

Fairfax BPU Floodwall Load Test Program

Kansas City, Kansas



Owner: Kansas City Board of Public Utilities (BPU)

Manager: U.S. Army Corps of Engineers

General Contractor: L.G. Barcus and Sons, Inc.

Foundation Contractor: Midwest Foundation Co.

Load Testing Contractor: Applied Foundations Testing, Inc.

Years of Project: 2014

Client Reference: Hank Cunningham
(Berkel—913-612-1100)



Project Highlights:

Dan Brown and Associates (DBA) acted as the load test expert, director, and designer for a floodwall improvement project along the Missouri River in Kansas City, Kansas. DBA designed the construction phase load test program in accordance with the Corps of Engineers' requirements, conducted the load test with the aid of subcontractor Applied Foundations Testing (AFT), and analyzed the test results for the client, Barcus. The load test program included a static axial test, a static lateral test, and a combined static axial and lateral test, as required by Corps of Engineers. All test foundations were 2ft diameter, fully cased drilled shafts. Reaction shafts for the axial load test were 2ft diameter uncased drilled shafts designed by DBA. The lateral and combined test shafts were laterally loaded simultaneously by jacking the two shafts apart.

Despite unique challenges and a tight schedule, DBA was able to meet the client's deadlines and produce a load test plan and load test report that were both accepted by the Corps of Engineers without comment.

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