FIELD DENSITY TEST REPORT

Report Number: 70211165.0004

Service Date: 09/13/21 **Report Date:** 09/14/21

Soils-Utility Backfill Observations-Testing Task:

Raleigh, NC 27604-3686 919-873-2211 Reg No: F-0869

Client **Project**

Harnett County Schools Attn: Steve Matthews 1008 S. 11th St Lillington, NC 27546

Johnsonville ES Phase 1 18495 NC Highway 27 West

Cameron, NC

			Project Number: 70211165							
Material Information						Lab		est Data	Project Requirements	
Mat. No.	Proctor Ref. No.	Classificatio	on and Dag	avintian		ratory Aethod	Optimum Water Content	Max. Lab Density	Water Content	Compaction
1	70211165.0003	Screenings	on and Des	cription		4 D698	9.8	(pcf) 128.6	(%) 6.8 - 12.8	Min 98
2	70211165.0003	Screenings				1 D698 1 D698	10.0	129.5	5.2 - 13.0	Min 98
Field	Test Data				Probe	Wet	Water	Water	Dry	Percent
Test No.	Test Location		Lift / Elev.	Mat. No.	Depth (in)	Density (pcf)	Content (pcf)	Content (%)	Density (pcf)	Compaction (%)
	Building Pad									
1	Station 0+50 Nor	rth Side	SG	1	6	135.8	6.7	5.2 *	129.1	100
1.1	Station 0+50 North Side1.1		SG	1	6	136.2	8.9	7.0	127.3	99
2	Station 0+50 South Side		SG	1	6	141.4	12.9	10.0	128.5	100
3	Station 0+75 South Side		SG	1	6	140.9	11.0	8.5	129.9	100+
Datum	:							Std. Cnt. M:	750 Std.	Cnt. D: 2434
S/N:	817 Ma	ke: Instrotek			Model:	Xplorer 3	3500	${f L}$	ast Cal. Dat	te: 03/08/2021

Comments: Test and/or retest results on this report meet project requirements as noted above.

Perform in-place density and moisture content tests to determine degree of compaction and material moisture **Services:**

condition.

Terracon Rep.: Danny Vena

Reported To: Harrold at Engineered Construction Company

Contractor: Engineered Construction Company

Report Distribution:

(1) LHC Structural Engineers, Inc., Ben Mielke (1) Harnett County Schools, Steve Matthews

(1) SFLA Architects, Jaclin Wawak

Reviewed By:

Alex Bullard Assistant Project Manager

Test Methods: ASTM D698, ASTM D6938, VTM-1

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

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FIELD DENSITY TESTING REPORT

70211165.0004 **Report Number: Service Date:** 09/13/21

Report Date: 09/14/21

Lillington, NC 27546

Task: Soils-Utility Backfill Observations-Testing

2401 Brentwood Rd Ste 107 Raleigh, NC 27604-3686 919-873-2211 Reg No: F-0869

Client **Project**

Harnett County Schools Johnsonville ES Phase 1 Attn: Steve Matthews 18495 NC Highway 27 West 1008 S. 11th St

Cameron, NC

Project Number: 70211165

Scott Dawson **Services Requested By:**

Earthwork Contractor: East Coast Civil Group

Observed Location(s): Building Pad

Prior to the placement of fill the subgrade was reviewed and consisted of Screenings. The **Subgrade Review:**

subgrade was observed to be firm and stable.

Fill Type Placed: Structural Fill 70211165.0001 **Proctor No.(s): Fill Description:**

Source Of Fill: Imported from Martin Marietta – Lemon Spring Quarry

Screenings

Fill Placement: The fill was observed to be placed in an approximately 12-inch thick lift. Compactive efforts

were applied with a vibratory sheeps foot roller and vibratory smooth-drum roller. The fill

placed appeared firm and stable during the application of compactive efforts.

Field Density Test Results: Field density tests were conducted on the fill placed today utilizing the nuclear method

> (ASTM D6938). 4 field density tests were performed. All test results meet the minimum specified compaction required of 98%. 1 of the test results was out of specification for moisture content but was retested area water was added and found to be within project specifications.. Refer to the attached Field Density Test Summary for individual test data.

Reported To: Harold Scott

Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition. Services:

Terracon Rep.: Danny Vena

Harrold at Engineered Construction Company **Reported To:**

Contractor: Engineered Construction Company

Report Distribution:

(1) Harnett County Schools, Steve

(1) LHC Structural Engineers, Inc., Ben

Mielke

Matthews (1) SFLA Architects, Jaclin Wawak

Reviewed By:

Assistant Project Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials. AF0005, 10-16-13, Rev.6 Page 1 of 1



Johnsonville ES Phase 1	Site Plan: Building pad In-Place Field Density Testing.	
	Report Number: 70211165.0004	liguacon
18495 NC Highway 27 West	Technician: Danny Vena	2401 Brentwood Rd Ste 107
Cameron, NC	Date: 09/13/21	Raleigh, NC 27604-3686
	Scale: Not to Scale	919-873-2211 Reg No: F-0869