compounds. Our design engineers are specialists in groundwater collection and treatment, waste removal and facility closure design, and our field staff is fully equipped and instrumented, and appropriately trained and medically monitored.



Environmental Site Assessments

- Phase I Site Assessments (ASTM)
- Transaction Screening Assessments
- Phase II Site Investigations
- Geophysical Surveys
- Monitoring Well Installations/Borings
- Soil, Air & Water Sampling
- Waste Sampling & Characterization
- Groundwater Flow Modeling
- Contaminant Transport Modeling
- QA/QC Plans



Remedial Design

- Feasibility Studies / Alternatives Analysis
- Physical/Chemical Treatment
- Biological Treatment
- Thermal Treatment
- Recovery Well Designs
- Soil Vapor Extraction
- Air Sparging
- Hydraulic Containment
- Closure Plans
- Pilot & Demonstration Programs
- Cost Estimating
- Risk Based Corrective Action
- Natural Remediation Compliance Plans
- Permitting



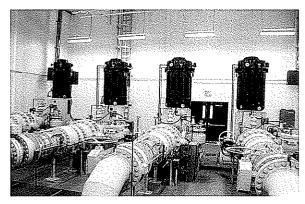
Site Remediation

- Contract Administration
- Construction Oversight Services
- System Operations & Maintenance
- Closure Reporting
- Post-Remediation Monitoring
- Expert Testimony



Water Supply Management

HMM has demonstrated a unique combination of talent and experience in meeting hydraulic and water supply engineering challenges for over 60 years. The firm has demonstrated particular strength and developed broad experience in water system planning, hydraulic analysis, design, rehabilitation and implementation. We can provide a full range of water supply management services including hydraulic analyses, planning and feasibility studies, preliminary and final designs, preparation of contract drawings and specifications, construction cost estimates, time schedule outlines, bid analyses, complete resident engineering services during project construction and development of operation and maintenance manuals, as well as start-up assistance and operator training.

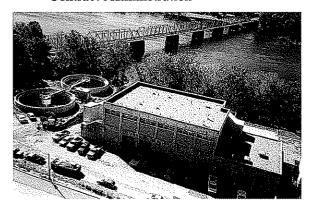


Planning

- Master Planning for Water Supply & Treatment
- Resource Management
- Resource Inventories
- Grant & Loan Application Assistance

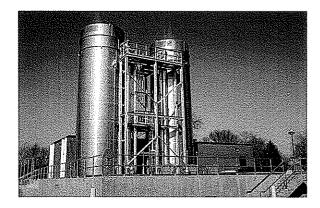
Construction Services

- Field Services
- Liaison Representation
- Construction Management
- Contract Administration



Investigative Studies

- Hydraulic Analysis
- System Pressure & Fire Flow Analysis
- Water Quality Treatability
- Rate Studies
- Feasibility Studies
- Valuations
- Expert Testimony



Design

- Water Supply
- Water Treatment
- Air Stripping
- Pumping Stations
- Transmission & Distribution Pipelines
- Storage Facilities
- Rehabilitation
- Treatment Plant Optimization & Management

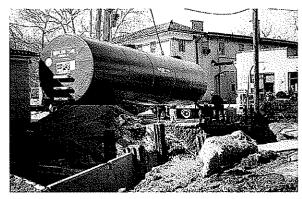


Storage Tank Management

HMM provides storage tank management through a highly trained staff of professional geologists and engineers. This staff can investigate, analyze and make recommendations to our clients on tank management plans, tank upgrades and/or new tank designs. All staff are familiar with current state and USEPA rules and regulations and can expertly assist our clients in compliance with current standards. Our design team is experienced in double-walled steel or fiberglass tanks as well as tank upgrades in compliance with the regulations.

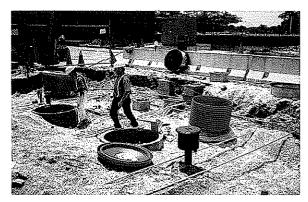
Evaluation of Existing Tank Systems

- Registration, Permitting & Release Reporting
- Integrity Testing
- Abandonment In-Place
- Removals & Disposals
- Upgrades & Modifications per Federal Regulations



Design of New Tank Systems

- Corrosion Protection Systems
- Double-Wall Steel to 20,000 Gallons
- Fiberglass to 6,000 Gallons
- Vault or Below Ground Installations
- Above Ground Concrete
- Dispensing Units for Motor Fuel
- Multi-fuel Tank Partitioning for Gas & Diesel
- Instrumented Leak Detection Systems
- Canopies & Islands
- Specialized #6 Heating Oil Design
- Specialized Aviation Gasoline Designs
- Bid Plans & Specifications
- State & Local Construction Code Permitting
- Construction Management
- System Start-up
- Fuel & Fleet Management Systems



Tank Management Plans

- Evaluation of Existing Systems through Data Searches, Interview & Site Surveys
- Determination of Compliance/Non Compliance with Federal/State Regulations
- Determination of Future System Needs
- Determination of Tank Upgradability
- Scheduling Removals/Abandonment/ Replacements
- Cost Estimating
- Recommendation of Sequenced Compliance



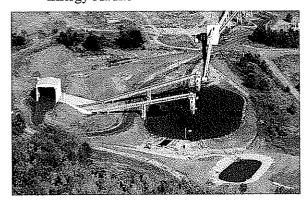


Municipal Engineering Services/ Public Works Management

As a result of the practical experience developed during more than six decades of engineering consultation, and through the utilization of the talents of staff experienced in engineering, planning and public works management, HMM can draw upon a vast depth of resources to provide consulting services for its public clients, particularly in the Public Works Area. HMM's multiple office locations, coupled with the diverse capabilities of the firm's experienced staff of certified public works managers, allow HMM to provide the Public Works Management service needed to meet the full range of the day-to-day demands of local government.

Master Planning, Design, Budget & Implementation

- Municipal Improvements
- Drainage & Flood Control Facilities
- Wastewater Collection, Pumping & Treatment Facilities
- Roadway Construction, Resurfacing & Reconstruction
- Intersection & Signalization Improvements
- Water Supply Treatment, Storage & Distribution Systems
- Beach Erosion Control, Marine & Coastal
- Structures & Flood Zone Management
- Parks, Golf Courses & other Recreational Facilities
- Solid Waste Management & Recycling
- Building Design Services
- Land Surveying
- Tax Map Revisions & Street Address Map Revisions
- Energy Audits



Advisory Consultation

- Governing Body
- Planning Board
- Board of Adjustment
- Board of Health
- Liaison to Municipal Departments, Boards & Commissions
- Liaison to County, State & Federal Agencies

- Liaison to Financial Institutions
- Liaison to Legal Division & Expert Testimony
- Public Participation Programs



Public Works Consultation

- Underground Storage Tanks
- Sewage Collection, Pumping & Treatment Facilities
- Water Distribution, Supply, Storage, Treatment & Pumping Facilities
- Streets & Roads
- Stormwater Collection, Detention & Retention Facilities
- Solid Waste & Recycling
- Vehicles & Equipment
- Snow & Ice Removal
- Emergency Crisis Planning
- Complaint Processing
- Construction Phase Engineering
- Survey
- GPS/GIS Plans

Parks & Recreation

- Capital Inventory
- Park Maintenance Program
- Field Utilization Surveys



Municipal Engineering Services/ Public Works Management (cont.)

Street Management Program

- Pavement Management Programs
- Maintenance & Repair Programs
- Preparation of Street Cleaning Programs



Snow Plowing and Ice Control

- Comprehensive Snow Plowing Plans
- Ice Control Programs
- Equipment

Stormwater System Maintenance

- Cleaning Programs
- Routing Maintenance Programs
- Planning for Managing & Upgrading

Sanitary Sewer System Maintenance

- Routine Cleaning Programs
- TV Inspection
- Manpower Training

Fleet Management

 Planning that Addresses Ownership, Use, Maintenance, Repair & Replacement

Facility Management Programs

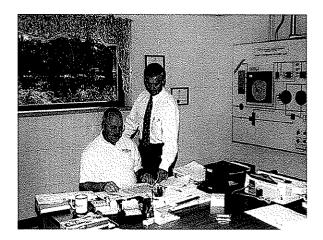
• Review Staff Capabilities Relative to Facility Maintenance, Upkeep & Cleaning

Capital Budgeting and Planning

- Review of Existing Capital Plans
- Preparation of Single or Multi-Year Capital Budgets
- Review of Financing Options

Public Works Management

- Perform Management Review of Existing Operations
- Prepare Plans for Staffing & Operational Improvements
- Budget Review & Recommendations





Pipeline Services

HMM has demonstrated experience in virtually all aspects of the natural gas transmission pipeline industry from routine operation and maintenance related matters to design and construction. The firm has successfully completed a wide variety of projects ranging from relatively small scopes of work through major multi-state construction projects. It is this understanding and our extensive resources that enable HMM to quickly and effectively respond to clients' needs, regardless of project size or scope. Our unique geographic office locations further enable us to quickly respond to the needs of the interstate natural gas pipeline industry. Our offices are located in the vicinity of many strategic pipeline hubs. HMM is unique in the industry in its ability to provide our clients with a wide variety of services including: surveying, planning, design, construction phase services and environmental compliance. As a result of our experience, we also understand the importance of close communication throughout any project undertaken.



Project Management

- Feasibility Studies
- Schedule Control
- Project Organization & Staffing
- Alignment & Progress Meetings
- Project Status Reports
- Scope Change Management

Pipeline Engineering

- Field Engineering
- Construction Work Space
- Route Selection & Realignments
- Horizontal Directional Drilling
- Road & Highway Crossings
- Wetland & Waterbody Crossings

Pipeline Surveying

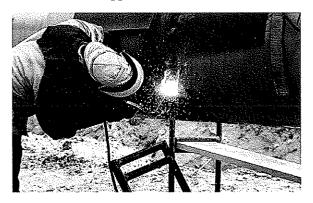
- Preliminary Survey/Alignment
- Aerial Photography & GPS
- Topographic Surveys & Profiles
- Fee Property Surveys
- Existing Conditions Surveys
- Construction Re-Stake
- Record Plan Survey

Construction Services

- Construction Management
- Construction Engineering/Survey
- Resident Observation

Environmental/Cultural Resources

- Agency Consultation & Coordination
- Field Investigations & Surveys
- Wetland Delineation
- Endangered & Threatened Species
- Cultural Resources
- Erosion & Sediment Control
- Revegetation & Maintenance
- Wetland/Water Body Construction Procedures
- Stormwater Management Plans
- SPCC & Mitigation Plans
- Air Quality Monitoring & Permitting
- Federal, State & Local Permitting
- FERC Applications & Coordination



Pipeline Drafting

- Alignment Sheets
- Topographic Maps/Aerial Photographs
- Permit Application Drawings
- Land & Condemnation Plats
- Graphics & Presentation Drawings
- Record Plans

Operation and Maintenance Services

- Pipeline Location & Staking
- Anomaly & Dent Location
- Exposed Pipe Remediation
- Surveying, Drafting, Design, Engineering, Environmental & Permitting

WEST	VIRGINIA DEPARTMENT	F ENVIRONMENTAL PROTECTION	ROTECTION Attachment "L
PROJECT NAME	DATE (DAY, MO	YEAR)	
Newtown (Kinder) Portals Design	4/29/10	- Anna Anna Anna Anna Anna Anna Anna Ann	16-1006700
1. FIRM NAME Hatch Mott MacDonald LLC	2. HOME OFFICE BUS 27 Bleeker Street Milburn, NJ 07041	SINESS ADDRESS	3. FORMER FIRM NAME Hatch Associates Consultants, Inc. (Est. 1955) Mott MacDonald Group (Est. 1902)
5.	STABLISHED (YEAR)	6. TYPE OWNERSHIP Individual Corporation Partnership Joint-Venture	ion (Disadvantaged Business nture Enterprise)
7. PRIMARY AMI DESIGN OFFICE: ADDRESS/2601 Cranberry Square. Morgantown. WV	ESS/ TELEPHONE/ PERSON I	IN CHARGE/ NO. AML DESIGN 0, Timothy M. Rice, Area Ma	GN PERSONNEL EACH OFFICE Manager/ Morgantown - 44
S OF PRINCIPAL OFFICERS OF	SERS OF FIRM	. NAME, TITLE, &	3 NUMBER - OTHER PRINCIPALS
Richard L. Steinhart, PE, Senior V 9. PERSONNEL BY DISCIPLINE	Vice President	Timothy M. Kice, Morgantown	own Urice Area Manager (304)/212-4390
- 26ADMINISTRATIVE - 4	4ECOLOGISTS	- TLANDSCAPE ARCHITECTS	ECTS — 65STRUCTURAL ENGINEERS
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	OECONOMISTS SELECTRICAL ENGINEERS	<pre>— 23MECHANICAL ENGINEERS — 2MINING ENGINEERS</pre>	***************************************
- 273 CADD OPERATORS - 1 - 8 CHEMICAL ENGINEERS - 2 - 216 CIVIL ENGINEERS - 3	17ENVIRONMENTALISTS 26ESTIMATORS 30GEOLOGISTS	SRAMI SRS: PARY	IETRISTS — <u>0</u> OTHER URBAN/REGIONAL ENGINEERS
— 142 200 0 </td <td><u>0</u>HISTORIANS <u>1</u>HYDROLOGISTS</td> <td>- OSOILS ENGINEERS - OSPECIFICATION WRITERS</td> <td>- 1812TOTAL PERSONNELL</td>	<u>0</u> HISTORIANS <u>1</u> HYDROLOGISTS	- OSOILS ENGINEERS - OSPECIFICATION WRITERS	- 1812TOTAL PERSONNELL
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS *RPES other than Civil and Mining must provide suppor supervise and perform this type of work.	STERED PROFESSIONAL ENGINEES and Mining must provide supplies type of work.	IN PRIMARY OFFICE: ting documentation	that qualifies them to
Rich Steinhart is a WV-PE and is the "Enginee the Morgantown office. Gary Facemyer is a WV manager. Darryl Brogan and Paul Smith are WV both WV-PE's and are available to provide the	"Engineer in Charge is a WV Registered are WV Registered vide the Morgantow	for the Morgantown of Professional Engineer rofessional Engineers office with additional	fice. James Fetty is also a WV-PE in and is the Charleston, WV office located in our Pittsburgh office are technical and professional support.
10. HAS THIS JOINT-VENTURE WORKED TOGETHER	TOGETHER BEFORE?	YES NO N/A	

11. OUT: REY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO Quee, unnaire".	USED.	Attach "AML Consultant Qualification
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Blue Mountain Aerial Mapping 11023 Mason Dixon Highway	Aerial mapping	X Yes
Burton, WV 26362		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
10 Engineering 4980 Teays Valley Road	Geotechnical Drilling/Surveying	X Yes
St. Albans, www.zorr		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Highland Engineering 1426 Memorial Drive	Suiveying	X Yes
Oakland, MD 21550		No
NAME AND ADDRESS	SPECIALTY:	WORKED WITH BEFORE
Pennsylvania Unilling Company 281 Route 30	George Initial Driving	X Yes
Imperial, PA 15126		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Test Boring Services, Inc.	Geotechnical Drilling	3 d X
Scenery Hill, PA 15360		,
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Sturm Environmental Services P.O. Box 650	Laboratory Arialysis	X Yes
Bridgeport, WV 26330-0650		ON.
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Industrial Lab Analysis, Inc. 65 – 36 th Street	Laboratory Analysis	X Yes
Wheeling, WV 26003		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
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. Mine Lands Remediation/Mine Reclamation Enginee

Are your firm's personnel experienced in Abando

Are your firm's personnel experienced in Acid "'ne Drainage Evaluation and Abatement Design?

12

Description and Number of Projects: Our staff has personnel experience of over 50 AML projects related to AMD Design and Evaluation. Our staff has performed watershed analysis, doser design, passive system design, and chemical treatment facility planning.

8

has designed storm water management plans for residential and commercial projects. His expertise is in mine subsidence remediation and design; mine facility Mr. Law is a Project Engineer/Manager for Hatch Mott MacDonald. His experience includes design of AML reclamation plans, permit for 1,000-acre deep mine, barge loading facility, highway entrance permits, mine subsidence evaluations, impoundments, hydrology studies for refuse sites and public water supplies, and analysis; pre-blast surveys; slope stability analysis; geotechnical design; storm water management analysis and design; civil site designs; and commercial and Mr. Rice is experienced in project management, coordination and supervision for permitting, design, drafting, surveying and drilling projects. His expertise is in reclamation design; mining permits; design of acid mine drainage abatement plans; water resources studies; pre/post mining surveys; hydraulic and hydrological analysis; pre-blast surveys; slope stability analysis; geotechnical design; Phase I environmental audits; storm water management analysis and Mr. Rice has also received Levels I - IV of Natural Stream Channel Design Certification. He coordinated mitigation, remediation, and restoration projects for residential inspections. Mr. Law has also conducted floodplain evaluations and construction inspection of commercial properties. Mr. Law has experience in layout and design; reclamation design; mining permits; design of acid mine drainage abatement plans; pre/post mining surveys; hydraulic and hydrological 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete YEARS OF DOMESTIC YEARS OF DOMESTIC WATERLINE DESIGN WATERLINE DESIGN PESPONSIBLE FOR AML PROJECT DESIGN (Furnish compl EXPERIENCE: EXPERIENCE: REGISTRATION (Type, Year, State) REGISTRATION (Type, Year, State) 27 YEARS OF AML RELATED DESIGN YEARS OF AML RELATED DESIGN YEARS OF EXPERIENCE YEARS OF EXPERIENCE EIT, West Virginia project management, coordination and supervision for construction and design of various mining related projects. EXPERIENCE: EXPERIENCE: 27 Mr. Rice presently serves as Area Manager for the Hatch Mott MacDonald Morgantown, WV office. PRINCIPALS AND ASSOCIATE YEARS OF AML DESIGN YEARS OF AML DESIGN design; civil site designs; and commercial and residential inspections. EXPERIENCE: EXPERIENCE: several clients in close proximity to the Morgantown office. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS EDUCATION (Degree, Year, Specialization) Specialization) 23 B.S., 1982 Civil Engineering Level I, II, III, and IV Natural Stream Design, 2004 Brief Explanation of Responsibilities Brief Explanation of Responsibilities NAME & TITLE (Last, First, Middle Int.) (Last, First, Middle Int.) YAL HISTORY STATEMENT OF essentials) ut keep to essentials) Project Engineer, Project Manager Project Engineer/Project Manager EDUCATION (Degree, Year, B.S., 1983 Mining Engineering A.A., 1980 Mining Engineering keep to Rice, Timothy M. NAME & TITLE data but Law, Jeffrey L. PEP dat

13. PER TAL HISTORY STATEMENT OF PR dat ut keep to essentials)	PRINCIPALS AND ASSOCIATE BSPON	OR AML PROJECT DESIGN	(Furnish comple
NAME & TTTIE (Last First, Middle Int.)			- Control of the Cont
	YEARS OF AML DESIGN EXPERIENCE: 2	YEARS OF AML RELATED DESIGN NEXPERIENCE: 122	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 21
Brief Explanation of Responsibilities Mr. Fetty's background is in the Municipal Engineering field. He was the City Engineer for the City of Fairmont, West Virginia for 21 years. He has been a Project Manager for numerous water distribution, storm sewer and sanitary sewer system projects. He has experience in the design, preparation of plans and specifications and construction monitoring for water distribution, storm drainage and sanitary sewer collection system projects.	eering field. He was the City Engineer for, storm sewer and sanitary sewer system ater distribution, storm drainage and sani	was the City Engineer for the City of Fairmont, West Virginia for and sanitary sewer system projects. He has experience in the designators drainage and sanitary sewer collection system projects.	21 years. He has been a gn, preparation of plans and
EDUCATION (Degree, Year, Specialization) B.S., 1982 Civil Engineering	cion)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS National Society of Civil Engineers Water Environment Federation	FIONS	REGISTRATION (Type, Year, State) PE, West Virginia & Pennsylvania	(e)
13. PERSONAL HISTORY STATEMENT OF PE	PRINCIPALS AND ASSOCIATES RESPONSIBLE	FOR AML PROJECT DESIGN	(Furnish complete
7.004/		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE: 7	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities Mr. Rogers has experience in project management, coordination and supervision for construction and design of various mining and geotechnical projects, including transportation, projects, including several AML projects. His experience includes management of one hundred plus geotechnical projects, including several AML projects. His experience includes management of public and private clients. His responsibilities have included schedule and cost control and commercial development, public schools and a variety of public and private clients. His responsibilities have included schedules and cost control and overall submittal quality. He has managed field drilling activities, field classification of soil, rock, field and laboratory safety procedures, a laboratory testing projects, earth program and geotechnical evaluations. Engineering evaluations include foundation recommendations, settlement analysis, slope stability analysis, earth pressure coefficients and report preparation. In addition, Mr. Rogers has served as Project Manager for several construction testing projects.	gement, coordination and supervision for His experience includes management of a variety of public and private clients field drilling activities, field classification of gineering evaluations include foundation rule addition, Mr. Rogers has served as Pro-	Responsibilities ce in project management, coordination and supervision for construction and design of various mining and geotechnical related al AML projects. His experience includes management of one hundred plus geotechnical projects, including transportation, t, public schools and a variety of public and private clients. His responsibilities have included schedule and cost control and He has managed field drilling activities, field classification of soil, rock, field and laboratory safety procedures, a laboratory testing He has managed field drilling activities, field classification of soil, rock, field and laboratory safety procedures, a laboratory testing He has managed field drilling activities, field classification of soil, rock, field and laboratory safety procedures, a laboratory testing al evaluations. Engineering evaluations include foundation recommendations, settlement analysis, slope stability analysis, earth report preparation. In addition, Mr. Rogers has served as Project Manager for several construction testing projects.	ing and geotechnical related ts, including transportation, hedule and cost control and cedures, a laboratory testing slope stability analysis, earth sting projects.
EDUCATION (Degree, Year, Specialization) B.S., 1998, Chemical Engineering	tion)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TIONS	REGISTRATION (Type, Year, State) EIT, West Virginia	te)

ESPONSIBLE FOR AML PROJECT DESIGN (Furnish compl		YEARS OF AML RELATED DESIGN EXPERIENCE: 32 EXPERIENCE: 0
		YEARS OF AML DESIGN EXPERIENCE: 0
13. PEK AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE data but keep to essentials)	NAME & TITLE (Last, First, Middle Int.)	Peter Vaughan Senior Project Manager

Brief Explanation of Responsibilities

clients. He has been the Project Manager for several major drainage study, stream monitoring, regulatory compliance, stream mitigation, stream augmentation, and restoration projects. He also performed studies to determine drainage characteristics and develop a flow model for a reclaimed coal refuse area. Mr. Vaughan is a Senior Project Manager at Hatch Mott MacDonald (HMM). Mr. Vaughan's work has been primarily in the mining area. He has experience in mining design, procurement, engineering, execution, start-up, post audit and compliance, permitting, and mitigation work for many coal mining and energy

EDUCATION (Degree, Year, Specialization)

BS Mining Engineer, 1979

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Board Member and Officer SME- Society for Mining, Metallurgy & Exploration,	ploration,
nc.	
Pittsburgh Geological Society	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furni	SOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furn)

nish complete data but keep to essentials)

	**************************************	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
	YEARS OF EXPERIENCE	YEARS OF AML RELATED DESIGN EXPERIENCE: 32
	de consoniente de la constante	YEARS OF AML DESIGN EXPERIENCE: 7
data hat weith to coordinately	NAME & TITLE (Last, First, Middle Int.)	Chuck Yurchick Project Geologist

Brief Explanation of Responsibilities

permitting activities, hydrologic studies pertaining to surface and under-ground mine activities, geologic and geo-technical drilling projects, natural and man made slope failure and mine subsidence investigations, site development geo-technical evaluations, deep mining in-seam geologic disruption evaluations, bore hole grouting, under-ground mine grouting plans and drilling, management of field operations for exploration and geo-technical projects and property damage evaluations due to geologic hazards. Mr. Yurchick is experienced in project management, coordination and supervision of coal exploration projects, coal and non-coal surface and deep mine

BS, Geo Sciences, The Pennsylvania State University, 1973 EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Society for Mining, Metallurgy and Exploration,	Professional Geologist, 1995, PA
SME of the AIME,	Certified Professional Geologist- AIPG CP
Founding Registered Member of the Society for Mining, Metallurgy and	
Exploration,	
American Institute of Professional Geologists	

nal Geologist- AIPG, CPG-5117

Mr. Facemyer has been responsible for planning, design, permitting, construction management and construction of numerous abandoned mine land reclamation projects over a 20 Mr. Moore has served as a Project Engineer and Task Manager for various water and wastewater conveyance projects. He has an extensive background in year period. Projects included mine portal closures, high wall reduction or elimination, refuse piles, burning refuse, burning seams, landslides, stream restoration, drainage the development and quality control of hydrologic and hydraulic dynamic computer models using various computer programs. He has also generated base YEARS OF DOMESTIC WATERLINE DESIGN YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 32 maps and plan-profile sheets for various infrastructure projects using automated computer methodologies. Mr. Moore also has site design experience including drainage and parking facilities for several different facilities. EXPERIENCE: 8 PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete ESPONSIBLE FOR AML PROJECT DESIGN (Furnish compl Professional Engineer, WV OH PA MD VA KY REGISTRATION (Type, Year, State) REGISTRATION (Type, Year, State) Professional Engineer, 2003, Ohio YEARS OF AML RELATED DESIGN YEARS OF AML RELATED DESIGN Professional Surveyor, WV YEARS OF EXPERIENCE EXPERIENCE 32 EXPERIENCE: 8 EXPERIENCE: YEARS OF This work also included Special Reclamation (bond forfeiture) assessment, water testing, and AMD treatment. YEARS OF AML DESIGN EXPERIENCE: YEARS OF AML DESIGN EXPERIENCE: 20 AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE. EDUCATION (Degree, Year, Specialization)
B.S., Civil/Environmental Engineering, 1998, Pennsylvania State University correction, acid mine drainage, water feasibility studies and water system designs. American Society of Civil Engineers - Past President WV American Council of Engineering Companies/WV WV Society of Professional Surveyors B. S. Civil Engineering WV Institute of Technology 1975 MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS EDUCATION (Degree, Year, Specialization) Brief Explanation of Responsibilities Brief Explanation of Responsibilities 13. PERSONAL HISTORY STATEMENT OF NAME & TITLE (Last, First, Middle Int.) NAME & TITLE (Last, First, Middle Int.) data but keep to essentials) data but keep to essentials) Gary Facemyer, P.E., PS Brian Moore, PE Project Engineer 13. PEK.

AAL	AND ASSOCIATE	GESPONSIBLE FOR AML PROJECT DESIGN (Furnish compl	7)
Tast, Fir	- Annual Property of the Control of		
ərick	YEARS OF AML DESIGN EXPERIENCE: 3	YEARS OF AML RELATED DESIGN YEARS OF DOMESTI: EXPERIENCE: 11 EXPERIENCE: 0	DOMESTIC DESIGN E: 0
Brief Explanation of Responsibilities	THE PROPERTY OF THE PROPERTY O		
Mr. Roderick is experienced in coordination and supervision of cc hydrologic studies pertaining to surface and under-ground mine a exploration and geo-technical projects and property damage eval	rvision of coal exploration projects, coal and bund mine activities, geologic and geo-techn amage evaluations due to geologic hazards.	Mr. Roderick is experienced in coordination and supervision of coal exploration projects, coal and non-coal surface and deep mine permitting activities, hydrologic studies pertaining to surface and under-ground mine activities, geologic and geo-technical drilling projects, management of field operations for exploration and geo-technical projects and property damage evaluations due to geologic hazards.	ties, ons for
EDUCATION (Degree, Year, Specialization)			
Earth Sciences, 1997, California University of Pennsylvania	/Ivania		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS	PALS AND ASSOCIATES RESPONSIBLE	LE FOR AML PROJECT DESIGN (Furnish complete	ete
(Last, Fir	AND		
Green	YEARS OF AMI DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN YEARS OF DOMESTIC	OOMESTIC DESIGN :: 0
Brief Explanation of Responsibilities Mr. Green is a Registered Professional Surveyor with over 30 ye engineering design technician. He is expertly qualified in most co GPS surveying. He is also expertly qualified in the right-of-way pl	over 30 years of experience in the eng in most conventional types of surveyin ht-of-way plan process.	Brief Explanation of Responsibilities Mr. Green is a Registered Professional Surveyor with over 30 years of experience in the engineering industry in surveying or survey related capacities and as an engineering design technician. He is expertly qualified in most conventional types of surveying with some experience in newer non-conventional types such as GPS surveying. He is also expertly qualified in the right-of-way plan process.	ities and as an
EDUCATION (Degree, Year, Specialization) Civil Engineering Technology, 1976			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
American Congress on Surveying & Mapping West Virginia Society of Professional Surveyors National Society of Professional Surveyors CGIS/LIS Association		Professional Surveyor, 1991, WV - 901	
			A TOTAL CONTROL OF THE PROPERTY OF THE PROPERT

Mr. Yanero serves as Designer at Hatch Mott MacDonald. His past experience includes AML design projects for the states of West Virginia, Maryland and Ohio, commercial and residential development, subsidence investigation and pre-blast surveys. Mr. Yanero is also familiar with design, operation and maintenance of AMD facilities, West Virginia Division of Highways entrance permits, Department of Health and Human services permits for sanitation and waterline feasibility as well as all aspects of mine permits applications and design for West Virginia. He is also knowledgeable with storm water applications and design related to Mr. Reese serves as CADD Designer at Hatch Mott MacDonald. His past experience includes AML design projects for the State of West Virginia. He is also knowledgeable with various forms of mine permitting in West Virginia and Pennsylvania. Mr. Reese is familiar with basic surveying techniques, storm water design, hydraulic and hydrologic computations, erosion and sediment control plans, and 3D Modeling using ACADD. YEARS OF DOMESTIC WATERLINE DESIGN YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 3 EXPERIENCE: 4 PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete REGISTRATION (Type, Year, State) REGISTRATION (Type, Year, State) YEARS OF AML RELATED DESIGN YEARS OF AML RELATED DESIGN YEARS OF EXPERIENCE EXPERIENCE: 11 EXPERIENCE: 37 YEARS OF AML DESIGN EXPERIENCE: OF AML DESIGN AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE. YEARS OF AML EXPERIENCE: 7 studies. Mr. Yanero's expertise is in surveying and AutoCAD 3D. AS, 1974, Engineering Technology, Fairmont State College MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS EDUCATION (Degree, Year, Specialization) EDUCATION (Degree, Year, Specialization) CADD, 1998, Monongalia County Vocational Center Brief Explanation of Responsibilities Brief Explanation of Responsibilities HISTORY STATEMENT OF NAME & TITLE (Last, First, Middle Int.) NAME & TITLE (Last, First, Middle Int.) keep to essentials) data but keep to essentials) PERSONAL data but CADD Designer Jason Reese Dave Yanero Designer 13. PEK

ESPONSIBLE FOR AML PROJECT DESIGN (Furnish compl

Mr. Chambers joined Hatch Mott MacDonald in July of 2006 and is now working as an Engineer in the Morgantown office. His experience includes extensive fieldwork in environmental projects, data analysis and report compliances, groundwater monitoring, and hydrologic flow studies. He is proficient in operating numerous pieces of equipment including, but not limited to: a Trimble GeoXT GPS, a Marsh-McBirney Model T2000 Flow Meter and various other groundwater above ground. At this time he is creating estimates for several large scale stream monitoring projects. Mr. Cline is also managing equipment and people in a dynamic schedule that he created to track all monitoring tasks for each of nearly 30 persons at 5 deep mine sites, on a daily basis. He has had several classes in natural stream design and stream restoration that includes Rosgen Level One - Fluvial Geomorphology for Engineers and other classes hosted by YEARS OF DOMESTIC YEARS OF DOMESTIC WATERLINE DESIGN parameters of streams, and GPS surveying. He is capable of making keen observations with respect to the effects of longwall mining to surface features Mr. Cline is experienced in ASTM Standard materials testing, construction and environmental inspection services, monitoring the many different physical 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete EXPERIENCE: 0 EXPERIENCE: 0 Introduction to Stream Surveying 10-Hour OSHA Training Course in Construction Safety & Health ESPONSIBLE FOR AML PROJECT DESIGN (Furnish compl Natural Stream Design Construction Management Workshop REGISTRATION (Type, Year, State) REGISTRATION (Type, Year, State) YEARS OF AML RELATED DESIGN YEARS OF AML RELATED DESIGN YEARS OF EXPERIENCE YEARS OF EXPERIENCE EIT, West Virginia EIT, West Virginia EXPERIENCE: 3 EXPERIENCE: 4 YEARS OF AML DESIGN EXPERIENCE: YEARS OF AML DESIGN EXPERIENCE: AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE. Rosgen Level 1 - Fluvial Geomorphology for Engineers Rosgen Level 2 - River Morphology and Applications MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Year, Specialization) Rosgen Level 3 - River Assessment and Monitoring EDUCATION (Degree, Year, Specialization) Brief Explanation of Responsibilities Brief Explanation of Responsibilities and surface water sampling instrumentation. NAME & TITLE (Last, First, Middle Int.) NAME & TITLE (Last, First, Middle Int.) data but keep to essentials) ASCE – WV Northern Branch (President) data but keep to essentials) MS, 2006, Environmental Engineering American Society of Civil Engineers AS, 1999, Mathematical Science BS, 2003, Civil Engineering BS, 2004, Civil Engineering Canaan Valley Institute. EDUCATION (Degree, Chambers, Ricardo A. Cline, Jeremiah C. 13. PER Engineer

13. PER AL HISTORY STATEMENT OF PRINCIE	PRINCIPALS AND ASSOCIATE. ESPONSIBL	ESPONSIBLE FOR AML PROJECT DESIGN (Fu	(Furnish compl
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The community of the co	YEARS OF AML DESIGN EXPERIENCE: 2	YEARS OF AML RELATED DESIGN EXPERIENCE: 6	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities			
Mr. McDermott is a Geologist with a prover data. He is proficient in operating numero	track record of success bus pieces of equipment in various other groundwater	s in collecting, analyzing and gincluding, but not limited to: a er and surface water sampling in	graphically representing a Trimble GeoXT GPS, a instrumentation.
ar, Specialization	A constanting to the constanting	-14000	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, S	State)
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS	PALS AND ASSOCIATES RESPONSIBLE	FOR AML PROJECT DESIGN	(Furnish complete
TLE (Last, Fir	1 - Annual Agent and Agent	YEARS OF EXPERIENCE	ANAMASI ANAMAS
au Downing ogist / Geomorphologist	YEARS OF AML DESIGN EXPERIENCE: 2	YEARS OF AML RELATED DESIGN EXPERIENCE: 2	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities Mr. Downing serves as Geologist at Hatch Mott MacDonald. His past experience includes AML design projects for the state of West Virginia. His expertise is in stream geomorphology and natural stream design. Mr. Downing is also familiar with surficial geology mapping, digital stream channel surveys, and digital cartography.	Jonald. His past experience includes AMr. Downing is also familiar with surficial	AL design projects for the state of Wes geology mapping, digital stream chan	t Virginia. His expertise is in nel surveys, and digital
***************************************		destablished to the state of th	
EDUCATION (Degree, Year, Specialization) MS Geology, 2008, Geomorphology BA, Geology, 2006	Natural St Rosgen Le Rosgen Le	Natural Stream Design Rosgen Level 1 – Fluvial Geomorphology for Engineers Rosgen Level 2 – River Morphology and Applications	gineers tions
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Geological Society of America American Geophysical Union American Institute of Professional Geologists		REGISTRATION (Type, Year, S	State)

PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE A

'E A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN DESIGN SERVICES PRC

FIELD EQUIPMENT

Sampling Equipment (water/solid)

Ponar Dredge (solids underwater)

Automatic Water Samplers

Hand Augers (soil)

EnCoreTM Samplers

Disposable Field Filters, 0.45 micron

Bailers (disposable Polyethylene, PVC, Teflon)

Groundwater Pumps

Safety Equipment

Hazmat Kit/Draeger Tubes O2, LEL, H2S, CO Meter

Tripod Confined Space Entry System

Personal Protective Equipment (PPE)

General Equipment

Air Compressor (electric powered, 110V)

Digital Camera

Electric 110V-220V Generator (gas powered)

Jar Test Apparatus

Settling Column

Metering Pumps (0-500 ml/min) Field Kits (HACH)

Measuring Instruments

Marsh McBirney T2000 Flow Meter (open channel)

Fluorometer (water flow open channel)

Polysonics Flow Meter (closed pipe)

Water Level Recorder

Water Level Indicator (wells, tanks)

Interface Layer Probe (wells, tanks)

Recording Rain Gauge

pH/Conductivity/Temp Meter

pH/Temp Meter **ORP Meter**

Specific Conductivity/Temp Meter

Photoionization Detector

Portable Rangefinder

Brunton Compass

Total Station with Data Collector

GPS Submeter Unit

GPS RTK (Portable Base + Rover)
GPS RTK (Complete Unit)

General Office

Microsoft Word

Microsoft Excel

Microsoft PowerPoint

Microsoft Outlook Microsoft Project

Adobe CS2 Suite

Design and Modeling

AutoCAD 2007

AutoDesk Land Desktop 2007 (civil/site)

Autodesk Civil 3D 2007 (civil/site)

MicroStation V8 2004

FlowMaster 2005 (flow design)

InfoWorks CS (hydraulic modeling)

XP-SWMM (hydraulic modeling)

InfoSewer (hydraulic analysis)

PENTOXSD for Windows (effluent limits) HEC-RAS (open channel modeling)

WQM 7.0 (BOD/NH3 wasteload allocation)

GIS and Database

ArcGIS (GIS mapping and database mgmt.) SQLServer (database management)

Oracle (database management)

Microsoft Access (simple databases)

OFFICE EQUIPMENT

Oce TDS 450 B/W Plotter (high speed, wide format)

Oce TCS 500 Color Plotter (high speed, wide format) Oce Wide Format Color Scanner

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PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	SERVICES COST	COMPLETE
Barker Portals & Strip Barbour County, WV	West Virginia Division of Environmental Protection	Reclamation Design, Mine Closures, Highwall Reduction, Regrade/Revegetation	\$149,000	%09
Heather Run No. 2 Preston County, WV	West Virginia Division of Environmental Protection	Reclamation Design, Mine Closures, Highwall Reduction, Channel Design	\$102,000	%06
Pendleton Creek Strip Tucker County, WV	West Virginia Division of Environmental Protection	Reclamation Design, Natural Stream Channel Design, ARRI Reforestation Plan	\$153,000	%86
Stream Mitigation/ Restoration Project Southwestern, PA	Confidential Coal Client	Stream Mitigation and Restoration of approximately 50,000 lineal feet of stream affected by longwall mining.	\$4,000,000	20%
Stream Monitoring Southwestern, PA	Confidential Coal Client	Stream monitoring of approximately 25,000 lineal feet of stream affected by longwall mining.	\$11,000,000	30%
Chinook Mine Brasil, Indiana	Ed Greenwald, Jr. Headwaters Energy Services 3 Church Street Lawrence, PA 15055	Mapping and verification of coal waste quantities.	\$8,600	95%
A & G Coal Norton, VA	Ed Greenwald, Jr. Headwaters Energy Services 3 Church Street Lawrence, PA 15055	GPS locations, GIS mapping and verifications of coal waste quantities.	\$9,175	95%
Phoenix Mine Greenville, KY	Ed Greenwald, Jr. Headwaters Energy Services 3 Church Street Lawrence, PA 15055	Mapping and verification of coal quantities	\$8,500	%06
Mepco Holdings Morgantown, WV	Russell Bolyard 308 Dents Run Road Morgantown, WV 26501	Various Mine Permits	\$700,000 Fee	%02
Various Mine Permitting Projects, WV	Confidential Coal Client	Shaft permits, permit modifications and permit renewals	\$120,000	%09
TOTAL NUMBER OF PROJECTS:10	.5:10	TOTAL ESTIMATED COSTS: \$15,250,275		and a second control of the control

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T ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATE

-CONSULTANT TO OTHERS	
ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A	
T ACTIVITIES ON WHICH YOU	
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	ESTIMATED CONSTRUCTION COST	YOUR FIRMS RESPONSIBILITY	\$17,000	\$200	25,800		
	ESTIMATED CO	ENTIRE PROJECT	\$4,300,000	\$200,000 (fee)	\$900,000	Procedure and the state of the	
	ESTIMATED COMPLETION	a i Mar	2009	2008	2007		
**************************************	NAME AND ADDRESS OF OWNER		Long Island Rail Road 469 7th Ave., 11th Floor New York, New York 10018	Southeastern Pennsylvania Transportation Authority (SEPTA) 1234 Market Street, 11th Floor Philadelphia, Pennsylvania 19107	Metropolitan Washington Airports Authority 1 Aviation Circle Washington, D.C. 20001- 6000		
de Journal Communication of the Communication of th	NATURE OF FIRMS RESPONSIBILITY		Program Management. Design review and expert advise on the tunnel design and construction including ventilation systems and other fire/life safety issues. LIRR service into Grand Central Terminal. The new line will utilize the partially completed 63rd Street tunnel and construct approximately 5,000 feet of new tunnel into Grand Central Terminal.	The aerial structure on the west side of SEPTA's Blue Line is being rebuilt where the at-grade track begins. The project spans over two miles and will be accomplished while SEPTA continues to operate service on the line.	Design of the people mover, baggage and tug tunnel, including mechanical and electrical systems, ventilation systems and fire/life safety for all tunnels on the project. Involves 50,000 ft of tunnels ranging from 18-ft diameter to 40-ft diameter constructed by NATM and TBM, running beneath the airport operating area.		
))	PROJECT NAME, TYPE AND LOCATION		East Side Access, New York, NY	Market Street Elevated Reconstruction Project, Philadelphia, PA	Dulles Airport People Mover Tunnels, Virginia/Washington DC		

17 C LETED WORK WITHIN LAST 5 YEARS ON WHICH	YOUR FIR AS THE DESIGNA	DESIGNATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION	YEAR	CONSTRUCTED (YES OR NO)
Stream Mitigation/Restoration Project Southwestern, PA Stream mitigation and restoration of approximately 21,000 lineal feet of stream affected by longwall mining.	Confidential Coal Client	\$5,000,000	2007	Yes
Stream Monitoring Southwestern, PA Stream monitoring of approximately 13,000 lineal feet of stream affected by longwall mining.	Confidential Coal Client	\$4,600,000	2007	N/A
Pond Restoration and Sealing Project Mannington, WV Restoration and liner installation on pond affected by longwall mining.	Confidential Coal Client	\$30,730	2007	Yes
Program Management Services Providing overall program management of the water distribution system including planning, engineering design and engineering design management services, Master Plan and Operations review and update in support of DCWASA's ongoing capital improvement program in excess of \$500m.	District of Columbia Water & Sewer 5000 Overlook Avenue, SW, 5 th Floor Washington DC 20032-5397	\$9,500,000	2006	N/A
Crow's Nest Wash Plant Hatch Mott MacDonald (HMM) was retained by the client to develop a permit for the re-processing of coal waste products at a site in Westmoreland County, Pennsylvania. The site was not of an observable of the products and coal waste pile.	Donald F. Dargie Palmer Management Group 13 Elm Street, Suite 300 Cohasset, MA 02025	\$300,000	2006	Yes
Tampa Bay Seawater Desalination Facility Modifications Serving as the Engineer of Record for the project. Responsible for structural, architectural, electrical, mechanical and site related design and review of process design for the planned modifications. Also providing construction engineering services	American Water Pridesa, LLC 13041 Wyandotte Road Gobsonton, FL 33534	\$24,000,000	2007	Yes
Lost Creek Flood Study Project involved performing a FEMA flood study to revise the floodplain boundaries along Lost Creek. Services included creation of a hydraulic model based on new survey data and completion of all necessary FEMA documentation to support the floodplain revision	Harrison County Planning Commission 301 West Main Street Clarksburg, WV 26301	\$60,000 (fee)	2005	°Z
Harrison County Trail (McWhorter to Clarksburg) Harrison County Trail (McWhorter to Clarksburg) Preparation of design plans, specifications, and bid documents for the conversion of an abandoned 14-mile CSX Railroad grade to a hiking/biking trail. Services included stormwater drainage design; trail surface design; wetland delineation; and bridge decking/rehabilitation. Harrison County, WV	Harrison County Planning Commission 301 West Main Street Clarksburg, WV 26301	\$655,000	2006	, kes

17. C' 'LETED WORK WITHIN LAST 5 YEARS ON WHICH	YOUR FIR' 'AS THE DESIGN	DESIGNATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Storm Drainage & Flood Control Improvements Storm sewers, stream improvements, an earth dike & a pump station and installation of streamflow and rainfall gauging station equipment on the East and West Branches of the Rahway River. Services also included: Field Surveys, Wetlands Assessment, Hydrologic / Hydraulic Investigations, Cost Estimates, Cost Benefit Analysis, Flood Warning System, Flood Preparedness Plan.	Millburn Township 375 Millburn Avenue Millburn, NJ 07041	\$2,000	On- going	\rightarrow \right
Norfolk Southern Heartland Corridor Project, Various Locations Inspection and evaluation of clearances, condition, and geotechnical characteristics for 30 railroad tunnels. Laser car measurements, geotechnical borings, liner samples, and visual inspections were used to establish the existing baseline conditions and to evaluate the potential for tunnel modifications to provide additional clearances.	Norfolk Southern James N. Carter 404.529.1408	\$180,000,000	2005	N/A
Emergency Services Contract for Route 70 Bridge Over Friendship Creek HMM provided emergency design and construction consultation services for the replacement of a collapsed bridge on NJ Rt. 70 due to scour. Developed diversionary road alignment and profile and foundation design for a 130' temporary Acrow Bridge maintaining all lanes of traffic, which was opened to traffic in five days after the collapse. Ultra fast-tracked the design and developed detailed design sketches in advance of full design drawings for use by contractor and fabricators in accordance with the NJDOT Procedures Manual, NJDOT Roadway & Bridge Manuals and AASHTO Standard Specifications for the permanent replacement structure.	New Jersey DOT 1035 Parkway Avenue Trenton, NJ Brian Strizki 609.530.6363	\$3,000,000	2004	× es
- Company - Comp			ĺ	

18. ZLETED WORK WITHIN LAST 5 YEARS OF WORK FOR WHICH YOUR FIRM WAS RE	YEARS ON WHICH YOUR FI.	AS BEEN A SUB-CONSULTANT TO OTHER FIRMS	TO OT IN	HER FIRMS (INDICA:	
	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Columbus Crossover Taxiway, Port Columbus International Airport, Columbus, OH: Preliminary structural design engineering for the taxiway bridge(s) including an investigation of bridge types, structural systems, de-icing systems, costing and development of structural design	Columbus Airport Authority 4600 International Gateway Columbus, OH 43219	\$30.87 M (Construction)	2006	Yes	RWA Associates
Westport Railroad Station, Westport, CT As part of an ADA compliance upgrade, a pedestrian tunnel had to be constructed under four live Metro-North Railroad tracks, which also carry the East Coast Main Line service between Boston and New York. HMM completed a feasibility study and subsequently designed and provided on site supervision for the construction of a 75 ft long jacked tunnel.	Connecticut Department of Transportation 2800 Berlin Turnpike, P.O. Box 317546 Newington, CT 06131-	\$2.5 M (Construction)	2003	Yes	TAMS Consultants
Easterly Advanced Facilities Plan, Cleveland, OH QA/QC of geotechnical data collection and reporting, feasibility and selection of tunnel and shaft excavation and lining systems. 30% design of tunnel linings and construction cost estimates for all tunnel construction contracts. This project involved 16-mi of CSO tunnels, from 20 to 27-ft in finished diameter and as deep as 200 feet traversing	Northeast Ohio Regional Sewer District 3826 Euclid Ave. Cleveland, OH 44115- 2504	\$166,000 Fee	2003	Yes	Haley & Aldrich, Inc.
ovide any addit rform work for	information est Virginia	or description of resources s Abandoned Mine Lands Program.	es suppor	supporting your firm'	ន " ៣:
Hatch Mott MacDonald's talented staff and years of experience in meeting deadlines and delivering a quality product has made us a leader in mining/mining related field. ENR's April 2009 Top 500 Design Firm List has Hatch Mott MacDonald (HMM) listed as 51, up from 59 in 2008 (and 63 in 2007) the previous year. Additionally our current staff has over 100 years of AML experience in six different states and gives us the knowledge and understanding of project project management and cost control to complete this project on time and within budget. We recently expanded with the opening of our Charleston, WV office to better serve WVDEP-AML and southern West Virginia.	s of experience in meetin Design Firm List has Hat s over 100 years of AML et te this project on time an n West Virginia.	g deadlines and delivering a qual ch Mott MacDonald (HMM) listed experience in six different states a d within budget. We recently exp	ilty product as 51, up 1 and gives u anded with	has made us a les rom 59 in 2008 (ar is the knowledge a i the opening of ou	ider in mining/ nd 63 in 2007) the nd understanding of r Charleston, WV
20. The foregoing is a statement of facts.	its.		Date:	April 29,	2010
Signature: Printed Name: Timothy M. Rice	M. T.	Title: Area Manager			
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Location

Tucker County, Thomas, WV

Client

West Virginia Department of Environmental Protection

Services

- Surveying
- Geotechnical Investigations
- Mapping
- · Reclamation Plan
- Natural Stream Design
- ARRI Reforestation
- Construction Plans and Details
- Construction
 Specifications
- Engineering Cost Estimate

Project Description

Hatch Mott MacDonald (HMM) was retained by the client to provide engineering design documents for the reclamation of an abandoned surface mine in Tucker County, WV. Pre-law mining activities intercepted Pendleton Creek and has forced the stream flow to be directed into an abandoned deep mine complex that lies under the community of Thomas, WV. The introduction of this flow is causing deterioration of the coal pillars that support the mine roof and is also generating AMD on the waters of the Blackwater River

HMM's work included all design documents necessary for construction and the project specific Corps of Engineers permits. Portions of the highwall were reclaimed to provide positive drainage of surface waters. Two separate streams were designed utilizing natural stream design techniques and bentonite liners to control losses and maintain stability. All disturbed areas were revegetated using ARRI reforestation procedures and native species.





Location Westmoreland, PA

Client Crow's Nest Synfuels, L.P.

Services

- PADEP Permit
- MSHA Permit
- Erosion and Sediment Control Plan
- Mapping
- Surveying
- Surface and Groundwater Monitoring
- Annual Certification
- Reclamation Plan
- · Closure Permits
- Construction Monitoring
- Channel Design
- · Construction Inspection

Project Description

Hatch Mott MacDonald (HMM) was retained by the client to develop a permit for the re-processing of coal waste products at a site in Westmoreland County, Pennsylvania. The site was part of an abandoned surface mine and coal waste pile.

Work included all design and permitting associated with the initial opening of this facility. HMM was also retained to monitor the operations and perform quarterly certifications. Annual renewals, modifications and compliance was also part of HMM's duties. The project was successfully followed through the reclamation and bond release stages of all state and federal regulatory agencies.





Location Somerset County, PA

Client Hoffman Mining Company

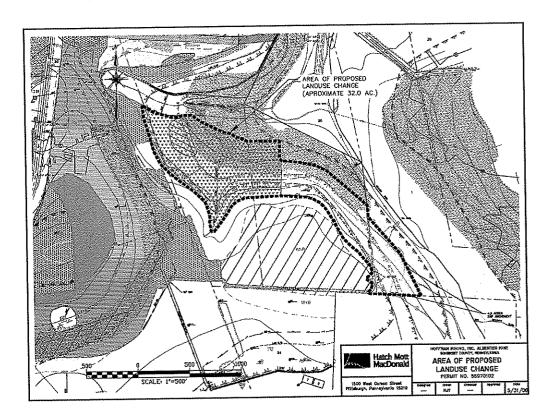
Services

- PADEP Permit
- Erosion and Sediment Control Plan
- Mapping
- Surveying
- Surface and Groundwater Monitoring
- · Annual Certifications
- · Reclamation Plan
- · Closure Permits
- Construction Monitoring
- · Channel Design
- Construction Inspection
- · Bond Release

Project Description

Hatch Mott MacDonald (HMM) was retained by the client to develop a surface mine permit for a site in Somerset County, Pennsylvania. The site included several land use changes.

Work included all design and permitting associated with the initial opening of this surface mine. HMM was also retained to monitor the operations, perform quarterly certifications, annual renewals, modifications, and compliance. The project was successfully followed through the reclamation and bond release stages of all state and federal regulatory agencies.







Location

Bayard, WV

Client

Confidential Mining Client

Project Type

Hydraulic Analysis

Services

Hydraulic Analysis Study

Duration

September 2004 – February 2005

Project Description

The client had an inactive mine site where they were operating a treatment plant to treat acid mine drainage. During large storm events, the steep slopes of the site caused rapid increases in the flow conveyed through the onsite drainage network. These increases in flow resulted in sudden spikes in the flow rates entering the treatment plant. This project was conducted to provide an evaluation of alternatives for reducing the peak flow rates during storm events that would allow the treatment plant to maintain operation within a preferred flow range during.

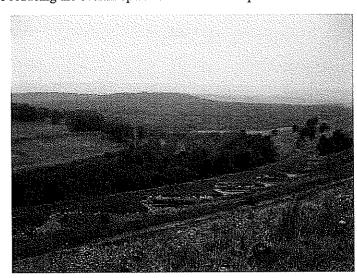


HMM Role

HMM was tasked with performing a hydraulic and hydrologic study of the site and providing specific alternatives for reducing peak flows at the treatment plant. These alternatives included additional detention basins and the application of real time controls to better utilize storage available within the existing drainage network. HMM also provided supplementary services including collecting the necessary flow monitoring and rainfall data to calibrate the hydraulic model. In addition, HMM provided survey services of the various drainage paths throughout the site that forms the basis of the hydraulic model.

Highlights

- Performed GPS surveying of open drainage channels and various culverts throughout the site
- Collected flow monitoring data using both weirs (open channel) and area-velocity meters (culverts) in an aggressive chemical environment.
- Utilized the calibrated hydraulic model to evaluate various alternatives to reduce peak flows
 entering the treatment plant in addition to reducing the overall operational costs of the plant.





Stream Monitoring and Data Collection

Location

Washington and Greene Counties, PA

Client

Confidential Mining Client

Project Type Market/Discipline area

Services

- Stream Data Collection and Management
- GIS and GPS Data Collection
- Landowner Contacts
- Area Logistics
- Project Scheduling
- Secure Information Exchange
- Integrated Web-based Project

Duration

2003-present

Construction Cost \$4,000,000 annually

Project Description

This confidential coal mining client is among the nation's top energy companies. They mine more high-Btu bituminous coal than any other producer in the United States, and is the nation's leader in underground coal mining. The client has operations located throughout major US coal-producing regions. They are the largest producer of coal bed methane in the US. For 140 years, the client and its predecessor companies have been industry leaders in production, profitability, safety, and environmental stewardship. Hatch Mott MacDonald (HMM) is currently assisting this client in managing, and developing an extensive study of the streams that overlie longwall coal mines. The study involves studying and documenting the streams' flow; geomorphology, hydrology and noting any changes in streams or the surrounding ecosystem. The accurate and consistent, collection of the data is critical to the integrity and quality of the study. The end result is a significant amount of field data that accurately portrays the streams and watersheds of the mining surface areas.

HMM Role

Hatch Mott MacDonald (HMM) is currently assisting the client in managing, and developing an extensive study of the streams that overlie longwall coal mines. The study involves studying and documenting the streams' flow; geomorphology, hydrology and noting any changes in streams or the surrounding ecosystem. The accurate and consistent, collection of the data is critical to the integrity and quality of the study. The end result is a significant amount of field data that accurately portrays the streams and watersheds of the mining surface areas.

Project Highlights

- Project Development The project development was undertaken by client and HMM teams.
 The data collection and entry as well as data management are critical to the success of the study.
 Additional areas of development include
 - Stream data collection techniques and equipment evaluation
 - GIS and GPS data collection and organization
 - Landowner contacts and area logistics
 - Project Scheduling and Information Exchange
 - Web based access to data
- Data Collection Work included setting up flow monitoring stations along designated sections of streams within the study areas being long-wall mined. Over 600 different flow-monitoring stations and more than 144 miles per month of stream morphology are uploaded into Trimble Geo XH sub-foot GPS units and traversed every month. These units were then used to navigate to each individual site of study. Once sites were located, stream flow measurements, water samples and digital photos were taken. Any changes along the length of stream in the geologic rock structures, stream channel conditions or stream flow were documented photographed, and filmed and entered into the GPS. The stream flow measurements were taken using a Marsh-McBirney Flo-mate 2000. All flow-monitoring sites are monitored monthly at a minimum and daily on a maximum basis. All field data collected is entered into a large data base where the data can be queried and printed for the clients at any given time for regulatory agencies, historical record, or research for expansion in new permit areas.
- Landowner Contacts and Logistics Managing the landowner contacts, issues, and incidents is essential to the continuity and success of the project. HMM coordinated this activity with the client's land agents and many other consultants being used by the client.
- Project Scheduling and Information Exchange All HMM field teams and other field teams
 are scheduled using an open web based system developed by HMM called File Share.
 Mapping, documents and data can be shared and exchanged using the File Share system.
- Web Based Access to Data –HMM assisted the Client in developing an extensive web based data access system.



Stream Mitigation & Remediation Project

Location

Greene and Washington Counties, PA

Client

Confidential Coal Client

Services

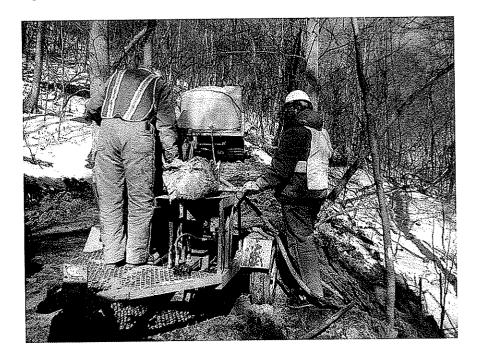
- Augmentation Work Plans
- Grout Injection Work Plans
- Subsurface Investigation Plans
- Stream Surveying
- Flow Monitoring
- Surface and Groundwater Monitoring
- · GIS Mapping
- Hydrologic Modeling
- · Channel Design
- · Report Preparation
- Construction Inspection

Project Description

Hatch Mott MacDonald was retained by a private coal client to assist in the mitigation and remediation of over 50,000 lineal feet of streams that have been affected by longwall mining.

Work included surface and groundwater monitoring, hydrologic modeling, and subsurface investigations to determine minimum base flows for development of augmentation plans. Geologic conditions were then used to prepare a mitigation plan and develop a grout injection design for remediating the loss segments of the affected streams. This grout injection design consisted of a shallow, low-pressure injection of portland and bentonite to seal fractures and reduce water loss. Stream surveying of the remediation sites and control streams were used to establish a stable stream geometry that would effectively carry bankfull flows. Trimble GPS units and GIS software was used to develop maps showing the flow advancement downstream as construction progressed.

HMM performed the construction inspection and construction management of the project. This work included full-time inspection, evaluation of contractor performance and work product, and approval of contractor quantities.





Impoundment Mitigation and Restoration Project

Location Wetzel County, WV

Client Confidential Coal Client

Services

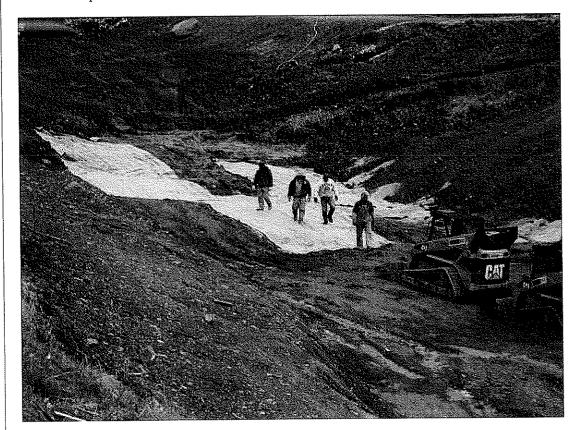
- Grout Injection Work Plans
- Subsurface Investigation
- Surveying
- Utility camera survey
- · GIS Mapping
- Liner Design
- Cost Analysis
- Construction Inspection

Project Description

Hatch Mott MacDonald was retained by a private coal client to assist in the mitigation and remediation of an existing private impoundment that had been affected by longwall mining.

Work included investigation of subsurface data, groundwater monitoring, hydrologic modeling, and flow loss analysis. Hatch Mott MacDonald developed a combination grout injection plan and geosynthetic liner design. This grout injection plan consisted of a shallow, low-pressure injection of a mixture of Portland cement and bentonite to seal fractures and reduce water loss. The geosynthetic liner design utilized an impermeable bentonite mat at select locations within the pond bottom. A utility camera was used to observe infiltration and leakage of the pipe principal spillway.

HMM performed the construction inspection and construction management of the project. This work included full-time inspection, evaluation of contractor performance and work product, and approval of contractor quantities.





Lost Creek Floodplain Investigation

Location

Harrison County, WV

Client

Harrison County Commission, WV

Project Type

Flood Modeling/Mapping

Services

Site Characterization Hydrologic/Hydraulic **Evaluations**

Duration

July 2004 - March 2005

Project Description

The Lost Creek Floodplain Investigation provided the Harrison County Commission with detailed floodplain information for Lost Creek between the Town of Lost Creek corporate limit and Lost Creek's downstream confluence with the West Fork River. Prior to this investigation, Lost Creek was characterized as approximate Zone A on the Harrison County, WV (Unincorporated Areas) Flood Insurance Study (FIS) and Flood Insurance Rate Maps (FIRMs). A final report was prepared for the Harrison County Planning Commission with all necessary documentation and analysis to support a revision to the Flood Insurance Rate Map for the Town of Lost Creek, WV.

HMM Role

Site Characterization - HMM prepared the detailed flood hazard mapping for Lost Creek by conducting field investigations and performing detailed hydraulic evaluations within the project study area. A combination of traditional land surveying and GPS surveying were used to identify cross sections of Lost Creek at set intervals. HMM combined the new cross section survey data with USGS DEM data to create a new Triangular Irregular Network (TIN) in ArcView. Cross sections were automatically extracted from the GIS TIN using HEC-GeoRAS and imported into HEC-RAS for performing the hydrologic and hydraulic evaluations.

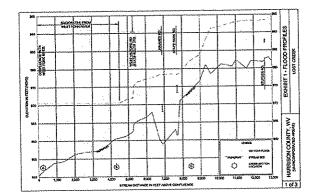
Hydrologic/Hydraulic Evaluations - HMM used HEC-RAS to establish the peak flow for the 100year storm using current US Geological Survey (USGS) regression equations for rural watersheds. The resulting floodplain and floodway boundaries for the 100-year storm event were mapped on

digital topographic maps overlaid with color aerial photographs. A water surface profile was established for the 100-year storm for the establishment of Base Flow Elevations along Lost Creek.

Project Highlights

- Development of hydrologic/hydraulic models
- Site characterization and delineation of Waterway flood elevation
- Deterioration of floodway boundaries and development of Flood Insurance Rate Map updates.







Harrison County Trail - McWhorter to Clarksburg Trail

Location Harrison County, WV

Client Harrison County

Services

- Stormwater Drainage Design
- Trail Head/Parking Layout
- Precast Arch Culvert Design
- Bridge Rehabilitation
- Construction Contract Administration
- · Construction Inspection

Reference

Terry Schulte, Executive Director 304-624-8690

Project Description

Hatch Mott MacDonald was retained by the Harrison County Commissioners to prepare design plans, specifications, and bid documents for the conversion of the abandoned 14-mile CSX Railroad grade to a hiking/biking trail.

Work included digitizing existing railroad right-of-way maps into AutoCAD format; evaluation of existing drainage structures; design of drainage rehabilitation; design of new drainage structures; trail surface design; preparation of clearing, grubbing, and tree pruning specifications; design of trail entrances, gates and fencing; design of access barriers (to prevent unauthorized motor vehicles from gaining entry to the trail); wetland delineation; and bridge decking/rehabilitation.

HMM will also perform the construction inspection and construction management of the project. This work will include full-time inspection; evaluation of contractor performance and work product, and approval of contractor invoices. The project was completed in the Fall of 2003.





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