

## **6.0 KEY PERSONNEL QUALIFICATIONS**

**(SEE ATTACHED)**

# **Bruce L. Brusio, Principal**

## **Fields of Competence**

Occupational Health and Safety Certified Instructor  
Project management (International and Domestic)  
Site remediation design and implementation  
Corporate level responsibility for compliance and interface  
Innovative technology development  
Business development (International and Domestic)

## **Experience Summary**

More than 12 years of international and domestic professional experience providing site remediation and assessment services. Performed project management during feasibility study, design phase, and construction phase on numerous project sites ranging from heavy industrial facilities, water and sewer treatment plants, sludge lagoons, power plants, storage tank facilities, military bases and landfills. Project management design phase services included remedial technology development and evaluation, professional testimony, field chemical applications, occupational health and safety compliance training of over 3,000 individuals, and earthwork and compaction requirements. Project management construction phase services included providing field recommendations in a timely manner to reduce potential delays in construction schedules, and documenting and recording observation and testing services. Treatability study experience ranged from leading physical stabilization programs on highly organic contaminated soils and heavy metal soils to development of field pilot programs.

## **Credentials**

National Fire Academy - Hazardous Materials Response  
Course work completed towards B.S., Environmental Engineering  
USEPA Hazardous Materials Team Certification  
Certified Hazardous Materials Supervisor -  
Harrisburg Community College, 1988  
Instructor - OSHA 1910.120 (q)  
WTTI - Metallurgy, 1984  
National Fire Academy - Certified Fire Fighter I

## **Professional Affiliation**

National Fire Protection

## **Key Projects**

Provided project design and management on the first Pennsylvania State Superfund Emergency Action project. Managed this interceptor trench, stabilization of soils and overpacking of 150 leaking drums project from development of the field program and conceptual design through the project design and construction phase. Worked directly with the project team from the PADEP and the Governor's office so immediate threats to groundwater were stabilized in 48 hours.

Provided Occupational Health & Safety as well as remediation expertise on a Due Diligence / Acquisition at a German owned speciality steel manufacturing facility being purchased in Pennsylvania. The assessment included definition of the occupational health and safety procedures, facility environmental setting, site historical background, environmental conditions, and a variety of remediation scenarios and cost estimates based on state and federal regulatory requirements. This information was utilized in the development of final purchase figures.

Provided design and implementation of an innovative soil treatment technology for a CERCLA project (REGION 3) at an existing Fortune 500 Communications manufacturer. The technology was implemented and completed the target treatment objective under the State of New York (NYSDEC's) toughest soil treatment standard in the US. The site contained mixed contaminants including hazardous levels of metals and chlorinated VOC's.

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Pennsylvania Hazardous Materials Technicians Assoc.

### **Key Projects (continued)**

Provided project management for a Fortune 50 Automotive Component manufacturer in (Region 5). The client won an environmental award as a result of the use of the innovative soil treatment technology. All soils and concrete discovered were treated on site thereby eliminating off-site disposal. Remedial Action Work was performed under the voluntary cleanup program in conjunction with IDEM (State of Indiana).

Provided PRP support on a feasibility study (FS) at an industrial facility's previous disposal area in the center of Metropolitan Milwaukee. Coordinated with the Wisconsin Department of Natural Resources (WDNR) to develop and implement the CBA MITU soil treatment technology. This project is the highest publicly funded State Superfund cleanup in the history of the State of Wisconsin. The site contains a mixture of significant quantities of organic and inorganic compounds in soil to a depth of 45 feet BGS. Developed Remedial Action Plan that considered a unique in-place treatment remedy that allowed for a 60% cost savings to the State. As such, remediation costs were reduced by \$6,000,000.

Developed an innovative trenching design application for various vertical barrier systems and groundwater control at a Military Installation in Virginia. The evaluation entailed developing a detailed cost analysis and determining constructability for the options considered.

Managed and participated in a treatability study program for In-SITU treatment of PCB contaminated soils and sediment on a Superfund project in the Mid-west. The project materials were contaminated with high concentrations of 1242 Aroclor. The treatability study provided a 68% reduction with the first application. The results are being further evaluated for full-scale implementation in combination with the MITU technology.

Provided innovative chemical response training and facilities spill management evaluation for seven years running at various Military Installations. Continue to provide custom Occupational Health & Safety training to the US Army and US Air Force. Additional training includes crisis management training to high level ranking officers for disaster preparation.

# Michael R. Bauer

## Certifications

40 Hour OSHA Worker Protection

## Fields of Competence

Site management and construction oversight

Site remediation

Field Chemist

## Experience Summary

Twenty years of service in the United States Army Reserve & Pennsylvania National Guard as a Nuclear-Biological-Chemical (NBC) Warfare specialist and Drill Sergeant. Last two years of military service included service as an adviser to the Commanding General of the Pennsylvania National Guard on NBC matters both military and civilian.

Nine years experience in the hazardous waste industry, including: manifesting, profiling, lab packing, consolidating, and HAZCATing materials in the field. Two years experience handling Radioactive and Biohazardous waste while working for a major pharmaceutical company in its R&D division. The last three as a field chemist/supervisor for a high hazard chemical spill response team, duties to include: Health & Safety, first entry, assessment, monitoring, and customer relations on all hazardous spills.

## Credentials

US Army Nuclear-Biological-Chemical Warfare School

US Army Drill Instructor Academy

US Army Advanced NCO Academy

US Army Combat Engineer School

West Chester University, 1997

## Key Projects

Providing site supervision during soil remediation project of hazardous soils in Milwaukee, WI. The project involves the in situ heat and chemical treatment of soils contaminated with Hexavalent Chrome and chlorinated VOCs. Providing management and coordination of site activities. Project is on going, to be completed October 2002.

Served as Field Chemist/Health & Safety Officer during response and remediation of a major warehouse fire serving as a transportation hub for multiple companies in Pennsylvania. Warehouse contained major quantities of: oils, greases, lubricant, cosmetic raw materials, bulk cleaning materials, QA/QC labs, PCB transformers, vitamins, sporting goods, bulk food products, and appliances. Project involved the containment and cleanup of product that migrated off site due to fire department activity. Areas impacted included wetlands and navigable waterways. Duties included review of all available MSDS Sheets and Shipping Papers to determine possible chemical hazards due to chemical reactions and thermal decomposition. Implemented and oversaw Air, Water, and Soil monitoring procedures. In charge of entering fire damaged structure to perform inventory, photo document, and delineate hazard areas. In charge of sampling and HAZCATing of all materials on site. In charge of packaging, removal, and disposal of all materials. In charge of pumping, treating, and obtaining permitting for sewer discharge over 750,000

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### **Key Projects (continued)**

gallons of organics and sulfides contaminated water on site, providing the customer with a savings of over \$250,000 for off site disposal.

Served as Field Chemist/Health & Safety Officer during a response to and remediation of 2,000,000 gallons of Sodium Hydroxide contaminated wastewater for a major pharmaceutical company in Pennsylvania. Coordinated neutralization and wastewater release, without any plant shutdown, loss of product or time for the manufacturer. Through prompt on site treatment the customer saved over \$700,000 in disposal costs, and millions due to no loss of product or work time.

Served as Field Chemist/Health & Safety Officer during a Chlorine gas release at a municipal water treatment plant in a New Jersey residential area. Coordinated all activities to stop, contain and dispose of released materials. Activity was completed with minimum impact to the public and surrounding area.

Served as Supervisor/Field Chemist/Health & Safety Officer on multiple PCB and Non-PCB pole cleanup sites, under various conditions, in Pennsylvania and New Jersey. In charge of identifying, delineating, and remediation of contaminated areas. Responsible for coordination of equipment, personnel, and disposal needs.

Served as Field Chemist during test pit digs at a former landfill in Delaware. In charge of inspection and identification of multiple hazardous substances encountered during excavation. Work was performed over a five-month period under Level B conditions.

# **James E. Marley**

## **Director**

CBA Environmental Services, Inc., Hegins, PA  
Armstrong Holdings, Inc., Lancaster, PA  
Arvin Meritor Automotive Inc., Troy, Michigan  
United Way of the Capital Region-Chair elect  
YWCA (Advisory Board), Harrisburg, PA  
Penn State University: Chair, College of Engineering's Grand Destiny campaign  
Ybn.com, Board chair, Harrisburg, PA  
Intercon Systems, Harrisburg, PA  
The Kline Foundation, Inc., Harrisburg, PA

## **Previous Directorships**

Pennsylvania Chamber of Business and Industry, Harrisburg, PA (Past Chair)  
Technology Council of Central Pennsylvania, Harrisburg, PA (Past Chair)  
Allied Arts Fund, Harrisburg, PA  
Susquehanna Art Museum, Harrisburg, PA

## **Experience Summary**

Mr. Marley has joined the Board of Directors for CBA Environmental and is a strategic consultant. He was employed at AMP Incorporated from 1963 to 1998. Mr. Marley was first elected as a Vice President in 1970. This position was followed by many executive positions including President and Director in 1986; President and Chief Operating Officer in 1990; and Chairman of the Board in 1993. He retired in 1998. Mr. Marley held engineering positions in several firms before joining AMP and holds a large number of patents. He has founded a new company focused on providing services to entrepreneurs.

## **Credentials**

B.S., Aeronautical Engineering, Pennsylvania State University, 1957  
M.S., Mechanical Engineering, Drexel University, 1963

## **Professional Affiliation**

C-PAN: The Central Pennsylvania Angel Network  
Institute of Electrical and Electronics Engineers, Inc. (IEEE)

American Society of Mechanical Engineers  
American Management Association

**Honors**

Penn State University - Distinguished Engineer Alumnus (1985)  
Drexel University - "100" Distinguished Alumni (1992)  
Penn State University - Distinguished Alumni by Board of Directors (1994)  
Drexel University - Doctor of Engineering (1995)

# Clark A. Romberger

## Certifications

Pennsylvania Sewage Enforcement Officer

## Fields of Competence

Project management  
Site management and construction oversight  
OSHA compliance and "HAZWOPER" Instruction  
Site remediation  
Erosion control

## Experience Summary

Eight years of service in the United States Navy as a Cryptologic Technician holding a Top Secret security clearance. During this time served at five different shore commands and aboard over five sea commands as a technician and Direct Support Team Supervisor. Last three years of military service included serving as an Instructor at a Naval Technical Training Center. Five years of experience providing site management and construction oversight involving hazardous waste site remediation projects, groundwater treatment projects, wastewater treatment plant construction, and collection system installation. Provided detailed field documentation and supervised field crews during site work activities. Project engineering services include design phase of wastewater treatment facilities, sanitary sewer systems, computer modeling of water distribution systems, groundwater treatment, and site remediation. Project management through design, implementation, construction and closure of hazardous waste remediation projects. Project management included administering the project budget and recognizing and implementing cost saving avenues and procedures which can be passed to the Client.

## Credentials

B.S., Environmental Engineering, Pennsylvania State University, 1996

## Professional Affiliation

Pennsylvania Association of Sewage Enforcement Officers

## Key Projects

Provided site management on a Pennsylvania Hazardous Waste Site Cleanup involving the in-situ remediation of chlorinated solvent impacted soils. Provided oversight of all site work activities including earth moving, soil treatment, verification sampling, and health and safety Issues.

Provided design recommendations and technical expertise in the implementation of a groundwater treatment system utilized to remediate a UST release site in Pennsylvania. Provided long term project management and oversight of operation and maintenance of the system.

Provided project engineering and assistance to project manager on a hazardous chrome remediation project in the state of Indiana. Developed and implemented cost tracking procedures for labor, equipment and materials; this information was used to manage the overall project budget and ultimately allowed the project manager to make cost saving decisions.

Provided project management during a soil remediation project of a hazardous waste site which was to be listed in the state of New York. The project involved the in-situ treatment of mixed hazardous waste, VOCs and heavy metals. Provided management and coordination of all site activities, and management of the project budget. Contaminated soil issues have been resolved on the site; groundwater monitoring is to continue; however, the site will not be added to the Potentially Most Hazardous Sites List In New York.

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**Key Projects (continued)**

Provided assistance on project management team for remediation project of a mixed hazardous waste site listed in the state of Wisconsin. Project involved in-situ remediation of chlorinated solvents and hexavalent chrome on the largest state funded project to date in Wisconsin. Integral part of project team decision making and problem solving process on earthmoving, soil treatment, decontamination, health and safety, and budgetary issues. Project is still active and ongoing.

Performed field engineering and construction oversight during the installation of a .75MGD wastewater treatment facility and during the installation of over 21 miles of collection system. Provided detailed field documentation and reviewed payment quantities and requests.

Conducted I & I study for a small municipality in southeastern Pennsylvania. Study included evaluation of pump station capacities, determining and identifying locations of potential causes, recommending various solutions, and oversight of implementing selected remedy.

# **Mark D. Snyder**

## **Certifications**

Certified Public Accountant (CPA)  
Certified Management Accountant (CMA)

## **Experience Summary**

Mr. Snyder serves as the Corporate Financial Officer (CFO) for CBA Environmental Services, Inc. He is responsible for all of the financial reporting to the Board of Directors and financial institutions. Before coming to CBA, he worked for the Company's outside accounting firm for 12 + years. He held positions as a public accountant and as a senior level supervisor for the last six years of his employment. His work encompassed all aspects of financial reporting including compilations, reviews, audits and projections. He also prepared tax returns for individuals, partnerships, "S" corporations and corporations.

## **Credentials**

B.S., Management Accounting, Lock Haven University, 1987

## **Professional Affiliation**

American Institute of Certified Public Accountants (AICPA)  
Pennsylvania Institute of Certified Public Accountants (PICPA)  
Institute of Management Accountants (IMA)