



ENTECH
ENGINEERING, INC.

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

Revised November 28, 2017
November 8, 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. 2, Tests 16 – 110

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 October 23 – 26, 30, November 1 – 3, 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,

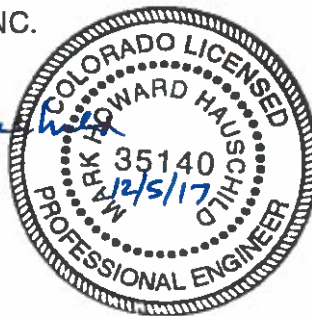
ENTECH ENGINEERING, INC.

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

MHH/er

Enclosure

Entech Job No. 171427
F:\AA projects\2017\171427\171427.2cl2revised




Client: Classic Communities	Entech Job #: 171427.2	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes, Filing 2B-1	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 11-28-2017	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
16	Main, Lakes Edge Drive, station 2 + 50, 4' below grade.	10/23/17	98	95	7.9	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
17	Main, Lakes Edge Drive, station 2 + 75, 2' below grade.	10/23/17	99	95	7.7	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
18	Main, Lakes Edge Drive, station 2 + 50, at grade.	10/23/17	97	95	8.2	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
19	Service, Lakes Edge Drive, lot 13, 6' below grade.	10/23/17	98	95	7.8	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
20	Service, Lakes Edge Drive, lot 13, 4' below grade.	10/23/17	96	95	8.1	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
21	Service, Lakes Edge Drive, lot 13, 2' below grade.	10/23/17	98	95	7.3	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
22	Service, Lakes Edge Drive, lot 13, at grade.	10/23/17	98	95	7.7	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
23	Service, Lakes Edge Drive, lot 14, 8' below grade.	10/23/17	96	95	7.6	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
24	Service, Lakes Edge Drive, lot 14, 6' below grade.	10/23/17	96	95	8.2	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
25	Service, Lakes Edge Drive, lot 14, 4' below grade.	10/23/17	95	95	7.5	SM	M - 136.1 @ 7.5	<input type="checkbox"/>

Comments:

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

All dimensions are approximate. Cl. = Centerline

 <p>ENTECH ENGINEERING, INC. 505 Elkton Drive Colorado Springs, CO 80907 (719) 531-5599 • (719) 531-5238 (fax)</p>	<p>FIELD DENSITY RESULTS</p>	 <p>Mark H. Hauschild, P.E.</p>
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Client: Classic Communities	Entech Job #: 171427.2	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes, Filing 2B-1	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 11-28-2017	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
26	Service, Lakes Edge Drive, lot 14, 2' below grade.	10/23/17	97	95	8.0	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
27	Service, Lakes Edge Drive, lot 14, at grade.	10/23/17	97	95	7.8	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
28	Service, Lakes Edge Drive, lot 12, 8' below grade.	10/23/17	95	95	8.8	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
29	Service, Lakes Edge Drive, lot 12, 6' below grade.	10/23/17	95	95	8.9	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
30	Service, Lakes Edge Drive, lot 12, 4' below grade.	10/23/17	98	95	8.3	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
31	Service, Lakes Edge Drive, lot 12, 2' below grade.	10/23/17	98	95	8.6	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
32	Service, Lakes Edge Drive, lot 12, at grade.	10/23/17	99	95	8.0	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
33	Manhole #3, Long Valley Drive, 10' below grade.	10/24/17	97	95	7.2	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
34	Manhole #3, Long Valley Drive, 8' below grade.	10/24/17	96	95	7.2	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
35	Manhole #3, Long Valley Drive, 6' below grade.	10/24/17	95	95	7.3	SM	M - 136.1 @ 7.5	<input type="checkbox"/>

Comments:

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Client: Classic Communities	Entech Job #: 171427.2	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes, Filing 2B-1	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 11-28-2017	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
36	Manhole #3, Long Valley Drive, 4' below grade.	10/25/17	96	95	7.9	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
37	Manhole #3, Long Valley Drive, 2' below grade.	10/25/17	97	95	8.1	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
38	Manhole #3, Long Valley Drive, at grade.	10/26/17	98	95	7.7	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
39	Main, Long Valley Drive, station 4 + 25, 10' below grade.	10/26/17	97	95	7.6	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
40	Main, Long Valley Drive, station 4 + 15, 8' below grade.	10/26/17	96	95	7.5	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
41	Main, Long Valley Drive, station 4 + 00, 6' below grade.	10/26/17	97	95	7.8	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
42	Main, Long Valley Drive, station 3 + 75, 4' below grade.	10/30/17	99	95	7.4	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
43	Main, Long Valley Drive, station 3 + 90, 2' below grade.	10/30/17	98	95	7.7	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
44	Main, Long Valley Drive, station 3 + 50, at grade.	10/30/17	98	95	7.3	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
45	Service, Long Valley Drive, lot 36, 8' below grade.	11/1/17	96	95	9.3	SM	M - 130.4 @ 8.0	<input type="checkbox"/>

Comments:

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Project: Forest Lakes, Filing 2B-1	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 11-28-2017	T = AASHTO, T-160

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
46	Service, Long Valley Drive, lot 34, 8' below grade.	11/1/17	97	95	9.0	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
47	Service, Long Valley Drive, lot 36, 6' below grade.	11/1/17	96	95	8.3	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
48	Service, Long Valley Drive, lot 34, 6' below grade.	11/1/17	97	95	8.6	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
49	Service, Long Valley Drive, lot 36, 4' below grade.	11/1/17	97	95	9.1	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
50	Service, Long Valley Drive, lot 34, 4' below grade.	11/1/17	98	95	8.8	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
51	Manhole #4, Long Valley Drive, 8' below grade.	11/1/17	96	95	7.5	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
52	Manhole #4, Long Valley Drive, 6' below grade.	11/1/17	97	95	7.7	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
53	Manhole #4, Long Valley Drive, 4' below grade.	11/1/17	97	95	7.1	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
54	Service, Long Valley Drive, lot 36, 2' below grade.	11/2/17	97	95	8.6	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
55	Service, Long Valley Drive, lot 34, 2' below grade.	11/2/17	99	95	9.1	SM	M - 130.4 @ 8.0	<input type="checkbox"/>

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Project: Forest Lakes, Filing 2B-1	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 11-29-2017	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
56	Manhole #4, Long Valley Drive, 2' below grade.	11/2/17	96	95	8.6	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
57	Manhole #4, Long Valley Drive, at grade.	11/2/17	96	95	8.0	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
58	Service, Long Valley Drive, lot 36, at grade.	11/2/17	98	95	9.4	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
59	Service, Long Valley Drive, lot 34, at grade.	11/2/17	98	95	9.3	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
60	Service, Long Valley Drive, lot 35, 8' below grade.	11/3/17	99	95	9.7	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
61	Service, Long Valley Drive, lot 37, 8' below grade.	11/3/17	98	95	8.9	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
62	Service, Long Valley Drive, lot 40, 6' below grade.	11/3/17	97	95	9.6	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
63	Service, Long Valley Drive, lot 35, 6' below grade.	11/3/17	98	95	9.1	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
64	Service, Long Valley Drive, lot 37, 6' below grade.	11/3/17	97	95	9.3	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
65	Service, Long Valley Drive, lot 40, 4' below grade.	11/3/17	96	95	8.7	SM	M - 130.4 @ 8.0	<input type="checkbox"/>

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Project: Forest Lakes, Filing 2B-1	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 11-29-2017	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
66	Service, Long Valley Drive, lot 35, 4' below grade.	11/3/17	97	95	8.1	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
67	Service, Long Valley Drive, lot 37, 4' below grade.	11/3/17	96	95	9.2	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
68	Service, Long Valley Drive, lot 40, 2' below grade.	11/3/17	96	95	8.3	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
69	Service, Long Valley Drive, lot 35, 2' below grade.	11/3/17	100	95	8.6	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
70	Service, Long Valley Drive, lot 37, 2' below grade.	11/3/17	99	95	9.4	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
71	Service, Long Valley Drive, lot 40, at grade.	11/3/17	98	95	8.8	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
72	Service, Long Valley Drive, lot 35, at grade.	11/3/17	97	95	9.1	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
73	Service, Long Valley Drive, lot 37, at grade.	11/3/17	98	95	9.3	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
74	Service, Long Valley Drive, lot 41, 8' below grade.	11/3/17	98	95	9.2	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
75	Service, Long Valley Drive, lot 5, 6' below grade.	11/3/17	97	95	7.4	SM	M - 136.1 @ 7.5	<input type="checkbox"/>

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Client: Classic Communities	Entech Job #: 171427.2	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes, Filing 2B-1	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 11-29-2017	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Proctor Pass/Fail
76	Service, Long Valley Drive, lot 41, 6' below grade.	11/3/17	97	95	9.5	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
77	Service, Long Valley Drive, lot 5, 4' below grade.	11/3/17	95	95	8.1	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
78	Service, Long Valley Drive, lot 41, 4' below grade.	11/3/17	97	95	9.2	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
79	Service, Long Valley Drive, lot 5, 2' below grade.	11/3/17	96	95	7.6	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
80	Service, Long Valley Drive, lot 41, 2' below grade.	11/3/17	97	95	8.8	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
81	Service, Long Valley Drive, lot 5, at grade.	11/3/17	95	95	7.3	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
82	Service, Long Valley Drive, lot 41, at grade.	11/3/17	99	95	8.4	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
83	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"/>
84	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"/>
85	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"/>

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Client: Classic Communities
Project: Forest Lakes, Filing 2B-1
Subject: Sanitary Sewer

Entech Job #: 171427.2
Tested By: S. Reardanz
Report Date: 11-29-2017

Proctor Value Key: M = modified, ASTM D-1557
 S = standard, ASTM D-698
 T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Proctor Pass/Fail
86	Service, Long Valley Drive, lot 38, at grade.	11/6/17	97	95	8.6	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
87	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"/>
88	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"/>
89	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"/>
90	Service, Long Valley Drive, lot 6, at grade.	11/7/17	97	95	7.7	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
91	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"/>
92	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"/>
93	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"/>
94	Service, Long Valley Drive, lot 42, at grade.	11/7/17	98	95	8.1	SM	M - 130.4 @ 8.0	<input type="checkbox"/>
95	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"/>

Comments:

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FIELD DENSITY RESULTS



Mark H. Hauschild, P.E.

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Project: Forest Lakes, Filing 2B-1	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 11-29-2017	T = AASHTO, T-160

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
96	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"/>
97	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"/>
98	Service, Long Valley Drive, lot 7, at grade.	11/8/17	97	95	7.5	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
99	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"/>
100	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"/>
101	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"/>
102	Service, Long Valley Drive, lot 8, at grade.	11/9/17	96	95	6.8	SM	M - 136.1 @ 7.5	<input type="checkbox"/>
103	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"/>
104	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"/>
105	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"/>

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Subject: Sanitary Sewer	Report Date: 11-29-2017	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Proctor	Pass/Fail
106	Service, Lakes Edge Drive, lot 18, 6' below grade.	11/9/17	97	95	10.0	SM	M - 130.4 @ 8.0		<input checked="" type="checkbox"/>
107	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"/>
108	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"/>
109	Service, Lakes Edge Drive, lot 16, at grade.	11/9/17	96	95	8.6	SM	M - 130.4 @ 8.0		<input type="checkbox"/>
110	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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