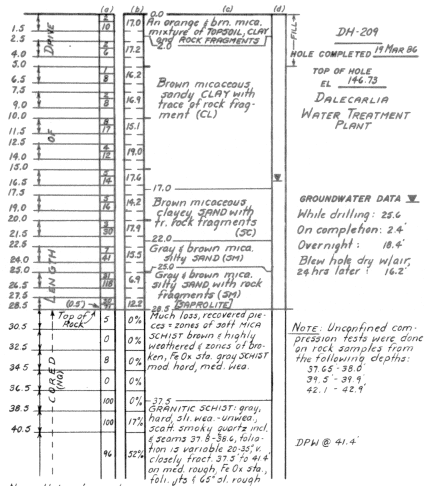
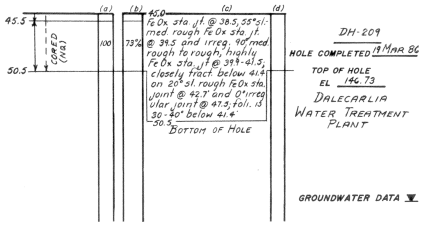



NOTE: Unconfined compression tests were done on rock samples from the following depths:
37.65' - 38.0'
39.5' - 39.9'
42.1' - 42.9'

NOTE: Hole advanced between samples with a 8 5/8" hollow stem auger.

(Cont.)




SUMMARY OF TEST RESULTS

Project - Dalecarlia Water Treatment Plant
Flocculation & Sedimentation Basins 1 & 2
Washington, DC

May 21, 1986

| BORING NO. | DEPTH FT. | ROCK DESCRIPTION | STRESS PSI | SAMPLE LENGTH IN. | CAPPED LENGTH IN. | L/D RATIO | TIME TO FAILURE MIN. | MAXIMUM LOAD LBS. |
|---|---|---|---|---|---|---|---|---|
| 202 | 15.1 - 15.35 | SCHIST, variocolored white & grey streaked & marbled with tan weathering, medium hard, highly to medium weathered, 30 to 40 degree irregular foliation | 800 | 2.09 | 2.25 | 1.12 | 3:03 | 2,400 |
| 202 | 20.0 - 20.9 | GRANITIC SCHIST, grey, hard, unweathered, faint 15 to 25 degree foliation | 17,920 | 4.14 | 4.27 | 2.21 | 14:03 | 49,200 |
| 204 | 17.2 - 17.5 | GRANITIC GNEISS, grey with white & occasionally pink speckles, medium hard, slightly weathered ~30 degree foliation, local iron staining | 7,570 | 2.17 | 2.40 | 1.16 | 10:30 | 22,600 |
| 204 | 19.2 - 19.4 | GRANITIC GNEISS, grey to dark grey, slightly weathered, medium hard, 20 to 40 degree variable foliation | 4,410 | 2.22 | 2.43 | 1.19 | 6:27 | 13,100 |
| 204 | 20.8 - 21.7 | GRANITIC GNEISS, slightly chloritic, grey to slightly green-grey, unweathered, medium hard | 8,370 | 3.24 | 3.42 | 1.73 | 5:19 | 23,400 |
| 204 | 21.2 - 21.7 | CHLORITE SCHIST, green-grey & grey wavy & marbled, slightly weathered to unweathered, medium hard, highly variable 0 to 40 degree foliation | 2,110 | 4.13 | 4.26 | 2.21 | 1:51 | 5,800 |
| 205 | 20.7 - 21.3 | GRANITIC GNEISS, white with tan weathering, hard, medium weathered, light in weight compared to other samples | 2,770 | 4.15 | 4.26 | 2.22 | 3:26 | 7,600 |
| 206 | 15.0 - 15.3 | MICA SCHIST, tan, highly weathered, soft to friable, iron staining | 500 | 2.14 | 2.31 | 1.14 | 3:16 | 1,500 |
| 206 | 16.2 - 17.0 | GRANITIC SCHIST, grey, unweathered, hard, 15 to 25 degree faint foliation | 8,920 | 4.15 | 4.26 | 2.22 | 7:50 | 24,500 |
| 207 | 38.5 - 39.1 | GRANITIC MICA SCHIST, grey with light brown weathered zones, medium hard to hard, low angle faint foliation | 8,740 | 4.14 | 4.31 | 2.21 | 6:55 | 24,000 |
| 207 | 40.5 - 40.85 | Same as 38.5 - 39.1 | 8,250 | 2.71 | 2.90 | 1.45 | 8:39 | 23,700 |
| 207 | 42.9 - 43.3 | GRANITIC MICA SCHIST, grey, medium hard, unweathered low angle foliated | 14,970 | 4.00 | 4.11 | 2.14 | 11:00 | 41,100 |
| 209 | 37.65 - 38.0 | GRANITIC SCHIST, grey hard, slightly weathered to unweathered, 20 to 35 degree variably foliated, occasional green speckle | 8,630 | 3.76 | 3.95 | 2.01 | 7:05 | 23,700 |
| 209 | 39.5 - 39.9 | Same as 37.65 - 38.0 | 9,390 | 4.16 | 4.30 | 2.22 | 6:32 | 25,800 |
| 209 | 42.1 - 42.9 | GRANITIC SCHIST, grey, hard, 20 to 35 degree variably foliated, unweathered, dense | 14,240 | 4.14 | 4.25 | 2.21 | 8:25 | 39,100 |

Nominal diameter 1.87 inches

On those samples with a L/D ratio less than 2.00, the calculated stress has been corrected as outlined in ASTM 2938

FOR INFORMATION ONLY

RECORD DRAWING AS-BUILT
OMNI CONTRACTORS, INC.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | NOV.92 | AS-BUILT | |

US Army Corps of Engineers

U.S. ARMY ENGINEER DISTRICT, BALTIMORE
CORPS OF ENGINEERS
BALTIMORE, MARYLAND

WASHINGTON AQUEDUCT
DALECARLIA WATER TREATMENT PLANT
REPLACEMENT OF FLOC. & SED. BASINS NOS. 1 & 2
SUBSURFACE EXPLORATION
LOGS AND NOTES
CIVIL

DRAWN BY: B.D.O.
TRACED BY: B.D.O.
CHECKED BY: B.D.O.

DRAWING NUMBER 40.8-3.11
PLATE 11

SCALE: NONE
DATE: JUNE 1989
SHEET C-11 of 15