



**ENTECH**  
ENGINEERING, INC.

505 ELKTON DRIVE  
COLORADO SPRINGS, CO 80907  
PHONE (719) 531-5599  
FAX (719) 531-5238

November 17, 2017

Classic Communities  
6385 Corporate Drive #200  
Colorado Springs, CO 80919

Attn: Mark Sherwood

Re: Density Testing – Sanitary Sewer  
Forest Lakes, Filing 2B-1  
Colorado Springs, Colorado  
Report No. 3, Tests 54 – 81

Dear Mr. Sherwood,

As requested, personnel of Entech Engineering, Inc. have performed density testing at the above referenced site.

Density testing on this site was performed on November 6 – 9, 2017. The density testing indicates that the materials have been adequately compacted at the depths and in the locations noted. Results of the density tests are enclosed with this letter.

We trust that this has provided you with the information you require. Should you have any questions or need further information, please do not hesitate to contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.

*MH Hauschild*  
Mark H. Hauschild, P.E.  
Senior Engineer

MHH/er

Enclosure

Entech Job No. 171427  
F:\AA projects\2017\171427\171427.2cl3




<b>Client:</b> Classic Communities	<b>Entech Job #:</b> 171427.2	<b>Proctor Value Key:</b> M = modified, ASTM D-1557
<b>Project:</b> Forest Lakes, Filing 2B-1	<b>Tested By:</b> S. Reardanz	S = standard, ASTM D-698
<b>Subject:</b> Sanitary Sewer	<b>Report Date:</b> 11-20-2017	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
54	Service, Long Valley Drive, lot 38, 6' below grade.	11/6/17	97	95	8.7	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
55	Service, Long Valley Drive, lot 38, 4' below grade.	11/6/17	98	95	8.3	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
56	Service, Long Valley Drive, lot 38, 2' below grade.	11/6/17	97	95	9.1	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
57	Service, Long Valley Drive, lot 38, at grade.	11/6/17	97	95	8.6	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
58	Service, Long Valley Drive, lot 6, 6' below grade.	11/7/17	97	95	7.3	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
59	Service, Long Valley Drive, lot 6, 4' below grade.	11/7/17	96	95	7.1	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
60	Service, Long Valley Drive, lot 6, 2' below grade.	11/7/17	95	95	6.5	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
61	Service, Long Valley Drive, lot 6, at grade.	11/7/17	97	95	7.7	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
62	Service, Long Valley Drive, lot 42, 6' below grade.	11/7/17	98	95	8.9	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
63	Service, Long Valley Drive, lot 42, 4' below grade.	11/7/17	96	95	8.3	SM	M - 130.4 @ 8.0	<input type="checkbox"/>

**Comments:**


Scope of Observation: PERIODIC; CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

*All dimensions are approximate. Cl. = Centerline*



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FIELD DENSITY RESULTS



Mark H. Hauschild, P.E.



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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
64	Service, Long Valley Drive, lot 42, 2' below grade.	11/7/17	99	95	8.0	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
65	Service, Long Valley Drive, lot 42, at grade.	11/7/17	98	95	8.1	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
66	Service, Long Valley Drive, lot 7, 6' below grade.	11/8/17	97	95	7.5	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
67	Service, Long Valley Drive, lot 7, 4' below grade.	11/8/17	95	95	7.3	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
68	Service, Long Valley Drive, lot 7, 2' below grade.	11/8/17	97	95	6.9	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
69	Service, Long Valley Drive, lot 7, at grade.	11/8/17	97	95	7.5	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
70	Service, Long Valley Drive, lot 8, 6' below grade.	11/9/17	97	95	6.9	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
71	Service, Long Valley Drive, lot 8, 4' below grade.	11/9/17	97	95	7.3	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
72	Service, Long Valley Drive, lot 8, 2' below grade.	11/9/17	97	95	7.2	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
73	Service, Long Valley Drive, lot 8, at grade.	11/9/17	96	95	6.8	SM	M - 136.1 @ 7.5	<input type="checkbox"/>

**Comments:**

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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
74	Service, Lakes Edge Drive, lot 16, 6' below grade.	11/9/17	96	95	9.5	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
75	Service, Lakes Edge Drive, lot 16, 4' below grade.	11/9/17	96	95	9.3	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
76	Service, Lakes Edge Drive, lot 16, 2' below grade.	11/9/17	98	95	8.9	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
77	Service, Lakes Edge Drive, lot 18, 6' below grade.	11/9/17	97	95	10.0	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
78	Service, Lakes Edge Drive, lot 18, 4' below grade.	11/9/17	96	95	9.7	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
79	Service, Lakes Edge Drive, lot 18, 2' below grade.	11/9/17	98	95	8.9	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
80	Service, Lakes Edge Drive, lot 16, at grade.	11/9/17	96	95	8.6	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
81	Service, Lakes Edge Drive, lot 18, at grade.	11/9/17	98	95	8.7	SM	M - 130.4 @ 8.0	<input type="checkbox"/>

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