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## **APPENDIX B**

### Laboratory Tests

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Moisture Content (ASTM D2216) and Unit Weight (ASTM D2937) determinations were performed on selected samples as an aid in the classification and evaluation of soil properties. The test results are presented on the Logs of Borings at the appropriate sample depths.

Four Atterberg Limits tests (ASTM D4318) were performed on selected soil samples to evaluate the liquid and plastic limits. The test results are summarized on the Logs of Borings at the appropriate sample depths. Graphic presentations of the test results are provided on Plate B-1.

Three Sieve Analysis tests (ASTM C117 & C136) were performed on selected soil samples to evaluate the gradation characteristics of the soils and to aid in soil classification. Graphic presentations of the grain size distribution are provided on Plate B-2.

One Direct Shear test (ASTM D3080) was performed on a selected soil sample to evaluate the shear strength characteristics of the material tested. The test results are presented on Plate B-3.

Three Uniaxial Compressive Strength tests (ASTM D7012 Method C) were performed on selected rock cores to evaluate their uniaxial compressive strength of the basalt formation encountered. The test results are presented on Plate B-4.