N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

CATLIN ENGINEERS and SCIENTISTS

SHEET 1 OF 1

PROJECT NO. 6.469002T	**ID.** R-0513C	**COUNTY** Robeson	**GEOLOGIST** Charles Ray
SITE DESCRIPTION Bridge on -Y4- (SR 2413) over -L- (US74)			**GROUND WATER (m)**
BORING NO. EB2-A	**BORING LOCATION** 14+038.5	**OFFSET** 9.0m LT	**ALIGNMENT** -Y4-	**0 HR.** 1.11
COLLAR ELEV. 41.60 m	**NORTHING** 93,154.1	**EASTING** 603,311.0		**24 HR.** 0.46
TOTAL DEPTH 16.57 m	**DRILL MACHINE** D-50	**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Manual	
DATE STARTED 3/28/01	**COMPLETED** 3/28/01	**SURFACE WATER DEPTH** NR		

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	BLOWS PER 30 CM 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
41.60	0.00				GROUND SURFACE				41.60 0.00
40.38	1.22	3	5	7	12		M		Brown., SILTY, fine, moderately sorted SAND. (ROADWAY EMBANKMENT)
39.47	2.13	2	2	5	7		M		40.28 1.32 Gray to tan, SILTY, fine, SANDY, moderately sorted CLAY. DUPLIN FORMATION
37.64	3.96	5	5	4	9		M		39.50 2.10
36.12	5.48	1	1	2	3		Sat.		
34.60	7.00	5	4	5	9		Sat.		Gray to tan, SILTY, fine, moderately sorted SAND. Grades into Tan, gray, red, mottled, SILTY, fine to med., moderately sorted SAND.
33.08	8.52	3	2	1	3		Sat.		
31.56	10.04	4	5	8	13		Sat.		
30.04	11.56	4	4	7	11		M		31.60 10.00 Orange, fine to med., moderately sorted SAND.
28.52	13.08	8	12	14	26		M		30.10 11.50 Gray orange, fine grained SILTY CLAY.
27.00	14.60	10	14	18	32		M		27.10 14.50
25.48	16.12	12	21	29	50		M		Gray, very stiff, CLAYEY, fine to med., SANDY SILT.
		15	19	20	39		M		25.03 16.57 Boring Terminated at Elevation 25.03 m in gray, very stiff, CLAYEY, fine to med., SANDY SILT. Duplin Formation.

NCDOT BORE DOuleLE 201-021.GPJ NC_DOT.GDT 4/27/01

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SHEET 1 OF 1

PROJECT NO. 6.469002T	**ID.** R-0513C	**COUNTY** Robeson	**GEOLOGIST** Charles Ray
SITE DESCRIPTION Bridge on -Y4- (SR 2413) over -L- (US74)			**GROUND WATER (m)**
BORING NO. EB2-B	**BORING LOCATION** 14+030.6	**OFFSET** 12.7m RT	**ALIGNMENT** -Y4-	**0 HR.** 1.22
COLLAR ELEV. 41.57 m	**NORTHING** 93,166.8	**EASTING** 603,291.8		**24 HR.** 1.07
TOTAL DEPTH 16.27 m	**DRILL MACHINE** D-50	**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Manual	
DATE STARTED 3/28/01	**COMPLETED** 3/28/01	**SURFACE WATER DEPTH** NR		

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	BLOWS PER 30 CM 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
41.57	0.00				GROUND SURFACE				41.57 0.00
40.81	0.76	2	7	10	17		M		Brown., SILTY, fine, moderately sorted SAND.
39.74	1.83	2	3	6	9		M		40.66 0.91 (ROADWAY EMBANKMENT)
39.28	2.29	5	8	11	19		M		Gray, soft, silty, fine to med., SANDY, moderately sorted CLAY.
37.91	3.66	6	9	8	17		Sat.		39.77 1.80 DUPLIN FORMATION
36.39	5.18	1	2	2	4		Sat.		
34.87	6.70	4	5	5	10	SS-10	Sat.		Tan, gray, red, orange, mottled, SILTY fine to med., moderately sorted SAND. Grades into a SILTY, very fine SAND and back to a SILTY fine to med., moderately sorted SAND.
33.35	8.22	4	3	3	6		Sat.		34.37 7.20
31.83	9.74	5	8	14	22		Sat.		Orange, fine- med., moderately sorted SAND. Grades into a tan to light gray, fine to med., moderately sorted SAND.
30.31	11.26	5	7	7	14	SS-11	Sat.		30.77 10.80
28.79	12.78	4	7	13	20		M		Gray, orange, medium stiff, SILTY, fine CLAY.
27.27	14.30	9	16	18	34		M		29.07 12.50
25.75	15.82	15	22	25	47		M		Gray, very stiff, CLAYEY SILT w/ med. sand size fragments of qtz. and mica.
		14	18	20	38	SS-12	M		25.30 16.27 Boring Terminated at Elevation 25.30 m in gray, very stiff, CLAYEY SILT w/ med. sand size fragments of qtz. and mica. Duplin Formation.