

## Capabilities Statement

Founded in 2013, Rhyolite Engineering, Inc. is a WBENC-certified Woman-Owned Small Business Enterprise, consulting firm that provides quality-oriented documentation and engineering support services to contractors. We work collaboratively with technical and non-technical project team members to translate ideas into comprehensive and compelling documents and presentations in compliance with engineering specifications.

### Core Areas of Expertise

- **Technical and Engineering Writing**
  - Proposals, work plans and other deliverables
  - Strategizing and storyboarding the approach
  - Ensuring compliance with specifications
  - Team interviews and collaboration
- **Environmental Permitting and Compliance**
  - Air, SWPPP, NPDES, water use permits
  - P.E. certified Spill Prevention, Control, and Countermeasures (SPCC) plans
- **Project Engineering Support Services**
  - Technical specifications reviews
  - Submittal preparation and tracking
  - Small business subcontracting plans
  - Record & distribute minutes of meetings
- **Estimating and Marketing Services**
  - Strategy Development and Deployment
  - Bid document preparation and delivery
  - Vendor and subcontractor outreach
  - AGTEK earthwork quantity takeoffs
  - Project highlight sheets & corporate brochures

### What Sets Us Apart

- Solid foundation in engineering and regulatory compliance combined with construction, permitting, and quality control experience facilitates effective communications to bridge the gap between engineers and field personnel
- Licensed Professional Engineer (Colorado)
- USACE Construction Quality Management
- Our guiding principle: “We rise by lifting others”

### NAICS Codes

- 541330 Engineering Services
- 541620 Environmental Consulting Services



*USACE Chickamauga Lock Excavation*

### Experience

Rhyolite has performed engineering and construction management services in support of contractors’ projects for a variety of owners including, but not limited to:

- US Army Corps of Engineers
- USDA NRCS
- Colorado Parks and Wildlife
- PA Department of General Services
- Department of Environmental Quality (various states)

### Company Snapshot

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**Rhyolite Engineering, Inc. is always eager to provide support. What challenges may we tackle for you?**

### ***U.S. Army Corps of Engineers: Chickamauga Lock Excavation***



Chickamauga Navigation Lock is owned by the Tennessee Valley Authority and operated by the USACE. Upstream of lock are 318 miles of navigable waterway used to transport materials to and from industries, TVA facilities, and the Department of Energy facilities at Oak Ridge. A concrete aggregate problem causes structural concerns at the existing lock and will result in closure of the lock at some point. The primary feature of work on the project is to excavate rock from within the existing cofferdam in preparation for a new 110-foot by 600-foot replacement lock. Rhyolite prepared post-bid/pre-award bidder qualifications and small business subcontracting plan to help secure the project award. Post-award, Rhyolite performed the permitting scope of work and prepared key submittals including, but not limited to, accident prevention plan, contractor quality control plan, environmental protection plan, emergency action and cofferdam evacuation plans, and all concrete means, methods, and materials submittals and work plans.

*“Rhyolite has supported our various divisions for a few years now and all I can say is great things! Quality of work and timely submissions are a plus.” – Contractor’s Project Transition Team Manager*

### ***Colorado Parks & Wildlife: Willow Creek Dam, 2017 Dam Rehabilitation***

Willow Creek Dam is a high hazard, zoned embankment dam located in Colorado at approximately 8,000 feet in elevation. The dam includes a 550-foot-long, six-foot-diameter, reinforced concrete outlet conduit with an integral reinforced concrete gate tower constructed immediately upstream of the dam crest. Rhyolite collaborated with the prime and key subcontractors on preparation of the Statement of Qualifications (including preliminary project approach), bid preparation, and bid negotiation/value engineering to accommodate CPW’s budget constraints. Post-award, Rhyolite spearheaded permitting, control of water, and key submittals preparation, coordination, and tracking and supported subcontract issuance and administration.



*“I had the pleasure to work with Dawn on a project in Colorado. I can easily say, I relied on her expertise and thoroughness. Always was on top of things and got back to me immediately with the answers. Let’s just say, Dawn was on my speed dial! Definitely knew her stuff, and always on top of every task!” – Contractor’s Project Engineer*

### ***NRCS/Starr County, Texas: Olmitos & Garcias Creeks FRS Site 7 Rehabilitation***



The Texas Flood Retarding Structure (dry dam) project consisted of rehabilitating the existing earthen dam by replacing the principal spillway conduit, installing a roller compacted concrete (RCC) chute auxiliary spillway, excavating the downstream slope and installing a chimney filter/drain, installing soil-bentonite slurry walls in the foundation, raising the embankment crest, and flattening the downstream embankment slope. Rhyolite supported bid preparation, pre-award bidder qualification documentation, permitting – NPDES (Stormwater) and Air (RCC Plant), roller compacted concrete mix design and related materials supply and specification compliance issues, preparation of other key submittals, AGTEK earthwork quantity takeoffs, and other project administration issues (including equitable adjustment research and documentation).

### ***U.S. Army Corps of Engineers: Pine Creek Modification of Dam and Outlet Works***

The major items of work in the rehabilitation of seeping and piping along and into the 13-foot diameter outlet conduit of Oklahoma’s Pine Creek Dam included installing a temporary work platform, a secant pile cutoff wall, new chimney filter, void filler piles, downstream invert filter, and a 550.5-foot long steel conduit liner. Rhyolite collaborated with the prime and key subcontractors to prepare the winning proposal. Award of the Pine Creek project initiated the prime contractor’s strategic expansion westward. Post-award, Rhyolite prepared all permit applications and environmental compliance-related submittals, as well as, the data management, excavation and backfill, traffic control, and various other key work plans.

