

3.0 SUPPORT CAPABILITIES

3.1 OPERATIONS

CBA Environmental Services, Inc. management staff includes a variety of professionals including geotechnical engineers, safety professionals, environmental engineers, and managers. Additionally, CBA's President and Principal Partners are recognized leaders in the geotechnical and/or environmental field(s). Training and education are combined with real-life experience of all personnel.

Our experienced project team, from senior project managers to field technicians, can be organized and tailored to meet specific job requirements. This would include handling such tasks as construction engineering, health and safety, recordkeeping, QA/QC, INSITU soil and groundwater remediation and custom "one pass" deep rock trenching. CBA can also provide a turnkey service for those projects requiring a remediation solution and close coordination of other services.

Project planning considers all the elements of a project and provides the basis for coordinating its implementation. The construction schedule that becomes a part of this plan is reviewed weekly to ensure timely completion. Costs are managed by a committed cost tracking system with direct input from the job site. Quality control becomes part of the daily job routine with outside laboratories providing independent third-party confirmation of field testing as/if required.

Every element of the project team can be increased to meet the demands of differing site conditions, weather, and changes in scope. CBA is committed to meeting project needs in the most straightforward, efficient, cost-effective manner. We emphasize planning to help anticipate and avoid conflicts. Moreover, we emphasize timely completion of a safe, quality production.

3.2 HEALTH AND SAFETY QUALIFICATIONS

3.2.1 Introduction

CBA management is committed to achieving safe production. As part of this commitment, CBA has an in-house Health and Safety Department, which provides technical input to line management in matters regarding health and safety. The manager of this department reports directly to the President of CBA. CBA's top management commitment to health and safety is evident. Management commitment to the program and incident prevention is further exemplified by CBA's Health and Safety Policy Statement signed by the President.

3.2.2 Health and Safety Department Qualifications

CBA's Health and Safety Department is designed to advise, question, warn and audit with respect to compliance. CBA's President and Operations Manager are disciplined in and practice strict Health and Safety/QA practices. Both individuals are also certified OSHA instructors who each conduct several hundred hours of compliance training every year. The President has fourteen years direct experience in both the safety and industrial hygiene arenas, serving in both technical and managerial capacities. Additionally, he has over twelve years in the environmental/hazardous waste discipline, providing health and safety technical support to management. The remaining staff consists of an Operations Manager - Health and Safety with over six years experience, who is also a staff health and safety specialist, with direct education and/or training in the safety and health arenas. Group experience includes working for such clients as USEPA, USAF, USARMY, DOT, and various clients from private industry. The Health and Safety Department has supported CBA on numerous construction and/or remediation projects, including IN-SITU soil and groundwater remediation, custom "one pass" rock trenches, slurry walls, et.al., where the organization has served as a Prime Contractor or subcontractor.

Staff members are well versed in industrial hygiene, general safety, and construction safety. They routinely interpret OSHA standards, NFPA, ACGIH, ANSI, and AIHA recommendations, and advise management regarding compliance.

3.2.3 Health and Safety Program Overview

CBA has an extensive program consisting of a written Health and Safety Program, Health and Safety Standard Operating Procedures (SOPs), Health and Safety Supervisory training, and an Employee Safety Handbook.

CBA has also instituted safety incentive awards programs for individuals and projects, and sets corporate goals each year for incident rates. Since formal program inception in 1996, CBA has continued to strive for improvement. Management enforcement of the program has manifested itself via enhanced employee protection, improved liability protection, and lowered EMR/incident rates.

3.3 QUALITY ASSURANCE/QUALITY CONTROL

3.3.1 Introduction

CBA management is committed to achieving quality production. As part of this commitment, CBA has an in-house QA/QC Department, which provides technical input to line management in matters regarding quality control. The Manager of this department reports directly to the President of CBA. Since the Operations Manager also reports to the President and is responsible for onsite compliance, CBA's top management commitment to quality is evident. Management commitment to the program is further exemplified by CBA's Quality Policy Statement signed by the President.

3.3.2 Quality Assurance/Quality Control Program Overview

Responsibility for project QC remains a line management function; however, the QA Specialist is responsible for the overall and ongoing development of CBA's QA/QC Program. These responsibilities include:

- 1) Coordinating the development and the updating of the Corporate QA/QC program.
- 2) Hiring, developing, and managing of QC Specialists to perform QC duties on CBA projects.
- 3) Assisting project management with developing/implementing training as necessary for QC specialists on projects.
- 4) Auditing projects for compliance with designated QC procedures.

Project Engineers/QC Specialists are responsible for following/implementing designated QA/QC SOPs in the field and reporting problems to management. These personnel report to the QA Specialist, who is responsible for ensuring technical consistency among these personnel. The Operations Manager - Health and Safety/QA oversees all QA Department activities.

Following are components of CBA's Manual, and hence, the program:

Policy Statement

- 1) Foreword (which details purpose, scope, definitions, as well as responsibilities, authority, accountability, and procedures for appropriate deviations)
- 2) QC Procedures/Testing
 - A) Insitu Soil Treatment
 - B) Exsitu Soil Treatment
 - C) Groundwater Treatment
 - D) Groundwater Control/Trenching
 - E) Groundwater Drainage/Trenching
 - F) Rock Trenching
 - G) Earthwork
 - H) Daily Diary/Logbook
 - I) Utility Trenching
- 3) Sampling Procedures
 - A) Sampling
- 4) Training Procedures (Includes Training Forms)
- 5) Audit Procedures

6) References

3.4 TREATABILITY STUDIES

As a leader in geotechnical and environmental construction, CBA has advanced the pursuit of finding material solutions for performance requirements. Often this has meant extensive testing of trial formulations to find acceptable and cost-effective blends of materials to solve specific engineering requirements. Through a working arrangement with independent laboratories, which often use CBA's special treatment and mixing equipment, the company has led the engineering community in new solutions and published a number of technical articles in leading journals, which document methods and successes.

CBA's experience in testing slurry walls, soil mixing, and waste treatment mixtures has led to the development of new applications for cost-effective materials including metals treatment, high temperature heat injection, fly ash, bentonite, chemical mixtures, and many other additives. Normally these services are provided as a part of the work; but, upon request, CBA will work directly for the owner or consultant to solve compatibility and treatment options prior to construction to ensure a successful plan for the work.