LOG OF BORING Project: Bayport Ship Channel Phase 2 Project No.: HG1019742 Boring No.: 12-65 (Depth of Water = 6.4 feet) Date: 12/6/2012 Elevation (MLT): -3.7 feet Groundwater during drilling: 0 feet Northing: 13,792,677.0 Station: 110+04.53 Groundwater after drilling: ---Easting: 3,239,947.5 Range: -271.76 % PASSING NO. 200 SIEVE / DENSITY PCF ELEV. SOIL SYMBOLS SHEAR STRENGTH, TSF DEPTH, SAMPLER SYMBOLS SOIL/ROCK CLASSIFICATION DRY AND FIELD TEST DATA FEET MOISTURE O CONTENT, % PLASTIC LIMIT | F LIQUID LIMIT 30 40 Medium dense reddish brown SILT WITH SAND (ML) 6-10-12 82 76 Soft to stiff reddish brown FAT CLAY (CH) 96 81 -w/ shells 14'-20' 81 95 98 Very stiff reddish brown LEAN CLAY (CL) 101 5-9-11 Firm to very stiff reddish brown FAT CLAY (CH) 99 LOG OF SOIL BORING HG-10-19742.GPJ HVJ.GDT 3/5/13 83 99 96 = Hand Penet. Shear Types: = Torvane ▲ = Unconf. Comp. * = UU Triaxial See Plate 2 for boring location. PLATE A-7a

HVJ ASSOCIATES

LOG OF BORING Project: Bayport Ship Channel Phase 2 Project No.: HG1019742 Boring No.: 12-65 (Depth of Water = 6.4 feet) Date: 12/6/2012 Elevation (MLT): -3.7 feet Groundwater during drilling: 0 feet Northing: 13,792,677.0 Station: 110+04.53 Groundwater after drilling: ---Easting: 3,239,947.5 Range: -271.76 % PASSING NO. 200 SIEVE / DENSITY PCF ELEV. SOIL SYMBOLS SHEAR STRENGTH, TSF DEPTH, SAMPLER SYMBOLS SOIL/ROCK CLASSIFICATION DRY FEET AND FIELD TEST DATA MOISTURE O CONTENT, % PLASTIC LIMIT | F LIQUID LIMIT Firm to very stiff reddish brown FAT CLAY (CH) 117 -w/ rocks 44'-48' 97 12-20-36 Medium dense to very dense reddish brown SILTY SAND (SM) 41 -w/ rocks 48'-50' -55 34 -60 Stiff reddish brown FAT CLAY (CH) 0 95 -65 LOG OF SOIL BORING HG-10-19742.GPJ HVJ.GDT 3/5/13 ● = Hand Penet. ■ = Torvane \blacktriangle = Unconf. Comp. Shear Types: # = UU Triaxial See Plate 2 for boring location. PLATE A-7b