



ENTECH
ENGINEERING, INC.

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

September 13, 2016

Classic Communities
6385 Corporate Drive, Suite 200
Colorado Springs, Colorado 80919

Attn: Benny Bustos

Re: Density Testing – Overlot
Forest Lakes, Filing 2, Phase 2B
Colorado Springs, Colorado
Report No. 6, Tests 63 – 88

Dear Mr. Bustos:

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

Density testing on this site was performed on August 18-19, 23-26 and 29, 2016. The density testing indicates that the materials have been adequately compacted at the depths and in the locations noted. Results of the density tests along with the moisture density relation curve 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/cmw

Enclosure

Entech Job No. 152314
F:\AA projects\2015\152314\152314.1.c6

EMAIL



Client: Classic Communities
Project: Forest Lakes, Filing 2, Phase 2B
Subject: Overlot

Entech Job #: 152314.1
Tested By: S. Reardanz
Report Date: 09-07-2016


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	Pass/Fail
63	Channel Island Drive and Lake Mist Drive, 40' west and 15' north of center point of intersection, 5' below grade.	8/18/16	96	95	9.7	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
64	Channel Island Drive and Lake Mist Drive, 120' west and 100' north of center point of intersection, 5' below grade.	8/18/16	97	95	10.8	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
65	Channel Island Drive and Lake Mist Drive, 100' north of center point of intersection, 5' below grade.	8/19/16	99	95	9.3	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
66	Channel Island Drive and Lake Mist Drive, 50' west and 10' north of center of intersection, 3' below grade.	8/19/16	97	95	9.4	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
67	Channel Island Drive and Lake Mist Drive, 100' west and 70' north of center of intersection, 3' below grade.	8/19/16	97	95	9.6	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
68	Channel Island Drive and Lake Mist Drive, 10' west and 120' north of center of intersection, 3' below grade.	8/19/16	98	95	10.1	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
69	Channel Island Drive and Lake Mist Drive, 50' east and 10' north of center point of intersection, 5' below grade.	8/23/16	97	95	9.9	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
70	Channel Island Drive and Lake Mist Drive, 1000' east and 100' north of center point of intersection, 5' below grade.	8/23/16	99	95	9.5	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
71	Channel Island Drive and Lake Mist Drive, 150' east and 60' north of center point of intersection, 5' below grade.	8/23/16	98	95	10.0	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
72	Channel Island Drive and Lake Mist Drive, 150' west and 70' north of center point of intersection, 3' below grade.	8/23/16	97	95	10.3	SM	M - 123.5 @ 10.2	<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.

Client: Classic Communities
Project: Forest Lakes, Filing 2, Phase 2B
Subject: Overlot

Entech Job #: 152314.1
Tested By: S. Reardanz
Report Date: 09-07-2016


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	Pass/Fail
73	Channel Island Drive and Lake Mist Drive, 20' east and 140' north of center point of intersection, 3' below grade.	8/24/16	98	95	10.9	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
74	Channel Island Drive and Lake Mist Drive, 80' east and 30' north of center point of intersection, 3' below grade.	8/24/16	99	95	10.4	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
75	Channel Island Drive and Lake Mist Drive, 140' east and 90' north of center point of intersection, 3' below grade.	8/24/16	97	95	10.2	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
76	Channel Island Drive and Lake Mist Drive, 200' east and 50' north of center point of intersection, 3' below grade.	8/24/16	98	95	10.5	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
77	Channel Island Drive and Lake Mist Drive, 130' west and 20' north of center point of intersection, 1.5' below grade.	8/25/16	98	95	10.6	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
78	Channel Island Drive and Lake Mist Drive, 40' west and 70' north of center point of intersection, 1.5' below grade.	8/25/16	97	95	9.9	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
79	Channel Island Drive and Lake Mist Drive, 10' east and 150' north of center point of intersection, 1.5' below grade.	8/25/16	96	95	10.3	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
80	Channel Island Drive and Lake Mist Drive, 80' east and 120' north of center point of intersection, 1.5' below grade.	8/25/16	98	95	10.1	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
81	Channel Island Drive and Lake Mist Drive, 150' east and 20' north of center point of intersection, 1.5' below grade.	8/25/16	99	95	10.8	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
82	Channel Island Drive and Lake Mist Drive, 220' east and 30' north of center point of intersection, 1.5' below grade.	8/25/16	98	95	10.2	SM	M - 123.5 @ 10.2	<input type="checkbox"/>

Comments:

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FIELD DENSITY RESULTS

Mark H. Hauschild
Mark H. Hauschild, P.E.



Client: Classic Communities	Entech Job #: 152314.1	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes, Filing 2, Phase 2B	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Overlot	Report Date: 09-07-2016	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Proctor Pass/Fail
83	Channel Island Drive and Lake Mist Drive, 20' west of intersection, 1.5' below grade.	8/26/16	97	95	9.8	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
84	Channel Island Drive and Lake Mist Drive, 100' east of intersection, 2' below grade.	8/26/16	98	95	10.3	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
85	Channel Island Drive and Lake Mist Drive, 250' east of intersection, 3.5' below grade.	8/26/16	99	95	9.5	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
86	Channel Island Drive and Lake Mist Drive, 40' west of intersection, at grade.	8/29/16	98	95	10.9	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
87	Channel Island Drive and Lake Mist Drive, 125' east of intersection, at grade.	8/29/16	97	95	10.6	SM	M - 123.5 @ 10.2	<input type="checkbox"/>
88	Channel Island Drive and Lake Mist Drive, 225' east of intersection, 2' below grade.	8/29/16	96	95	11.0	SM	M - 123.5 @ 10.2	<input type="checkbox"/>

Comments:

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

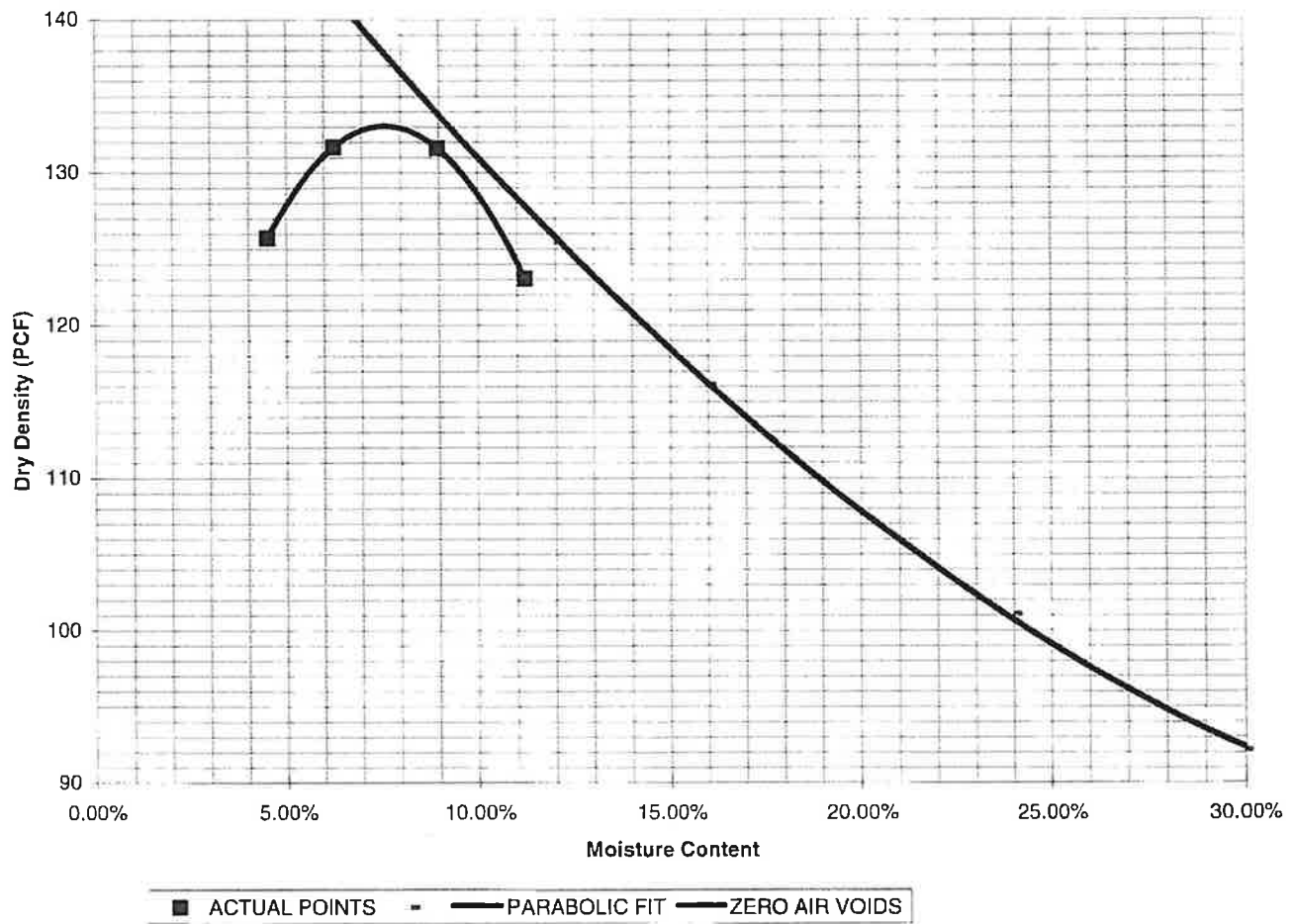
All dimensions are approximate. Cl. = Centerline

 <p>ENTECH ENGINEERING, INC. 505 Elkton Drive Colorado Springs, CO 80907 (719) 531-5599 • (719) 531-5238 (fax)</p>	<p>FIELD DENSITY RESULTS</p>	 Mark H. Hauschild, P.E.
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PROJECT	FOREST LAKES, F-2B	CLIENT	CLASSIC COMMUNITIES
SAMPLE LOCATION	LAKE MIST & CHANNEL ISLAND	JOB NO.	152314
SOIL DESCRIPTION	SAND, CLAYEY, BROWN	DATE	08/31/16

IDENTIFICATION	SC	PROCTOR TEST #	2
TEST DESIGNATION / METHOD	ASTM D-1557-B	TEST BY	MS
MAXIMUM DRY DENSITY (PCF)	132.9	OPTIMUM MOISTURE	7.6%

Compaction Curve



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MOISTURE DENSITY RELATION

DRAWN:

DATE:

CHECKED:

DATE:

JOB NO.:

FIG NO.: