

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S  
QUALIFICATIONS FOR THIS CONTRACT**

- A. EXAMPLE PROJECT KEY NUMBER: **AML 16 D – Veca Project**
- B. TITLE AND LOCATION (*City and State*): **Gas Hills, Wyoming**
- C. YEAR COMPLETED - PROFESSIONAL SERVICES: **1990**
- D. YEAR COMPLETED - CONSTRUCTION (*If applicable*): **1990**
- 23a. PROJECT OWNER'S INFORMATION - PROJECT OWNER: **Wyoming AML**
- 23b. PROJECT OWNER'S INFORMATION - POINT OF CONTACT NAME: Bill Locke (*Mike Koopman AML Project Officer no longer available*)
- 23c. PROJECT OWNER'S INFORMATION - POINT OF CONTACT TELEPHONE NUMBER: **307 335 6945**
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (*Include scope, size, and cost*): **Follows**
25. FIRMS FROM SECTION INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION ( <i>City and State</i> )	(3) ROLE
<b>BRS Inc.</b>	<b>Riverton, WY</b>	<b>Site Investigation, Design, CM</b>

The Veca Project was similar to the proposed McIntosh pit. In both case the open pits were water filled. In the case of Veca, the mine waters were acidic and required treatment. In the case of McIntosh the water generally meets water quality standards with the exception of a slight elevation of radium 226. During the Veca Project BRS sought opportunities for environmental enhancement including the development of a viable surface water impoundment. The McIntosh Pit Project offers similar opportunities.

The Veca pit and associated mine spoils included over 200 acres of intensely disturbed mined lands. The Veca pit was approximately 240 feet deep and contained acid mine water (pH < 3.0 ). Of the 2.5 million cubic yards of mine waste, over 60% of the material was unsuitable, acid forming and/or radioactive. No topsoil was available at the site. Surface and subsurface investigation of the site by BRS determined that there was suitable “coversoil” for reclamation purposes buried in the mine waste piles, which could be salvaged. The earthwork design restored the ground water aquifer after treating the acidic mine waters by placing suitable granular material within the ground water recovery zone, isolated unsuitable mine waste within a clay barrier (derived from selective handling of mine waste), created a lined surface water impoundment with a native island for raptor habitat, and salvaged over 300,000 cubic yards of suitable plant growth medium for final site reclamation. The project was completed on time and within the budget. The Veca project received the 1992 National Mine Land Reclamation Award for excellence in surface mine reclamation.

**Initial Construction Phase reducing the 200 foot highwall:**



**After Construction:**



Surface water impoundment with island for raptor habitat



**Final reclaimed slopes and surface water impoundment**