



**MACTEC ENGINEERING AND CONSULTING, INC.**  
 3301 ATLANTIC AVENUE  
 RALEIGH, NORTH CAROLINA 27604

**N.C.D.O.T./AASHTO CLASSIFICATIONS**

**REPORT ON SAMPLES OF: SOILS FOR QUALITY**

**MACTEC PROJECT NAME AND NUMBER:** Currituck and Knotts Island Ferry Basins (6468-03-0470)

**PROJECT:** 36722.1.1 (F-4700)

**COUNTY:** Currituck

**OWNER:** N.C.D.O.T.

**DATE SAMPLED:** Nov.-Dec. 2003

**RECEIVED:** 12/08/03

**REPORTED BY:** MACTEC

**SAMPLED FROM:** EB-2

**SUBMITTED BY:** MACTEC ENGINEERING AND CONSULTING, INC.

**1992 STANDARD SPECIFICATIONS**

**TEST RESULTS**

Lab Sample No.		SS-32	SS-33	SS-34	SS-35		
Retained 4.75 mm Sieve	(%)	7.5	0.0	1.3	2.8		
Passing 2.00 mm Sieve	(%)	91.1	100.0	96.3	92.5		
Passing 425 µm Sieve	(%)	83.0	94.6	61.5	31.2		
Passing 75 µm Sieve	(%)	22.0	2.4	3.8	2.8		

**MINUS 2.00mm FRACTION**

SOIL MORTAR - 100%							
Coarse Sand Ret - 250 µm	(%)	37.9	35.3	65.0	87.1		
Fine Sand Ret - 53 µm	(%)	39.2	62.9	31.9	10.3		
Silt 0.05 - 0.005 mm	(%)	9.0	0.6	0.4	0.9		
Clay < 0.005 mm	(%)	13.9	1.2	2.7	1.7		
		100.0	100.0	100.0	100.0		

Moisture Content	(%)	ND	ND	ND	ND		
Liquid Limit, L.L.		14	10	9	16		
Plasticity Index, P.I.		NP	NP	NP	NP		
AASHTO Classification		A-2-4(0)	A-3	A-3	A-1-b		
Organic Content	(%)	ND	ND	ND	ND		

Boring No.		EB-2	EB-2	EB-2	EB-2		
Station		N/A	N/A	N/A	N/A		
Offset		N/A	N/A	N/A	N/A		
Alignment		N/A	N/A	N/A	N/A		
Depth (ft)	From	0.0	7.4	17.4	32.4		
	to	1.5	8.9	18.9	33.9		

REMARKS: N/A=Not Applicable, ND=Not Determined

Reviewed by: