

## FIELD DENSITY TESTING REPORT

**Report Number:** 02161442.0250  
**Service Date:** 03/14/17  
**Report Date:** 03/16/17  
**Task:** 01 - Earthwork Testing and Observation

**Terracon**

13910 W 96th Ter  
Lenexa, KS 66215-1228  
913-492-7777

### Client

City of Lee's Summit MO  
Dept of Public Works/Engineering  
Attn: Jeff Thorn  
220 Southeast Green St  
Lee's Summit, MO 64063

### Project

City of Lee's Summit Water Utilities Facility  
1200 SE Hamblen Road  
Lee's Summit, MO

Project Number: 02161442

**Services Requested By:** Casey Williams with Fogel-Anderson Construction

**Observed Location(s):** South Entrance Drive off Hamblen Road

**Fill Type Placed:**

1. Pavement Base
2. Pavement Subgrade Fill

**Proctor No.(s):**

1. 02161442.0252A
2. 02161442.0004

**Fill Description:**

1. Crushed Limestone Base Rock
2. Fat Clay (CH), brown with grayish brown

**Source Of Fill:**

1. Imported from Quarry
2. On-Site Borrow

**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. The test results met the minimum specified 95% compaction requirement as compared to ASTM D698. Refer to the attached Field Density Test Summary for individual test data.

**Reported To:** Casey Williams with Fogel-Anderson Construction

### Services:

**Terracon Rep.:** Jack Kollars

**Reported To:** Casey Williams with Fogel-Anderson

**Contractor:** Fogel-Anderson Construction

### Report Distribution:

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**Reviewed By:**



Andrew Smith

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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## Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data		Project Requirements	
				Optimum Water Content (%)	Max. Lab Density (pcf)	Water Content (%)	Compaction (%)
1	02161442.0252A	Crushed Limestone Base Rock, gray	ASTM D698	9.1	137.2		Min 95
2	02161442.0004	Fat Clay (CH), brown with grayish brown	ASTM D698	22.3	98.5	22.3 - 26.3	Min 95

## Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
South Entrance Drive off Hamblen Road									
1	45 Feet East / 10 Feet North of Light Pole Base	Grade	1	6	142.2	6.6	4.9	135.6	99
2	60 Feet East / 25 Feet North of Light Pole Base	Grade	1	6	144.3	6.3	4.6	138.0	100+
3	12 Feet East / 30 Feet North of South End of Drain Pipe	-6 inches	2	6	125.9	23.2	22.6	102.7	100+
4	12 Feet East / 66 Feet North of South End of Drain Pipe	-6 inches	2	6	122.9	24.7	25.2	98.2	100

Datum: Top of Aggregate Base

Serial No: 15319

Std. Cnt. M: 702

Std. Cnt. D: 1998

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

## Services:

Terracon Rep.: Jack Kollars

Reported To: Casey Williams with Fogel-Anderson Construction

Contractor: Fogel-Anderson Construction

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Reviewed By:

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Test Methods: ASTM D6938

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