

# **TECHNICAL AND COST PROPOSAL**

## **Mine Backfilling Services for the State of Arizona Mine Inspectors Office**

**STATE MINE INSPECTOR**

**DEC 19 2007**

Submitted To:

State Mine Inspectors Office  
C/o  
1700 West Washington Street  
Phoenix, Arizona 85007

Submitted On:

December 18, 2007

## Table of Contents

1.0	OVERVIEW .....	1
2.0	STATEMENT OF WORK.....	2
3.0	KEY PERSONNEL .....	3
4.0	COSTS .....	5
5.0	ATTACHMENTS .....	6

### List of Attachments

Attachment 1: Resumes of Select Key Personnel

## 1.0 Overview

) is a professional environmental, health and safety consulting firm based in Phoenix, Arizona. The firm specializes in the assessment and management of environmental risk and liability. The firm was founded in 1990 on the principle of providing comprehensive, complete value-added services to clients while striving to improve cost-effectiveness and efficiency. The principals, who manage and work on all projects, share in ownership and day-to-day company operations. Personal, practical service tailored for individual projects, technical expertise, as well as timely, thorough interaction with clients are key elements to the way conducts business. The current organizational capacity of should be sufficient for most environmental projects. When part-time/short-term personnel with specific expertise are required (for example, an archaeologist or a lift operator), they will be hired on an on-call, at-will basis.

The bidder employs a well-educated and substantially experienced Project Director staff with over 30 years of experience each in their respective fields. Junior and senior level Environmental Professionals (EPs) offer more than seven years experience, in many cases. has extensive experience conducting small and large projects and considers the ability to provide personal service tailored to the needs of the client to be a strength of the organization. Because the organization is a small family-owned business, it has well-established interpersonal and technological systems for communication. These systems enable project teams to deal with day-to-day operational exigencies efficiently and to respond quickly to identify and resolve critical issues. Because the organization employs seasoned investigators, it has personnel accustomed to traveling and working at remote locations under time and resource constraints.

Time management begins with accurate estimation of time, effort and resources needed for a specific project. The experience of the Principal Managers will be instrumental in providing accurate projections of project schedules. All projects are designed with time metrics that support rapid assessment of slippage or drift. Project Directors track progress towards milestones at regularly scheduled project/productivity evaluations.

Cost containment begins with accurate cost assessment, estimation, and programming prior to offering services/accepting projects. Cost proposals for projects are developed by individuals with the most relevant experience and then vetted through resource, management, and strategic planning teams. All projects are designed with cost metrics that support continual evaluation and feedback on expenditures and productivity. Project Directors track expenditures in parallel with milestones at project/productivity evaluations.

Among the extensive background and broad experience that showcases is a past completed contract located at Charleston Mine. The original scope of work for the Bureau of Land Management required that an abandoned lead mine be filled and leveled with waste and overburden dump and dressed to return to a more native state. The purpose of the work was to eliminate the hazardous risk associated with lead and arsenic that was found at the site. As an addendum to the Request for Proposal, completed a contract to close three abandoned mine shafts on this site for the State Mine Inspectors Office.

## 2.0 Statement of Work

**Locations and Descriptions** – The Statement of Work, as described by the State Mine Inspectors Office, encompasses the backfilling of two mine shafts located in Pinal County, Arizona. Accurate legal descriptions for the mine shafts have not yet been provided to however, that shafts are referred to as follows: one shaft at Florence Junction #1 and one shaft at Florence Junction #2.

The shaft at Florence Junction #1 is approximately 20 to 25 feet deep, and it is estimated that it will take approximately one day to complete. The shaft at Florence Junction #2 is approximately 40 feet deep, and it is estimated that it will take approximately one and one-half days to complete.

**Tasks** – Based on the information provided by the State Mine Inspectors Office, it is the understanding of that there are two mine shafts located in Pinal County, Arizona that need to be backfilled. Both shafts will be identified using GPS. Each project site will be managed using a Health and Safety Plan (HASP) that is custom-tailored for this mine project. Although the size of each mine shaft project is not large enough to require a dust permit, dust control measures will be taken to ensure minimal dust generation. Prior to commencement of work at each mine site, the entire work area will be dust controlled utilizing spray down from a water wagon, which will be kept on-site and utilized for the duration of the project. After each shaft has been backfilled, it will be wheel-rolled to aid in compaction, and dirt will be mounded on the top of the shaft so that any future compaction or settling will not leave a depression on the surface level of the soil.

The HASP will be developed for the site-specific conditions for these mine shaft projects for implementation by the project manager and all on-site staff. The HASP will be OSHA compliant and will include the following: “health and safety policies, key personnel health and safety responsibilities, employee responsibilities, personal protective equipment, standard work practices, medical monitoring, exposure monitoring, health and safety program documentation and the personnel training program.” The HASP will be submitted to the State Mine Inspectors Office for review prior to implementation.

**Reports** - The quoter will supply hardcopy and/or electronic deliverable material, depending on the preference of the State Mine Inspectors Office. Draft reports will be prepared and submitted to the contracting officer for review and approval prior to issuance of final deliverables. Photographs of the site before commencement of work activities, during the activities, and after the completion of activities will be included in the report for visual comparisons and documentation.

**Schedule** - All projects are designed with time matrices that support rapid assessment of slippage or drift. Project Directors track progress towards milestones at regularly scheduled project/productivity evaluations. The bidder anticipates the field work can be completed in approximately three business days. As stated above, the shaft at Florence Junction #1 is estimated to take approximately one day to complete, and the shaft at Florence Junction #2 is estimated to take approximately one and one-half days to complete.

### 3.0 Key Personnel

#### 4.0 Costs

All fees listed in the below table include fully-loaded wage rates for on-site and office personnel. Also included in the fees are the costs of equipment and/or material rental/purchase, copying/reproduction services, and other direct costs including, but not limited to, communication, shipping, mailing, computer usage, and miscellaneous supplies/items. Based on the below costing schedule for completing the work for the two described mine shafts, the average price per shaft is \$:

Field Work	\$
Project Management (20 hours)	\$
HASP and Final Report Preparation	\$
Overhead and Administrative Expenses	\$
<b>Total</b>	<b>\$</b>

## 5.0 Attachments