

## EFA Testing of Sample3A (driven)

Soil type: Moist clay

Vane test: Undrained Shear Strength 22 kPa

Undrained Residual Shear Strength 6.0 kPa

Test data: 04-15-2004

### **Observation during the testing:**

1. Before we began testing the result, to try several different velocities to decide the test range.
2. According to the trial, velocity of testing was 0.7m/s was set. 1mm sample was removed after about one and half an hour.
3. Then velocity was lowed to test 0.5m/s. After several minutes, no scour can be observed.
4. Velocity was increased gradually from 1.0m/s to 1.8m/s, erosion rate increased slowly.
5. When velocity of 1.9m/s was reached, a large clay block was removed suddenly. Then we stop the machine.

Table 1 Shear Stress, Velocity, and Erosion Rate in EFA testing of Sample3A (driven)

Velocity (m/sec)	0.49	0.66	0.93	1.04	1.19	1.31	1.47	1.63	1.85
Shear Stress (Pa)	0.73	1.22	2.20	2.69	3.42	4.06	4.96	5.93	7.35
Erosion Rate (mm/hr)	0.10	0.78	3.54	6.04	15.19	39.45	39.78	69.23	120







