

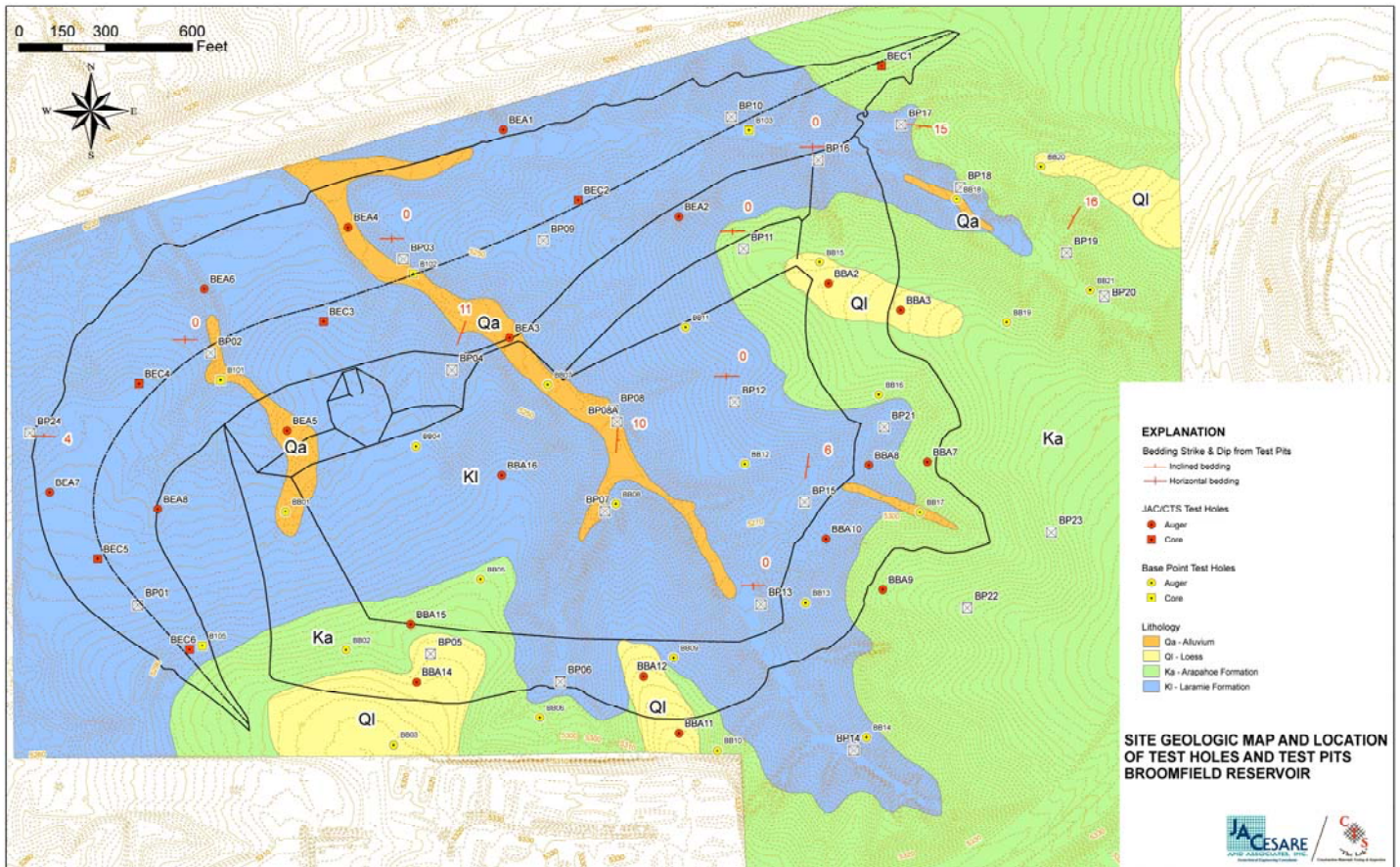
**Client Contact:**  
Mr. Terry Arnold, P.E.  
MWH Americas, Inc.

- Services Provided:**
- Geotechnical Studies
  - Testing
  - Consultation
  - Preliminary Design Review
  - Geotechnical Design Report
  - Geotechnical Recommendations

**Project Summary:**

Cesare, Inc. (Cesare) provided geotechnical studies, testing, and consultation during design of Broomfield Reservoir. The dam is a 90 foot high earth embankment with a 4,470 foot crest length to provide 5,000 acre-feet of raw water storage. The area upstream of the dam provides the borrow material for the embankment which consists of claystone materials of the Laramie Formation. The borrow area will generate about 3,000,000 cubic yards of excess material which will be placed off site.

Cesare conducted preliminary design review of all plans and specifications prior to state submittal and provided the geotechnical design report for the embankment. Cesare also provided geotechnical recommendations for the structures that include a pump station, outlet tower, and over two miles of pipeline.



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