

Summary of Soil Laboratory Tests

Widening of I-75 from SR7 to SR122, Lowndes County

Project Name: **GDOT Project No.:** **GDOT P.I. No.:** **MAAI Project No.:**

GDOT Project No.: **0000762**

GDOT P.I. No.: **0000762**

MAAI Project No.: **11512**

Sample location:	Ramp A 20+00, 10' Rt	Ramp A 30+00, BL	Ramp A 43+50, BL	Ramp B 54+00, BL	Ramp B 60+00, BL
Sample depth:	2' - 5'	1' - 5'	1' - 3'	5' - 10'	1' - 5'
Lab No.:	4695	4697	4700	4703	4705
Date sampled:	11/8/2013	11/7/2013	11/7/2013	11/4/2013	11/10/2013
Date tested:	12/4/2013	12/9/2013	12/17/2013	11/29/2013	11/29/2013
Soil description:	Grey clayey sand	Tan clayey sand	Grey clayey sand	Red/tan clayey sand	Brown/grey sandy silt
% Passing No. 10:	100.0	100.0	100.0	100.0	100.0
% Passing No. 20:	96.4	97.2	98.7	96.9	96.4
% Passing No. 40:	84.2	86.3	92.7	85.3	87.3
% Passing No. 60:	68.9	71.5	81.6	79.4	74.1
% Passing No. 100:	48.7	49.2	58.5	55.3	54.4
% Passing No. 200:	31.5	29.5	38.4	40.9	34.7
% Clay:	19.4	17.3	25.5	22.5	28.5
D ₅₀ (mm)	0.309	0.283	0.216	0.228	0.259
Total volume change:	4.7	6.4	6.7	8.2	8.3
% Swell:	3.5	5.2	4.7	4.0	3.8
% Shrinkage:	1.2	1.2	2.0	4.2	4.5
Max. Dry Density (pcf):	124.4	124.2	120.4	115.3	117.3
% Optimal Moisture:	9.2	9.3	10.0	8.5	8.7
Liquid Limit:	18	NP			19
Plastic Limit:	16	NP			15
Plasticity Index:	2	NP			4
Erosion index	6.32	6.57	5.46	7.42	6.69
CBR					
Resistivity					
In-situ Moist Content, %	11.8	10.3	8.9	6.8	9.8
Ph					
Organic					
GDOT Class:	IIB2	IIB1	IIB2	IIB2	IIB2

Remarks: GDOT Methods GDT-4, GDT-6, GDT-67

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