



**ENTECH**  
ENGINEERING, INC.

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

November 24, 2021

FLRD #6  
2138 Flying Horse Club Drive  
Colorado Springs, CO 80921

Attn: Jim Boulton

Re: Density Testing – Water  
Forest Lakes Residential Development, Filing 6  
Colorado Springs, Colorado  
Report No. 3, Tests 258 – 305

Dear Mr. Boulton,

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

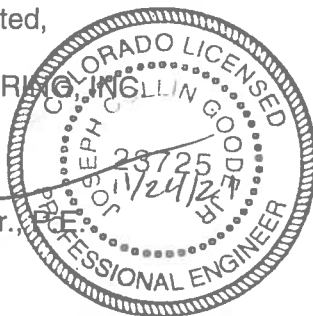
Density testing on this site was performed on November 15, 2021 – November 19, 2021. The density testing indicates that the materials have been adequately compacted at the depths and in the locations noted. Results of the density tests are enclosed with this letter.

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.

  
Joseph C. Goode, Jr.  
President



JCG/kw

Enclosure

Entech Job No. 201326

F:\AA projects\2020\201326-FLRD-Forest Lakes F6-110-ConMat\201326\_3cl3.doc

<b>Client:</b> FLRD #6	<b>Entech Job #:</b> 201326.3	<b>Proctor Value Key:</b> M = modified, ASTM D-1557
<b>Project:</b> Forest Lakes Residential Development, Filing 6	<b>Tested By:</b> J. Claton	S = standard, ASTM D-698
<b>Subject:</b> Water	<b>Report Date:</b> 11-24-2021	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
258	Water Main, Station 17 + 50 on Mesa Top Drive North, 6' below grade.	11/15/21	95	95	7.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
259	Water Main, Station 17 + 50 on Mesa Top Drive North, 4' below grade.	11/15/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
260	Water Main, Station 17 + 50 on Mesa Top Drive North, 2' below grade.	11/15/21	97	95	6.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
261	Water Main, Station 17 + 50 on Mesa Top Drive North, at grade.	11/15/21	97	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
262	Water Main, Station 13 + 00 on Mesa Top Drive North, 6' below grade.	11/15/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
263	Water Main, Station 13 + 00 on Mesa Top Drive North, 4' below grade.	11/15/21	96	95	8.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
264	Water Main, Station 13 + 00 on Mesa Top Drive North, 2' below grade.	11/15/21	96	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
265	Water Main, Station 13 + 00 on Mesa Top Drive North, at grade.	11/15/21	96	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
266	Water Main, Station 12 + 50 on Mesa Top Drive North, 6' below grade.	11/16/21	97	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
267	Water Main, Station 12 + 50 on Mesa Top Drive North, 4' below grade.	11/16/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

**Comments:**

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

All dimensions are approximate. Cl. = Centerline

 <p><b>ENTECH</b> ENGINEERING, INC. 505 Elkton Drive Colorado Springs, CO 80907 (719) 531-5599 • (719) 531-5238 (fax)</p>	<p>FIELD DENSITY RESULTS</p>	<p><i>Joseph C. Goode, Jr., P.E.</i></p>
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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
268	Water Main, Station 12 + 50 on Mesa Top Drive North, 2' below grade.	11/16/21	96	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
269	Water Main, Station 12 + 50 on Mesa Top Drive North, at grade.	11/16/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
270	Water Main, Station 10 + 00 on Mesa Top Drive North, 6' below grade.	11/16/21	95	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
271	Water Main, Station 10 + 00 on Mesa Top Drive North, 4' below grade.	11/16/21	97	95	8.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
272	Water Main, Station 10 + 00 on Mesa Top Drive North, 2' below grade.	11/16/21	97	95	8.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
273	Water Main, Station 10 + 00 on Mesa Top Drive North, at grade.	11/16/21	96	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
274	Water Service to Lot #14 on Mesa Top Drive North, 5' below grade.	11/17/21	96	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
275	Water Service to Lot #14 on Mesa Top Drive North, 3' below grade.	11/17/21	97	95	8.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
276	Water Service to Lot #14 on Mesa Top Drive North, 1' below grade.	11/17/21	97	95	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
277	Water Service to Lot #14 on Mesa Top Drive North, at grade.	11/17/21	96	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
278	Water Service to Lot #26 on Mesa Top Drive North, 5' below grade.	11/17/21	96	95	7.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
279	Water Service to Lot #26 on Mesa Top Drive North, 3' below grade.	11/17/21	96	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
280	Water Service to Lot #26 on Mesa Top Drive North, 1' below grade.	11/17/21	97	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
281	Water Service to Lot #26 on Mesa Top Drive North, at grade.	11/17/21	95	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
282	Water Service to Lot #15 on Mesa Top Drive North, 5' below grade.	11/18/21	97	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
283	Water Service to Lot #15 on Mesa Top Drive North, 3' below grade.	11/18/21	96	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
284	Water Service to Lot #15 on Mesa Top Drive North, 1' below grade.	11/18/21	96	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
285	Water Service to Lot #15 on Mesa Top Drive North, at grade.	11/18/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
286	Water Service to Lot #16 on Mesa Top Drive North, 5' below grade.	11/18/21	97	95	8.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
287	Water Service to Lot #16 on Mesa Top Drive North, 3' below grade.	11/18/21	95	95	9.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
288	Water Service to Lot #16 on Mesa Top Drive North, 1' below grade.	11/18/21	98	95	8.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
289	Water Service to Lot #16 on Mesa Top Drive North, at grade.	11/18/21	95	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
290	Water Service to Lot #17 on Mesa Top Drive North, 6' below grade.	11/18/21	96	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
291	Water Service to Lot #17 on Mesa Top Drive North, 4' below grade.	11/18/21	96	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
292	Water Service to Lot #17 on Mesa Top Drive North, 2' below grade.	11/18/21	95	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
293	Water Service to Lot #17 on Mesa Top Drive North, at grade.	11/18/21	97	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
294	Water Service to Lot #18 on Mesa Top Drive North, 6' below grade.	11/19/21	96	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
295	Water Service to Lot #18 on Mesa Top Drive North, 4' below grade.	11/19/21	97	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
296	Water Service to Lot #18 on Mesa Top Drive North, 2' below grade.	11/19/21	97	95	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
297	Water Service to Lot #18 on Mesa Top Drive North, at grade.	11/19/21	96	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
								☑ = Fail
298	Water Service to Lot #19 on Mesa Top Drive North, 6' below grade.	11/19/21	96	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
299	Water Service to Lot #19 on Mesa Top Drive North, 4' below grade.	11/19/21	96	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
300	Water Service to Lot #19 on Mesa Top Drive North, 2' below grade.	11/19/21	98	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
301	Water Service to Lot #19 on Mesa Top Drive North, at grade.	11/19/21	97	95	8.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
302	Water Service to Lot #20 on Mesa Top Drive North, 6' below grade.	11/19/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
303	Water Service to Lot #20 on Mesa Top Drive North, 4' below grade.	11/19/21	96	95	7.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
304	Water Service to Lot #20 on Mesa Top Drive North, 2' below grade.	11/19/21	96	95	6.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
305	Water Service to Lot #20 on Mesa Top Drive North, at grade.	11/19/21	95	95	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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